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Primary 6
Examination Papers
2015

Mathematics

1	NAN HUA PRIMARY SCHOOL	CA1	SA1	SA2
2	ROSYTH SCHOOL	CA1	SA1	SA2
3	METHODIST GIRLS' SCHOOL	CA1	SA1	SA2
4	CHIJ ST NICHOLAS GIRLS' SCHOOL	CA1	SA1	SA2
5	RAFFLES GIRLS PRIMARY SCHOOL		SA1	SA2
6	NANYANG PRIMARY SCHOOL		SA1	SA2
7	RED SWASTIKA SCHOOL		SA1	SA2
8	HENRY PARK PRIMARY SCHOOL		SA1	SA2
9	ANGLO CHINESE SCHOOL		SA1	SA2
10	SINGAPORE CHINESE GIRLS' SCHOOL		SA1	SA2
11	TAO NAN SCHOOL		SA1	
12	CATHOLIC HIGH SCHOOL		SA1	SA2
13	MAHA BODHI SCHOOL			SA2
14	TEMASEK PRIMARY SCHOOL			SA2
15	PEI HWA PRESBYTERIAN PRIMARY SCHOOL			SA2
16	PEI CHUN PUBLIC SCHOOL			SA2
17	CHRISTIAN BROTHER'S SCHOOLS			SA2

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NAN HUA PRIMARY SCHOOL
CONTINUAL ASSESSMENT 1 – 2015
PRIMARY 6

MATHEMATICS

Paper 1

Section A: 15 Multiple Choice Questions (20 marks)

Section B: 15 Short Answer Questions (20 marks)

Total Time for Paper 1: 50 minutes

INSTRUCTION TO CANDIDATES

1. **Write your name and index number in the space provided**
2. **Do not turn over the page until you are told to do so.**
3. **Follow all instructions carefully.**
4. **Answer all questions.**
5. **Shade your answers in the Optical Answer Sheet (OAS) provided for Questions 1-15.**
6. **You are not allowed to use calculator for Paper 1.**

Marks Obtained

Paper 1	**Booklet A**		**/ 40**
	Booklet B		
Paper 2			**/ 60**
Total			**/ 100**

Name : _____ ( )

Class : 6_____

Date : 26 February 2015 **Parent's Signature :**_____

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Section A (20marks)

Questions 1 to 10 carry 1 mark each.
Questions 11 to 15 carry 2 marks each.
For each question, four options are given. One of them is the correct answer.
Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

1. $6 \div \frac{1}{3} =$ _____.

(1) $\frac{1}{18}$

(2) 2

(3) $\frac{1}{2}$

(4) 18

2. Express $\frac{6}{8}$ as a percentage.

(1) 20%

(2) 25%

(3) 50%

(4) 75%

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3. $\frac{5}{6} + \frac{3}{4} =$ _____.

(1) $\frac{5}{6} \times \frac{3}{4}$

(2) $\frac{5}{6} \times \frac{4}{3}$

(3) $\frac{6}{5} \times \frac{3}{4}$

(4) $\frac{6}{5} \times \frac{4}{3}$

4. The mass of block A is $\frac{4}{3}$ of the mass of block B. What is the ratio of the mass of block B to the total masses of block A and block B?

(1) 3 : 4

(2) 4 : 3

(3) 3 : 7

(4) 7 : 3

5. There are 10 boys and 40 girls in the library.
What fraction of the children are girls?

(1) $\frac{1}{5}$

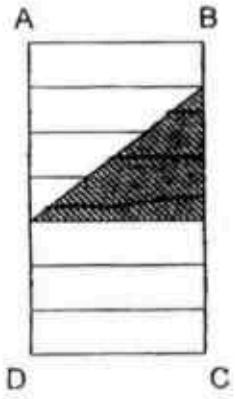
(2) $\frac{1}{4}$

(3) $\frac{3}{4}$

(4) $\frac{4}{5}$

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6. Rectangle ABCD is made up of 7 identical small rectangles.
What fraction of the rectangle ABCD is shaded?



(1) $\frac{3}{7}$

(2) $\frac{4}{7}$

(3) $\frac{3}{14}$

(4) $\frac{11}{14}$

7. Kit and Daniel shared 90 sweets in the ratio 2 : 3 respectively.
How many **more** sweets did Daniel have than Kit?

(1) 18

(2) 36

(3) 54

(4) 60

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8. The length of square X is 4 times the length of square Y. What is the ratio of the area of square X to the area of square Y?

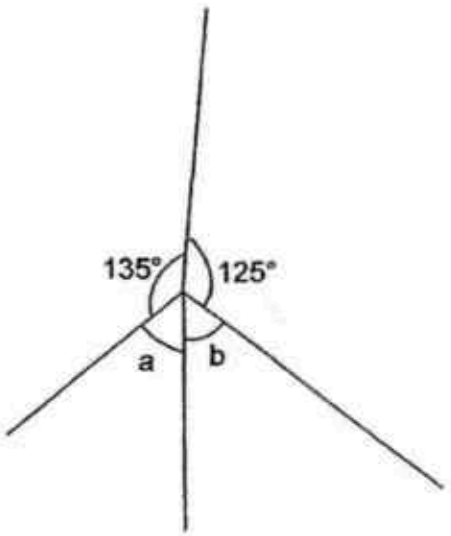
(1) 1 : 4

(2) 4 : 1

(3) 1 : 16

(4) 16 : 1

9. The figure below is not drawn to scale. If $\angle a = \angle b$, find $\angle a$.



(1) 45°

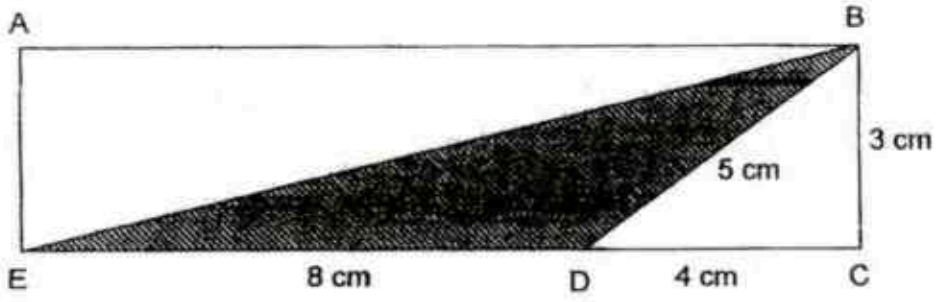
(2) 50°

(3) 55°

(4) 100°

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10. The figure below shows a rectangle ABCE. ED = 8 cm, DC = 4 cm, BD = 5 cm and BC = 3 cm. What is the area of the shaded triangle BDE? The figure below is not drawn to scale.



(1) 40 cm^2

(2) 24 cm^2

(3) 20 cm^2

(4) 12 cm^2

11. Given that 30 : 45 = 20 : ☐, what is the missing number in the box?

(1) 10

(2) 15

(3) 25

(4) 30

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12. The ratio of the number of apples to the number of mangoes to the number of oranges is 7 : 6 : 4. If there are 828 more apples than oranges, how many mangoes are there?

(1) 1 656

(2) 2 484

(3) 3 312

(4) 4 692

13. Aaron shared a sum of money equally with 4 friends, Bala, Carapa, Devi and Esther. After receiving his share, Carapa spent $49.90 and had $23.60 left. Find the sum of money.

(1) $94.40

(2) $118

(3) $294

(4) $367.50

14. Tom and Jerry shared a box of marbles. When Jerry gave some marbles to Tom, Tom's share increased from 120 to 360 marbles. As a result, the number of Jerry's marbles decreased by 20%. How many marbles did Jerry have at first?

(1) 1 200

(2) 1 440

(3) 1 560

(4) 1 800

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15. Each side of a square is increased by 20%.
What is the percentage increase in its area?

(1) 20%

(2) 40%

(3) 44%

(4) 80%

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Section B (20 marks)

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. [10 marks]

Do not write in this space

16. If A is twice of B and B is twice of C, what is the ratio of C to A?

Ans: _____

17. How many quarters are there in 5 wholes?

Ans: _____

18. If 30% of a number is 60, find the number.

Ans: _____

19. Aza and Bala had an equal number of stickers at first. Bala gave $\frac{2}{5}$ of his stickers to Aza. What was the ratio of Aza's stickers to Bala's stickers in the end?

Ans: _____

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Do not write in this space

20. Dora had some cloth. She cut it into 45 equal pieces, each measuring $\frac{4}{5}$ m and had $\frac{3}{5}$ m as leftover . What was the length of the cloth at first? (Give your answer as a mixed number in the simplest form.)

Ans: _____ m

21. Sophie flipped to the centre of a storybook and added the two page numbers to get 127. What are the two page numbers?

Ans: _____ and _____

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22. The number of girls to the number of boys at the party is 2 : 3. If there are 75 boys, how many children are there at the party?

Do not write in this space

Ans: _____

23. At a concert, the ratio of the number of adults to the number of children was 5 : 8. The ratio of the number of men to the number of women was 3 : 2. What was the ratio of the number of men to the number of children?

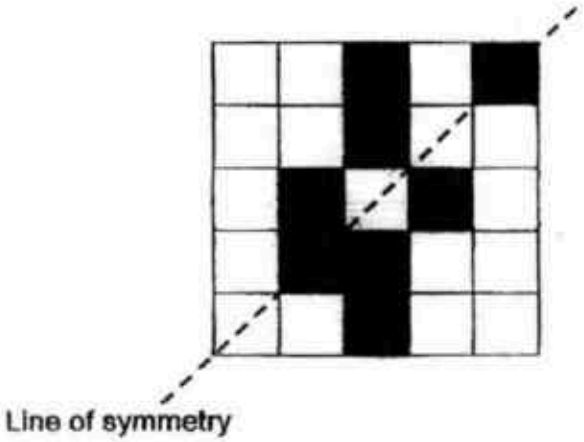
Ans: _____

24. For every $60 spent at a supermarket, customers get 2 bonus points. Peter needs 16 bonus points to redeem a frying pan. What is the least amount he must spend to get the frying pan?

Ans: $_____

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25. In the figure below, complete the symmetric figure by **shading** 2 more squares, with the dotted line as a line of symmetry.



Do not write in this space

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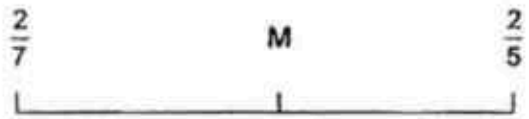
Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For each questions which require units, give your answers in the units stated. [10 marks]

Do not write in this space

26. A container had $\frac{5}{8}\ell$ of water. $\frac{2}{5}$ of the water was poured equally into 5 cups. How much water was there in each cup?
(Give your answer as a fraction in the simplest form.)

Ans: _____ ℓ

27. Look at the number line below.



M is exactly half of $\frac{2}{7}$ and $\frac{2}{5}$.
What is the value of M?
(Give your answer as a fraction in the simplest form.)

Ans : _____

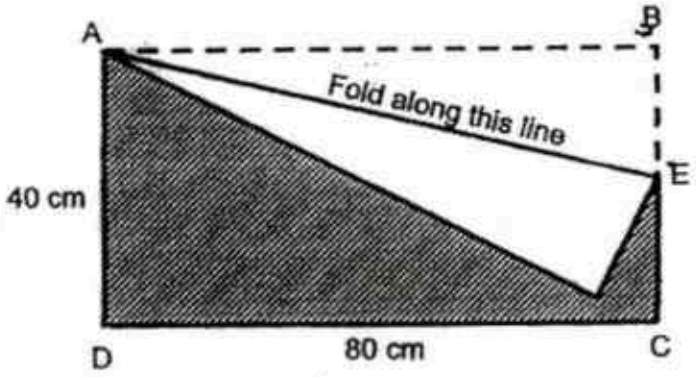
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Do not write in this space

28. A wheel takes $\frac{1}{5}$ min to make a complete revolution. How many revolutions will it make in $\frac{1}{2}$ h?

Ans : _____

29. The figure ABCD below shows a rectangular piece of paper.
The paper is folded along the line AE where BE = EC.
Find the area of the shaded part.
The figure is not drawn to scale.

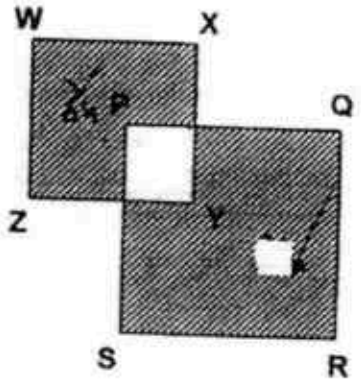


Ans : _____ cm^2

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Do not write in this space

30. In the figure below not drawn to scale, $\frac{3}{5}$ of Square WXYZ and $\frac{8}{9}$ of Square PQRS are shaded. Find the ratio of the shaded area of Square WXYZ to the shaded area of Square PQRS.



Ans: _____

END OF PAPER

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NAN HUA PRIMARY SCHOOL
CONTINUAL ASSESSMENT 1 – 2015
PRIMARY 6

MATHEMATICS

Paper 2

Total Time for Paper 2: 1 hour 40 minutes

5 Short Answer Questions (10 marks)

13 Structured / Long Answer Questions (50 marks)

INSTRUCTION TO CANDIDATES

1. Write your name and index number in the space provided.
2. Do not turn over the page until you are told to do so.
3. Follow all instructions carefully
4. Answer all questions and show your workings clearly.
5. You are allowed to use a calculator.

Marks Obtained

Total		/ 60

Name : _____ ( )

Class : 6_ _____

Date : 26 February 2015 Parent's Signature :_____

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Paper 2 (60 marks)

Questions 1 to 5 carry 2 marks each. Show your workings clearly in the space below it and write your answer in the space provided. Give your answers in the units stated.

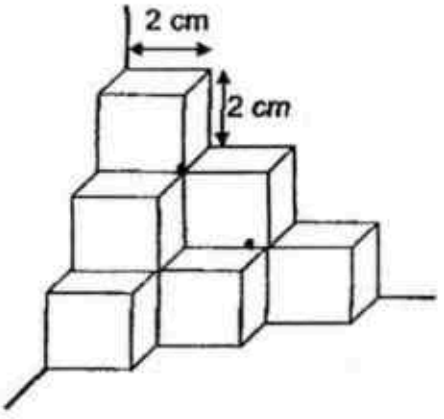
Do not write in this space

1. Belle paid $749 for a handbag below inclusive of 7% GST.
   What was the price of the handbag before GST?



Ans: $ _____

2. The solid below is made up of identical 2-cm cubes.
   What is the volume of the solid below?



Ans: _____ cm^3

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3. $\frac{17}{24}$ m of ribbon is cut into as many shorter pieces. Each of the shorter pieces must measure $\frac{1}{8}$ m.
What is the length of the remaining piece of the ribbon?
(Give your answer as a fraction in the simplest form.)

Do not write in this space

Ans : _____ m

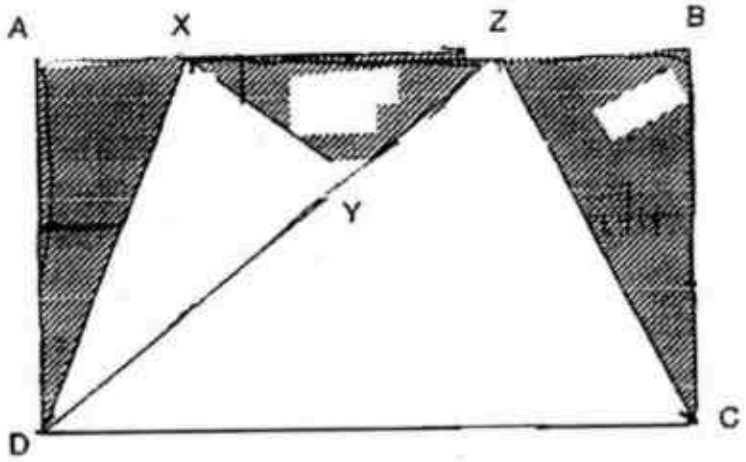
4. Daisy is 28 years younger than her father. Her father's age will be 3 times her age in 4 years' time. How old is her father now?

Ans: _____ years old

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5. The area of the rectangle ABCD below is 200 cm^2. Given that the area of triangle XYD is 40 cm^2, what percentage of the figure ABCD is shaded?

Do not write in this space



Ans : _____%

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For each question from 6 to 18, **show your workings clearly in the space below** it and **write your answer in the space provided**. The number of marks available is shown in brackets [ ] at the end of each question or part-question.
Remember to include the units wherever possible.

6. Joe, Alex and Sean shared some stamps in the ratio 3 : 6 : 5. Sean kept $\frac{1}{5}$ of his stamps for himself and gave the rest of his stamps to Joe and Alex in the ratio 3 : 5. As a result, Alex had 96 stamps more than Joe. How many stamps did Joe have in the end?

Do not write in this space

Ans: _____ [3]

7. Mickey had a number of books for sale. He sold a total of 418 books on Saturday and Sunday. On Monday, he sold $\frac{1}{4}$ of the remainder. He was left with 18 % of the books he had at first. How many books did he have at first?

Ans: _____ [3]

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8. Mdm Siti has some cupcakes. She wants to give them to her pupils. If she gives 3 cupcakes to each of her pupils, she will have 12 cupcakes left. If she gives 5 cupcakes to each of her pupils, she will need 18 more cupcakes. How many pupils are there?

Do not write in this space

Ans: _____ [3]

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9. Melody paid $180 for 8 similar bags and 6 similar T-shirts. A bag cost 3 times as much as a T-shirt. Find the price of 2 such bags and 2 such T-shirts.

Do not write in this space

Ans: _____ [3]

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10. Donald bought 20 stamps. Some were 50-cent stamps and the rest were 40-cent stamps. The total cost of all the 50-cent stamps and 40-cent stamps is $9.30. How many 50-cent stamps did he buy?

Do not write in this space

Ans: _____ [3]

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11. A cone is placed at every $\frac{2}{5}$ km of a road which measures 10 km.
A cone is also placed at the start of the road.

(a) How many cones are there altogether on the road?

(b) Alice decides to walk from the second cone to the fifth cone.
What is the total distance that she has covered?

Do not write in this space

Ans: (a)_____ [1]

(b)_____ [2]

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12. Anna does not have enough savings now to buy a sweater. If Anna increases her savings by 20%, she would still need another $25. If Anna increases her savings by 45%, she would have $30 more than she needs. How much more money does she need to buy the sweater?

Do not write in this space

Ans: _____ [4]

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13. Hannah and Noah had $920 altogether. Hannah gave 25% of her money to her mother and Noah donated 60% of his money to charity. Then they had an equal amount of money left.

(a) How much money had Noah at first?

(b) How much money did Hannah give to her mother?

Do not write in this space

Ans: (a) _____ [2]

(b) _____ [2]

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14. At the school charity fair, some pupils prepared some stationery as prizes for their games stall. Each eraser cost $2, which was $\frac{1}{2}$ of the cost of each notebook. The ratio of the number of the erasers to the number of notebooks was 5 : 3. A total of $1 980 was collected after the charity fair. How many more erasers than notebooks are there?

Do not write in this space

Ans: _____ [4]

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Do not write in this space

15. Alvin, Theodore and Simon shared a tin of cookies. Alvin took $\frac{2}{3}$ of the tin of cookies and 5 cookies. Theodore took $\frac{2}{3}$ of the remaining tin of cookies and 5 cookies. Simon received only 2 cookies. How many cookies did Alvin have?

Ans: _____ [5]

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16. The usual price of a television set is 25% that of a computer. During a sale, Simba bought one television set and one computer at a discount of 30% on each item. He paid a total of $2 590 for them. How much did he save on the computer?

Do not write in this space

Ans: _____ [5]

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17. Charlie had some red and blue marbles in a box. The sum of $\frac{1}{4}$ of the red marbles and $\frac{2}{5}$ of the blue marbles in the box is 64. The sum of $\frac{3}{4}$ of the red marbles and $\frac{3}{5}$ of the blue marbles in the box is 120.

(a) How many marbles are there in the box altogether?

(b) How many blue marbles are there in the box?

Do not write in this space

Ans: (a) _____ [2]

(b) _____ [3]

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18. Adam and Lynn had some pencils in a box in the ratio of 9 : 4. Adam sold 12 pencils and Lynn bought another 18 pencils. Then, Adam had $\frac{1}{2}$ as many pencils as Lynn. How many pencils were there in the box at first?

Do not write in this space

Ans: _____ [5]

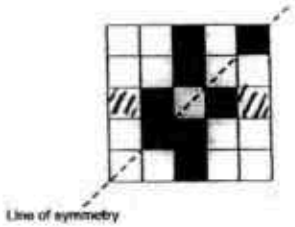
End-of-Paper

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NAN HUA PRIMARY SCHOOL
CA 1 2015
PRIMARY 6 MATHEMATICS

Paper 1

1) 4 2) 4 3) 2 4) 3 5) 4 6) 3 7) 1 8) 4
9) 2 10) 4 11) 4 12) 1 13) 4 14) 1 15) 3
16) A : B : C
2 : 1
2 : 1
---
4 : 2 : 1
Ans : 1: 4
17) 20
18) 30% – 60
100% – 100/30 x 60 = 200
19) 7 : 3
20) 36/3/5 m
21) 127-1 = 126
126÷2 = 63
63+1 = 64
Ans : 63 & 64
22) 75÷3x5 = 125
23) 3 : 8
24) 16÷2 = 8
8x60 = $480
25)



26) 2/5x5/8 = 1/4
1/4÷5 = 1/4x1/5 = 1/20 litres.
27) 1/2x(2/7+2/5) = 12/35
28) 1/2x60÷1/5 = 150
29) 80x40 = 3200
1/2x80x20x2 = 1600
3200-1600 = 1600 sq cm
30) Shaded WXYZ : unshaded area : Shaded PQRS
3 : 2
1 : 8
---
3 : 2 : 16
Ans : 3 : 16

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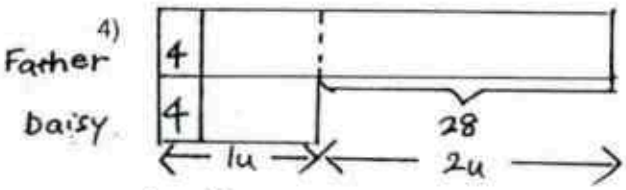
Paper 2

1) 749÷107x100 = $700

2) 2x2x2x10 = 80 cubic cm

3) 17/24÷1/8 = 17/3 = 5 R2
17/24-5/8 = 1/12 m

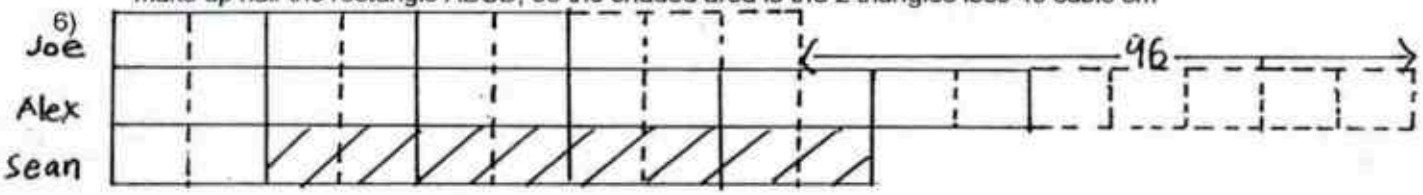
4)



2u – 28
3u – 3/2x28 = 42
42-4 = 38 years old

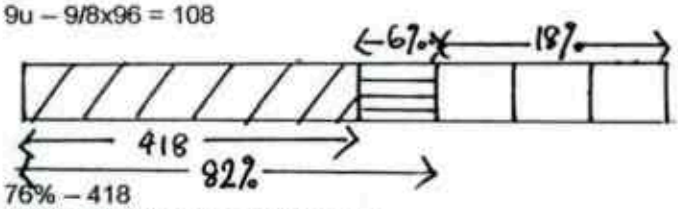
5) 200÷2 = 100
100-40 = 60
60/200x100% = 30%
NB: Triangle ZBC is half of a rectangle, Triangle ADZ is half of another rectangle, hence the 2 triangles make up half the rectangle ABCD, so the shaded area is the 2 triangles less 40 cubic cm

6)



8u – 96
9u – 9/8x96 = 108

7)



76% – 418
100% –100/76x418 = 550 books

8) 12+18 = 30
30 ÷ (5-3) = 15 pupils

9) 8x3 = 24
24+6 = 30
180÷30 = 6
6+2 = 8
6x8 = $48

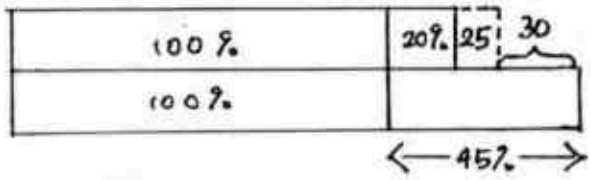
10) Assume all are 40c stamps
20x$0.40 = $8
$9.30-$8 = $1.30
$0.50-$0.40 = $0.10
$1.30÷$0.10 = 13

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11a) 10÷2/5 = 25
25+1 = 26

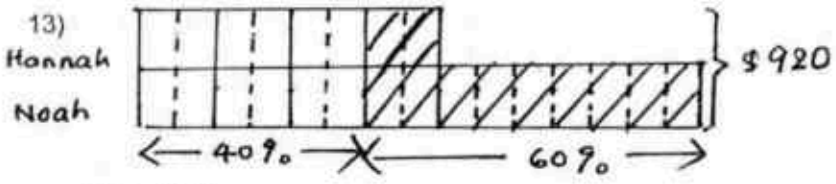
b) 5-2 = 3
3x2/5 = 6/5 = 1.2 km

12)



25% – $55
20% – 20/25x$55 = $44
$44+$25 =$69

13)



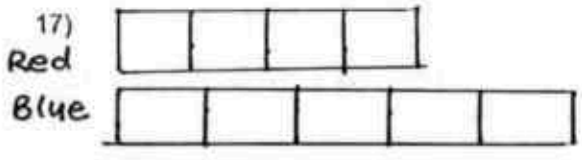
23u – $920
15u – 15/23x$920 = $600
2u – 2/23x$920 = $80

14) 2x2 = 4
5x2 = 10
3x4 = 12
10+12 = 22
1980÷22 = 90
90x5 =450
90x3 = 270
450-270 = 180

15) 2+5 = 7
7x3 = 21
21+5 =26
26x2 =52
52+5 = 57

16) 70% – $2590
100% – 100/70x2590 = $3700
3700÷5x4 = $2960
2590÷5x4 = $2072
$2960-$2072 = $888

17)

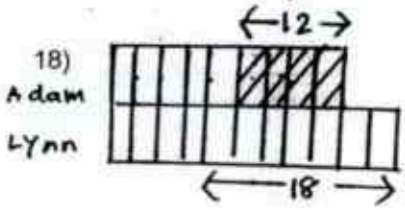


a) 1R+2B = 64
3R+3B = 120
4R+5B = 64+120 = 184

b) 3R+6B =64x3 = 192
3B = 192-120 = 72
5B = 72÷3x5 = 120

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18)



6u -- 18
13u -- 13/6x18 = 39

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Rosyth School
First Continual Assessment 2015
Primary 6 Mathematics

Name: _____ Register No. _____

Class: Pr 6 - _____

Date: 27th February 2015 Parent's Signature: _____

Total Time for Booklets A and B : 50 minutes

PAPER 1
(Booklet A)

Instructions to Pupils:

1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. Shade your answers in the Optical Answer Sheet (OAS) provided.
4. You are **not** allowed to use a calculator.
5. Answer all questions.

Section	Maximum Mark	Marks Obtained
Paper 1 (Booklet A)	20	

* This booklet consists of 8 pages (including this cover page)

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Questions **1** to **10** carry 1 mark each. Questions **11** to **15** carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet. **All diagrams are not drawn to scale unless stated otherwise.**

(20 marks)

---

1. Simplify $15p + 9 - 2 - 2p \times 4$.

(1) $7p + 7$

(2) $7p - 11$

(3) $13p - 17$

(4) $52p + 7$

Find the value of $\frac{3}{8} + 6$.

(1) $\frac{1}{16}$

(2) $\frac{4}{9}$

(3) $\frac{9}{4}$

(4) 16

3. 20% of the pupils in a class are girls and the rest are boys. What is the ratio of the number of girls to the number of boys?

(1) 1 : 4

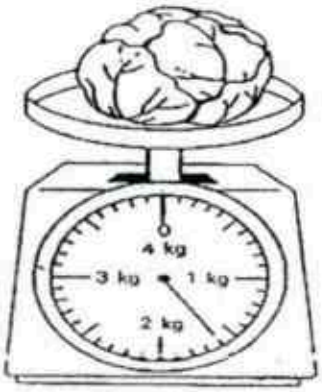
(2) 1 : 5

(3) 4 : 1

(4) 5 : 1

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4. The figure shows a weighing scale. What is the mass of the cabbage?



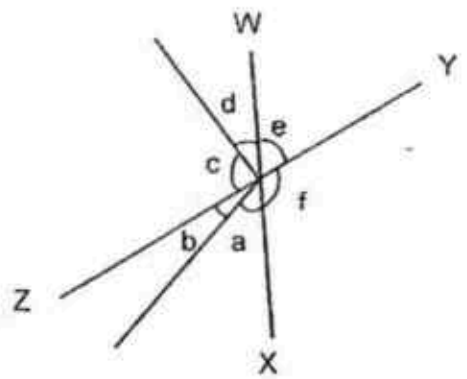
(1) 600 g

(2) 1 kg 60 g

(3) 1 kg 600 g

(4) 2 kg 400 g

5. In the diagram below, WX and YZ are straight lines.
Which of the following is correct?



(1) $\angle a = \angle e$

(2) $\angle b = \angle d$

(3) $\angle e = \angle a + \angle b$

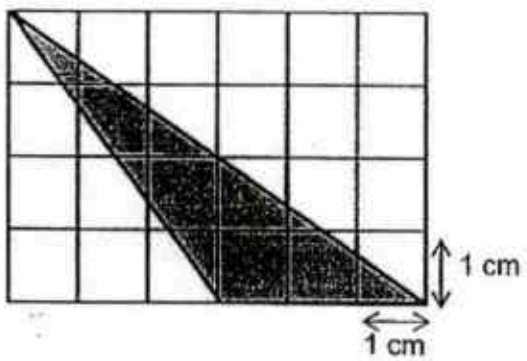
(4) $\angle f = \angle b + \angle c$

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6. Express 1.03 as a percentage.

(1) 0.103%
(2) 1.03%
(3) 10.3%
(4) 103%

7. The diagram below is not drawn to scale. Calculate the area of the shaded triangle.



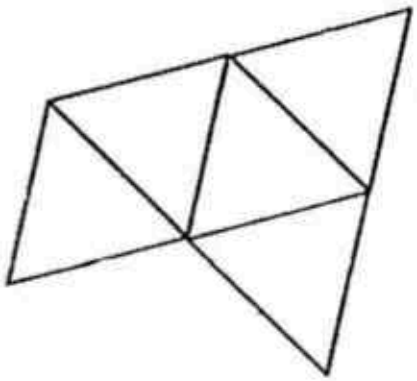
(1) 3 cm^2
(2) 6 cm^2
(3) 12 cm^2
(4) 24 cm^2

8. John had a meal at a restaurant. The total bill was $330 which included a 10% service charge. What was the original cost of the meal?

(1) $33
(2) $297
(3) $300
(4) $363

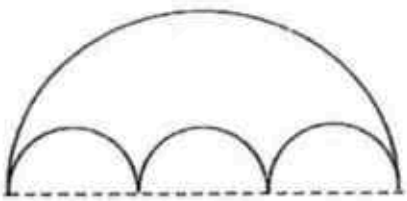
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9. The figure below is made up of 5 equilateral triangles. The length of each side of the equilateral triangles is 7 cm. Find the perimeter of the figure.



(1) 21 cm
(2) 35 cm
(3) 49 cm
(4) 55 cm

10. The figure below is made up of a big semicircle and three identical small semicircles. What is the perimeter of the figure if the radius of the big semicircle is 14 cm? (Take $\pi = \frac{22}{7}$)



(1) 22 cm
(2) 44 cm
(3) 72 cm
(4) 88 cm

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11. The table below shows the number of pets owned by a class of pupils. If the total number of pets owned by the pupils is 38, how many pupils owned 2 pets?

Number of pets	0	1	2	3	4
Number of pupils	16	18	?	2	1

(1) 1
(2) 5
(3) 10
(4) 17

12. In a primary school, $\frac{1}{4}$ of the pupils take public transport to school. Of the pupils who take public transport to school, $\frac{1}{3}$ of them take the SBS buses and the rest take the MRT. What fraction of the total number of pupils takes the MRT to school?

(1) $\frac{1}{12}$
(2) $\frac{1}{6}$
(3) $\frac{1}{4}$
(4) $\frac{3}{4}$

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13. The ratio of the number of red marbles to the number of green marbles that Ben had was 5: 2. After he bought another 15 red marbles, the ratio of the number of red marbles to the number of green marbles became 4 : 1. How many more red marbles than green marbles did Ben have in the end?

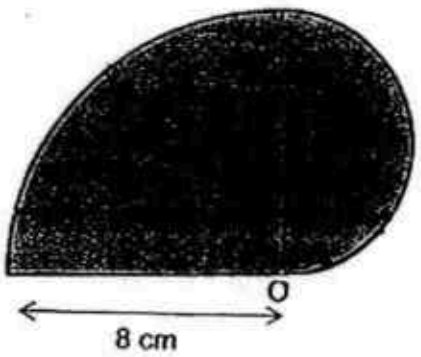
(1) 19
(2) 20
(3) 30
(4) 60

14. There were 4 more girls than boys in a Music class. Mrs Kumar gave each girl 4 pencils and each boy 6 pencils. A total of 116 pencils were given to the children. How many girls were there in the class?

(1) 10
(2) 13
(3) 14
(4) 29

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15. The figure below is made up of a semi-circle and a quadrant. O is the centre of the quadrant of radius 8 cm. What is the perimeter of the figure?
Give your answer in terms of π.



(1) 8π cm

(2) 12π cm

(3) $(8\pi + 8)$ cm

(4) $(12\pi + 8)$ cm

End of Booklet A

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Rosyth School
First Continual Assessment 2015
Primary 6 Mathematics

Name: _____ Register No. _____

Class: Pr 6 - _____

Date: 27th February 2015 Parent's Signature: _____

Total Time for Booklets A and B : 50 minutes

PAPER 1
(Booklet B)

Instructions to Pupils:

1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. Shade your answers in the Optical Answer Sheet (OAS) provided.
4. You are **not** allowed to use a calculator.
5. Answer all questions.

Section	Maximum Mark	Marks Obtained
Paper 1 (Booklet B)	20	

* This booklet consists of 8 pages (including this cover page)

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Questions **16** to **25** carry **1** mark each. Write your answers in the spaces provided.

For questions which require units, give your answers in the units stated.

All diagrams are not drawn to scale unless stated otherwise.

(10 marks)

---

16. Arrange the following values from the smallest to the largest:

$\frac{14}{10}$, $\frac{1}{4}$, 1.08 , 0.45

_____ , _____ , _____ , _____

smallest

17. Madam Fatimah used 5 apples to bake 7 cakes. How many apples did she use to make 14 cakes?

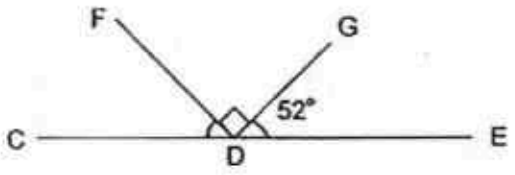
Ans: _____

18. Express 35% as a fraction. Express your answer in the simplest form.

Ans: _____

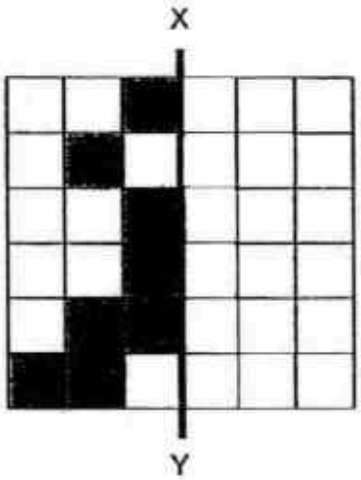
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19. CDE is a straight line. Find ∠CDF.



Ans: _____ °

20. XY is the line of symmetry. Shade the correct squares to make a symmetric figure.

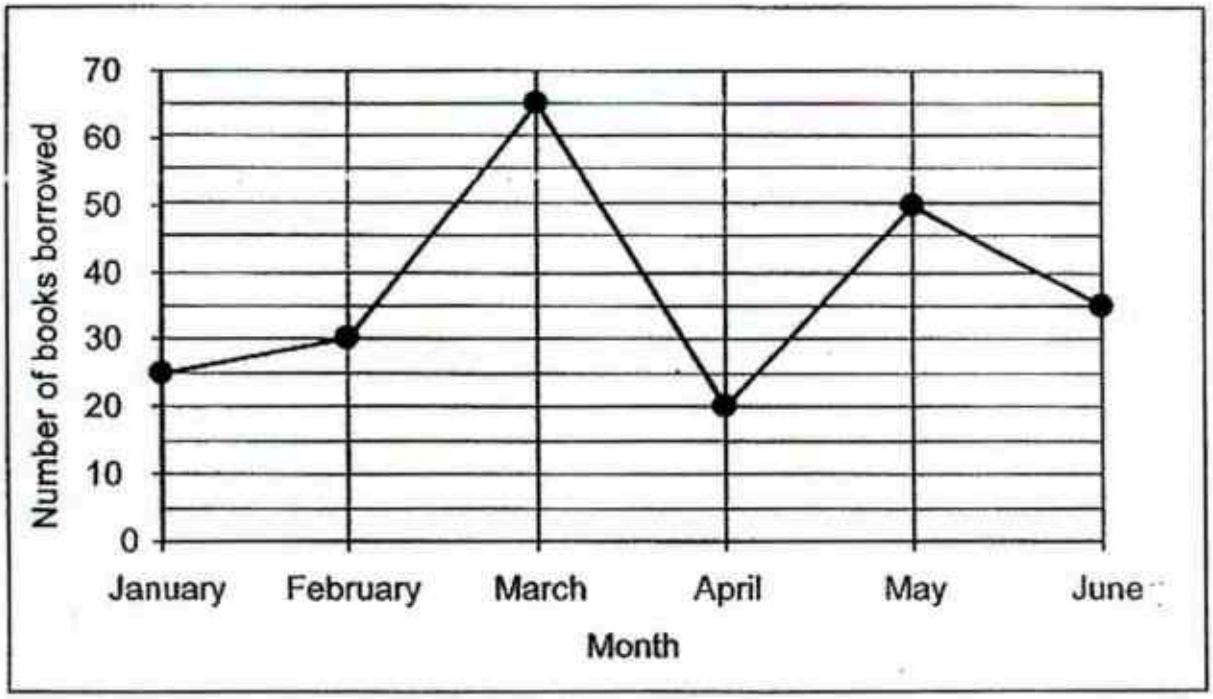


21. Johari is h years old. Jun Xiang is 7 years older than he is.
Find their total age 3 years from now in terms of h.

Ans: _____

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22. The line graph below shows the number of books borrowed from a class library from January to June. Study the graph carefully and answer the question.



In which month was the number of books borrowed twice the number of books borrowed in January?

Ans: _____

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23. Nora had $\frac{3}{5}$ kg of butter. She used $\frac{1}{3}$ kg of the butter to bake a cake.

How much butter had she left? Express your answer as a fraction in the simplest form.

Ans. _____ kg

24. Aileen wants to buy 11 jars of cookies during the sale.

What is the minimum amount of money that she will need?



Ans: $ _____

25. Mui Lee paid $\$(2m + 3)$ for 2 plates of nasi lemak and a bowl of chicken porridge. A plate of nasi lemak cost $1.50 more than a bowl of chicken porridge. What was the cost of a bowl of chicken porridge in terms of m?

Ans: $_____

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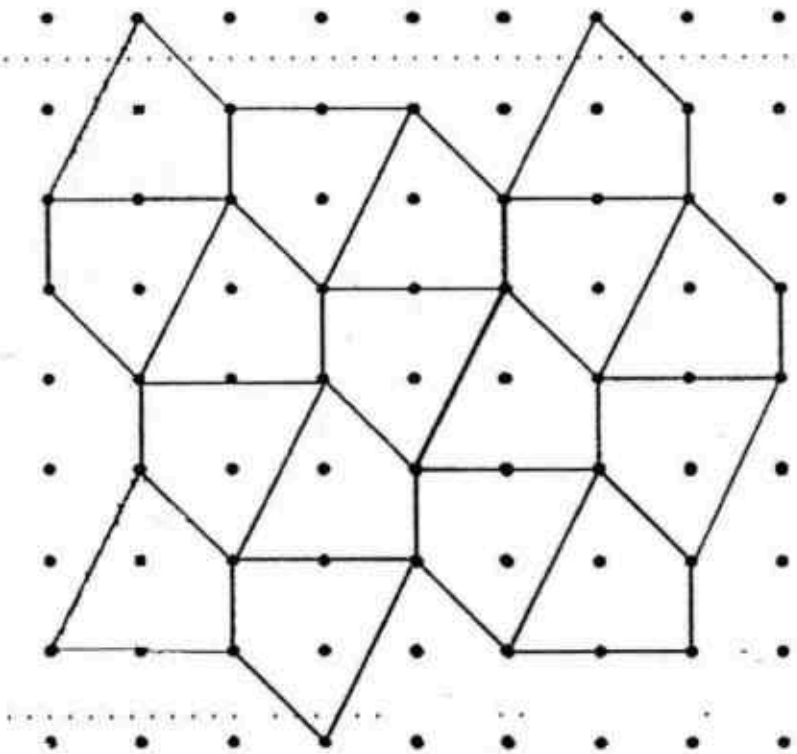
Questions **26** to **30** carry 2 marks each. **Show your workings clearly** in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

All diagrams are not drawn to scale unless stated otherwise.

(10 marks)

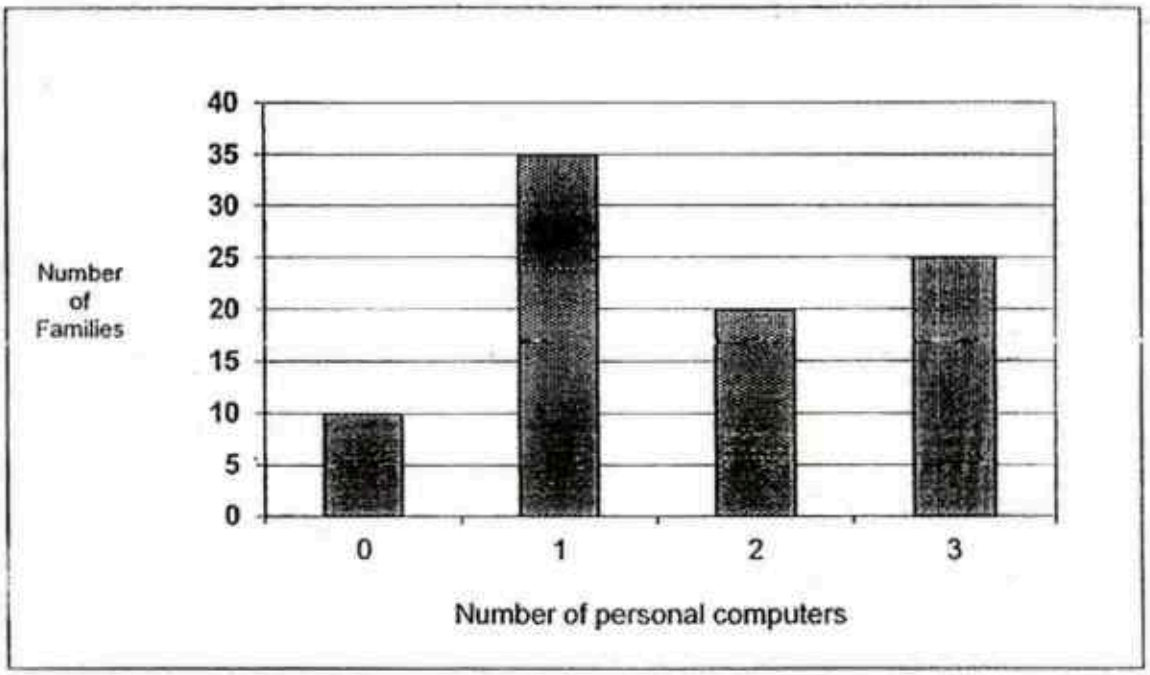
---

26. Complete the tessellation by adding 2 more unit shapes around it.
(Use a pencil and ruler to draw and shade the unit shapes)



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27. The graph below shows the number of personal computers each family has in a survey.



Find the total number of personal computers owned by all the families in the survey.

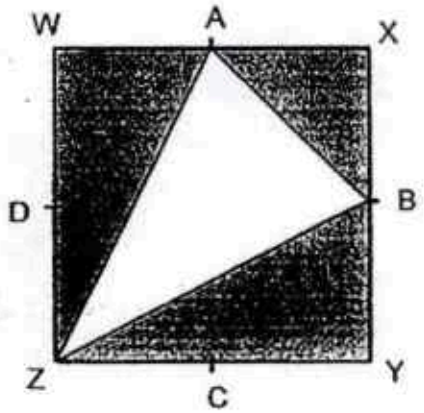
Ans: _____

28. The ratio of the length and breadth of a rectangle is 3 : 1. If the perimeter of the rectangle is 136 cm, what is the length of the rectangle?

Ans: _____ cm

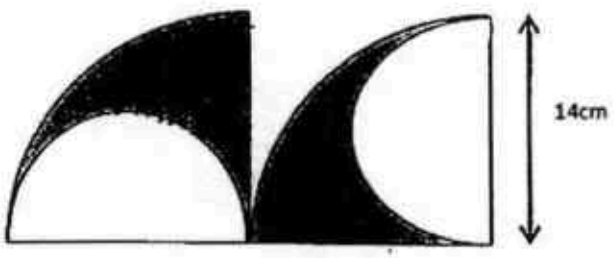
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29. A, B, C and D are the mid-points of the sides of a square WXYZ. The area of the square is 64 cm², what is the area of the unshaded triangle?



Ans: _____ cm²

30. The figure below is made up of 2 identical quadrants and 2 identical semicircles. Find the shaded area. (Take $\pi = \frac{22}{7}$)



Ans: _____ cm²

End of Booklet B

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Rosyth School
First Continual Assessment 2015
Primary 6 Mathematics

Name: _____ Register No. _____

Class: Pr 6 - _____

Date: 27th February 2015 Parent's Signature:

Time: 1 h 40 min

PAPER 2

Instructions to Pupils:

1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. **Show your workings clearly** as marks are awarded for correct working.
4. Write your answers in this booklet.
5. You are allowed to use a calculator.
6. Answer all questions.

Questions	Maximum Mark	Marks Obtained
Q 1 to 5	10	
Q 6 to 18	50	

Section	Maximum Mark	Marks Obtained
Paper 1	40	
Paper 2	60	
Total	100	

*** This booklet consists of 16 pages (including this cover page)**

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Questions 1 to 5 carry 2 marks each. <u>Show your working clearly</u> in the space provided for each question and write your answers in the spaces provided.
For questions which require units, give your answers in the units stated.
All diagrams are not drawn to scale unless stated otherwise. (10 marks)

Do not write in this space

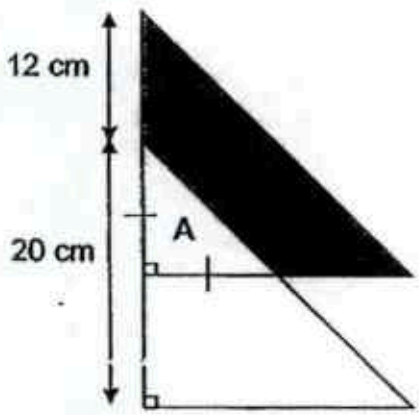
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1. A television screen is $\frac{5}{6}$ m long and $\frac{4}{7}$ m wide. What is the area of the screen? Express your answer in the simplest form.

Ans: _____ m^2

---

2. Two identical isosceles right-angled triangles overlap each other to form a smaller isosceles triangle A. Find the area of the shaded part.

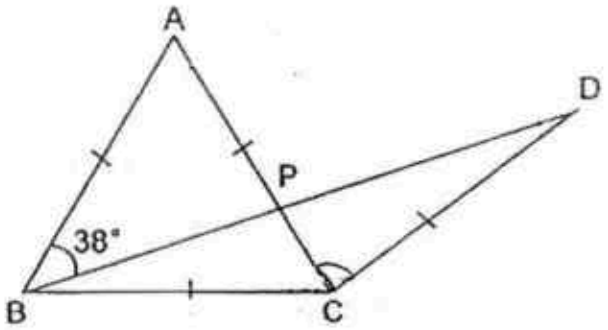


Ans: _____ cm^2

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3. ABC is an equilateral triangle and BCD is an isosceles triangle. Find ∠ DCP

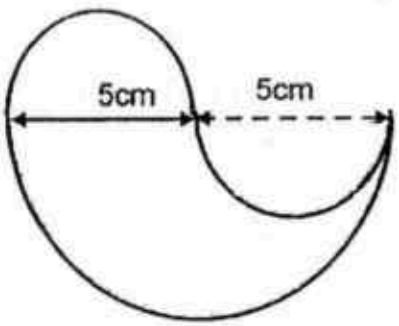
Do not write in this space



Ans: _____ °

---

4. The figure below is made up of 3 semicircles. Find the perimeter of the figure. Give your answer in terms of π.



Ans: _____ cm

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5. A lego box has $\frac{4}{5}$ as many red lego blocks as yellow lego blocks. It has $\frac{2}{7}$ as many black lego blocks as yellow lego blocks. What is the ratio of the number of red lego blocks to the number of yellow lego blocks to the number of black lego blocks?

Do not write in this space

Ans: _____

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Questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question.
All diagrams are not drawn to scale unless stated otherwise. (50 marks)

Do not write in this space

6. Mr Tan put some potted plants in a straight row at equal distances apart. The distance between the 1st and 6th potted plant was 105 m. The distance between the 2nd and the last potted plant was 210 m. How many potted plants were there altogether?

Ans: _____ [3m]

7. Mary used p cherries to decorate 3 similar cakes. After decorating 21 such cakes, she had 4 cherries left.

(a) Express the number of cherries Mary had at first in terms of p.

(b) Find the total number of cherries Mary had at first when $p = 6$.

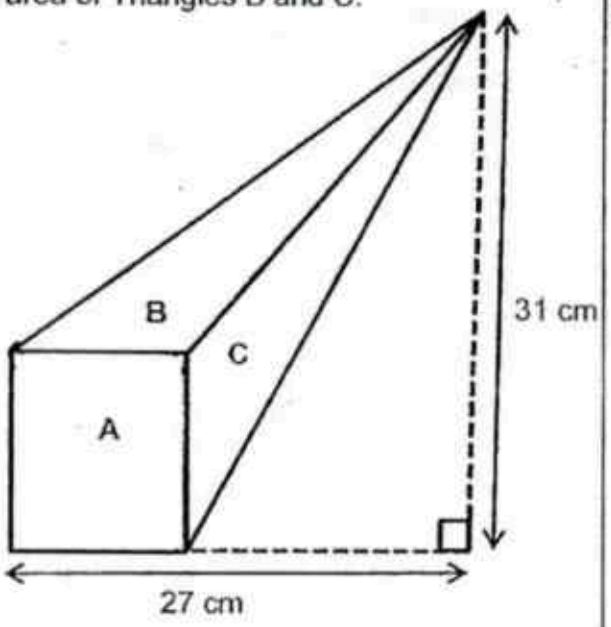
Ans: (a) _____ [2m]

(b) _____ [1m]

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8. The figure below is made up of a square and two triangles. The area of the Square A is 81 cm^2. Find the total area of Triangles B and C.

Do not write in this space

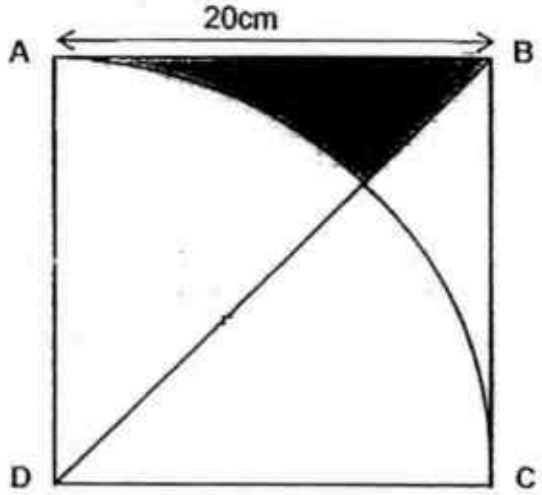


Ans: _____ [3m]

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9. The figure below is made up of a square ABCD with sides 20 cm, one quadrant ACD and one triangle BCD. Find the area of the shaded part.

Take $\pi = 3.14$.



Do not write in this space

Ans:_____[3m]

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10. There were 18 more white buttons than red buttons in the bottle. Miss Wong removed 21 white buttons and replaced them with 21 red buttons. After this, there were thrice as many red buttons as white buttons in the bottle.

(a) How many white buttons were there in the bottle after 21 white buttons were removed from it?

(b) What was the total number of buttons in the bottle in the end?

Do not write in this space

Ans: (a) _____ [2m]

(b) _____ [1m]

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11. Kristal and Joy received a sum of money each. If Joy spent 10% of her money, she would have $6 less than Kristal. If Kristal spent 10% of her money, she would still have $1.60 more than Joy. What was the total amount of money that both girls received?

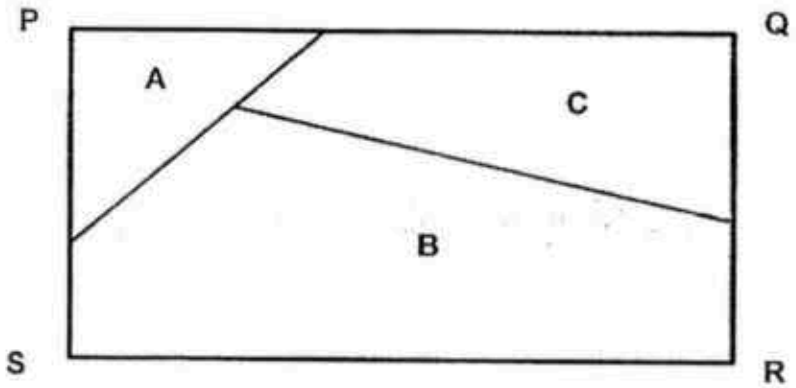
Do not write in this space

Ans: _____ [4m]

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12. The figure shows a rectangle PQRS which is divided into three parts A, B and C. The ratio of area A to area B is 1 : 3 and the ratio of area B to area C is 5 : 9. The area of C is 81 cm^2. What is the area of rectangle PQRS?

Do not write in this space



Ans: _____ [4m]

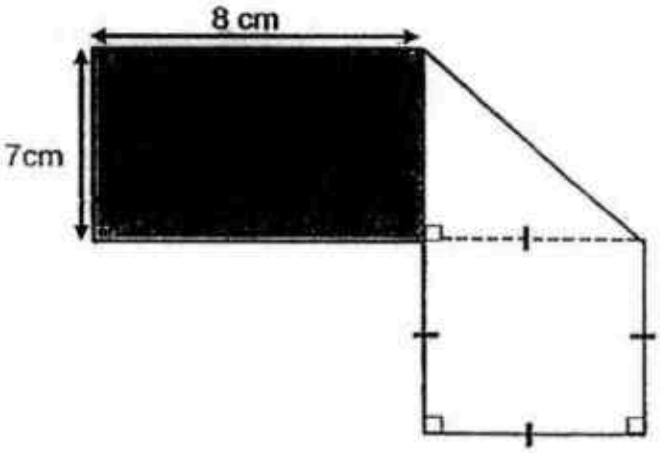
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13. A rectangular piece of paper, coloured on one side, is folded to form the shape shown below.

(a) Find the perimeter of the rectangular piece of paper before it was folded.

(b) Find the area of the unshaded part of the shape shown below.

Do not write in this space



Ans: (a) _____ [2m]

(b) _____ [2m]

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14. Andy is 4 times as old as his brother. In 7 years' time, the ratio of Andy's age to his brother's age will be 5 : 3. Their father will be 3 times Andy's age in 9 years' time.

(a) What is Andy's age now?

(b) What is the age difference between Andy and his father?

Do not write in this space

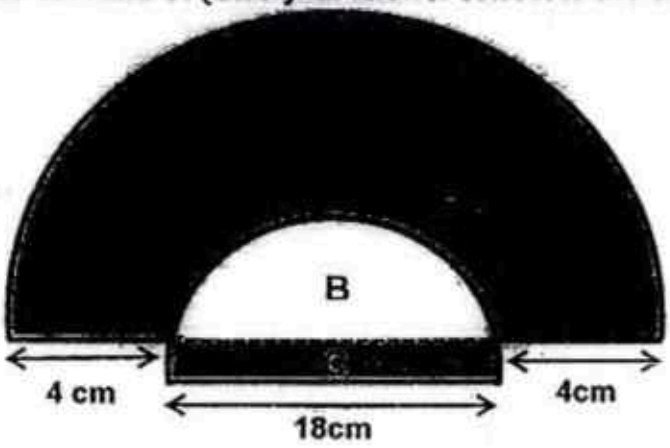
Ans: (a) _____ [2m]

(b) _____ [2m]

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15. The figure below shows 2 overlapping semi-circles and two shaded areas, A and C. The diameter of the bigger semi-circle is 24 cm. The area of unshaded area B is 32π cm². Use the calculator value of π to find the total shaded area of A and C. (Give your answer correct to two decimal places)

Do not write in this space



Ans:_____[4m]

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16. Devi has 329 red, blue, yellow and green balloons. If the number of red balloons is tripled, the number of blue balloons is halved, the number of yellow balloon is increased by 28 and the number of green balloon is decreased by 32, there will be an equal number of balloons for each of the colours. How many balloons are there for each of the colours?

Do not write in this space

Ans: Red _____ [2m]

Blue _____ [1m]

Yellow _____ [1m]

Green _____ [1m]

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17. During the P6 Post- Exam Activities, $\frac{2}{7}$ of the pupils and an additional 12 pupils attended the guitar lessons. $\frac{1}{4}$ of the remaining pupils and an additional 23 pupils attended the photography lessons. The rest of the pupils which were 193 pupils attended the hip-hop lessons.

Do not write in this space

(a) How many pupils attended the photography lessons?

(b) How many P6 pupils were there?

Ans: (a)_____ [2m]

(b)_____ [3m]

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18. Eddie had $\frac{5}{8}$ as many toy soldiers as Ahmad. Ahmad gave away 30% of his toy soldiers while Eddie bought 17 more toy soldiers. In the end, the ratio of the number of toy soldiers Ahmad had to the number of toy soldiers Eddie had was 2 : 3.

(a) How many toy soldiers did Ahmad have at first?

(b) How many toy soldiers did Eddie have in the end?

Do not write in this space

Ans: (a) _____ [3m]

(b) _____ [2m]

End of Paper

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ROSYTH SCHOOL
CA 1 2015
PRIMARY 6 MATHEMATICS

PAPER 1

1) 1 2) 1 3) 1 4) 3 5) 3 6) 4 7) 2
8) 3 9) 3 10) 4 11) 2 12) 2 13) 3 14) 3
15) 3

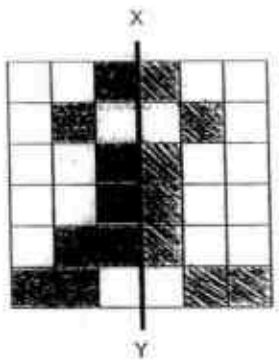
16) 1/4, 0.45, 1.08, 14/10

17) 14/7X5 = 10 apples

18) 7/20

19) 38°

20)



21) h+7+h+3+3 = (2h+13) years old

22) May

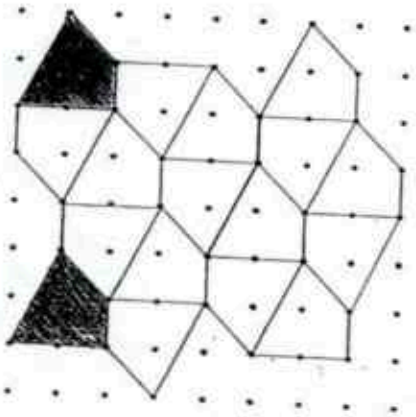
23) 4/15 kg

24) $(39+10) = $49

25) 2m+3-3 = 2m
Ans : $(2m/3)

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26)



27) 35+40+75 = 150

28) 8u -- 136 cm
3u -- 3/8x136 = 51 cm

29) 8x8-2x1/2x8x4-1/2x4x4 = 24 sq cm

30) 1/2x22/7x14x14-22/7x7x7 = 154 sq cm

Paper 2

1) 5/6x4/7 = 10/21 sq m

2) 20-12 =8
1/2x8x8 = 32
1/2x20x20 = 200
200-32 = 168 sq cm

3) 180°-22°-22° = 136°
136°-60° = 76°

4) 2xπx2.5 + 1/2x2xπx5 = 5π+5π = 10π cm

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5) R : Y : B
4 : 5
7 : 2

28 : 35 : 10

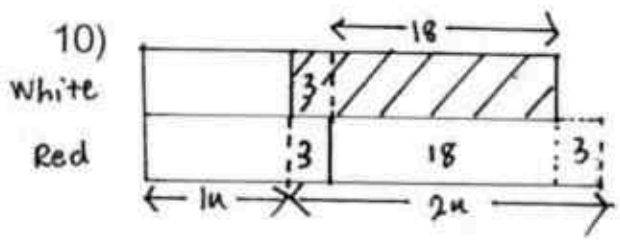
6) 105÷5 = 21
210÷21 = 10
10+1+1 = 12 potted plants

7a) (7p+4) cherries
b) 7x6+4 = 46 cherries

8) 81 = 9x9
Total area = 1/2x9x22 + 1/2x9x18 = 180 sq cm

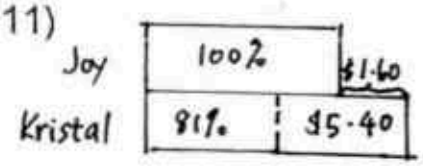
9) Area of shaded part = 1/2x20x20 - 1/8x3.14x20x20 = 43 sq cm

10)



a) 2u -- 21+3 =24
1u -- 24÷2 = 12 white buttons
b) 4u -- 4x12 = 48 buttons

11)



19% -- $(5.40-1.60) = $3.80
190% -- $38
$(38+6) = $44

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12) A : B : C
1 : 3
5 : 9
---
5 : 15 : 27
27u -- 81 sq cm
47u -- 47/27x81 = 141 sq cm

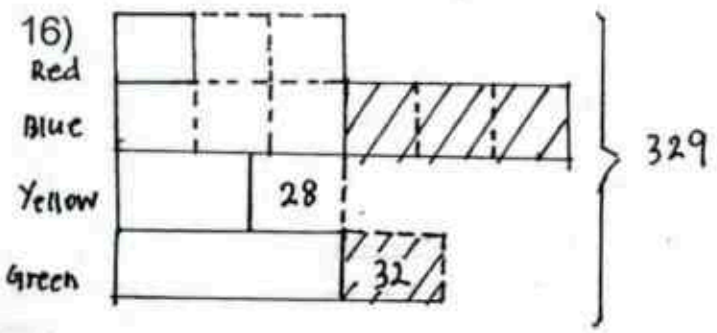
13a) Perimeter = (7x2+8+7)x2 = 58 cm
b) 1/2x7x7 + 7x7 = 24.5 + 49 = 73.5 sq cm

14)	Andy : brother	difference
now	4 : 1	3u
in 7 years'	5 : 3	2u
now	8 : 2	6u
in 7 years'	15 : 9	6u

a) Andy is 8 years' old
b) Andy's age in 9 years' = 8+9 = 17
Andy's father in 9 years' = 17x3 = 51
Difference in age between Andy and his father = 51-17 = 34 years old

15) A+B = 1/2xπx12x12 = 72π
C+B = 1/2xπx9x9 = 40.5π
A+B+B+C = 72π+40.5π = 112.5π
A+32π+32π+C = 112.5π
A+C = 112.5π-32π-32π = 48.5π ≈ 152.37 sq cm

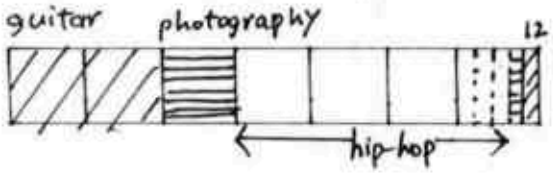
16)



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329+28-32 = 325
Red : 325÷13 = 25
Blue : 25x3x2 = 150
Yellow : 25x3-28 = 47
Green : 25x3+32 = 107

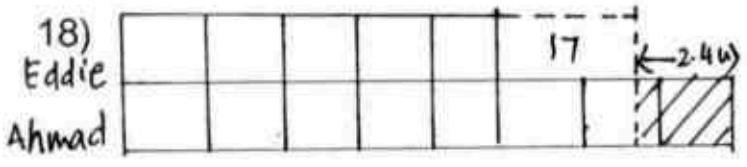
17)



a) 3u+3p = 193+23 = 216
1u+1p = 216÷3 = 72
72+23 = 95 pupils attended the photography lessons

b) Pupils not attending the photography lessons = 95+193 = 288
288+12 = 300
5u -- 300
7u -- 7/5x300 = 420 P6 pupils

18)



a) 20/100x8 = 2.4u
8u-2.4u = 5.6u
2 parts -- 5.6u
3 parts -- 3/2x5.6 = 8.4u
8.4u-5u = 3.4u
3.4u -- 17
8u -- 8÷3.4x17 = 40 toy soldiers at first

b) 5u -- 5÷3.4x17 = 25
25+17 = 42 toy soldiers in the end

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METHODIST GIRLS' SCHOOL

Founded in 1887

PRIMARY 6 CONTINUAL ASSESSMENT 2015
MATHEMATICS
PAPER 1

(BOOKLET A)

Total Time for Booklets A and B: 50 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Shade your answers in the Optical Answer Sheet (OAS) provided.
The use of calculators is **NOT** allowed.

Name: _____ ( )

Class: Primary 6._____

Date: 3 March 2015

This booklet consists of 7 printed pages including this page.

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Questions **1** to **10** carry 1 mark each. Questions **11** to **15** carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

(20 marks)

---

1 Which one of the following algebraic expressions is the same as $\frac{6w}{5}$?

(1) $6 + w + 5$
(2) $6 \times w + 5$
(3) $6 + 5 + w$
(4) $w + 5 + 6$

2 8 thousands + 12 hundreds + 36 tens + 25 ones = _____

(1) 8 073
(2) 8 181
(3) 8 505
(4) 9 585

3 $\frac{1}{4} + 0.01 + \frac{1}{20} =$ _____

(1) 0.21
(2) 0.31
(3) 0.36
(4) 0.75

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4 Siti bought a cake. She kept $\frac{2}{5}$ of it for herself and divided the remaining cake equally among her 4 children. What fraction of the cake did each child receive?

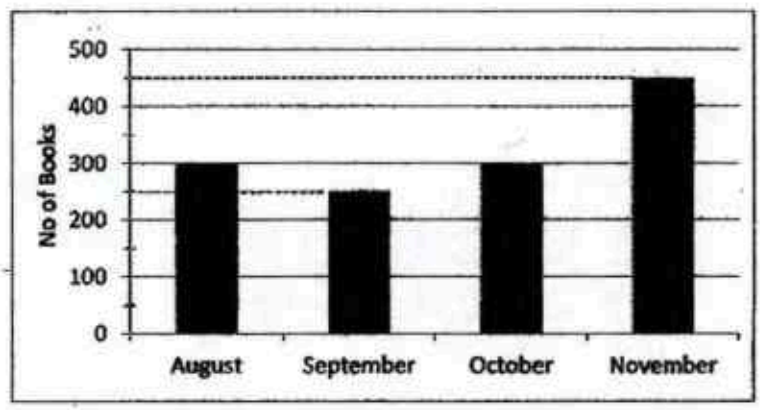
(1) $\frac{1}{10}$

(2) $\frac{3}{20}$

(3) $1\frac{3}{5}$

(4) $2\frac{2}{5}$

5 The graph below shows the number of books which were borrowed from a school library from August to November.



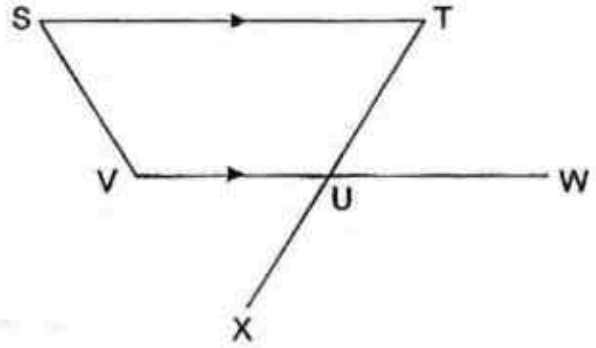
What was the average number of books that were borrowed from August to November?

(1) 300
(2) 325
(3) 650
(4) 1 300

(Go on the next page)

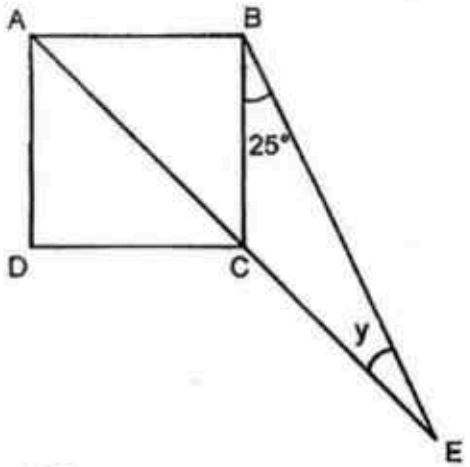
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6 In the figure below, STUV is a trapezium. TX and VW are straight lines. Which one of the following statements is **false**?



(1) $\angle TSV + \angle SVU = 180°$
(2) $\angle TUV = \angle WUX$
(3) $\angle TSV + \angle STU = 180°$
(4) $\angle VUX + \angle XUW = 180°$

7 ABCD is a square. ACE is a straight line. $\angle CBE = 25°$. Find the value of $\angle y$.



(1) 20°
(2) 25°
(3) 45°
(4) 70°

(Go on the next page)

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8 Jerry and Su Ling shared $280 in the ratio 2 : 5.
How much money did Su Ling receive?

(1) $40
(2) $80
(3) $120
(4) $200

9 There are 60 marbles in a jar. There are 38 blue marbles. The rest are red marbles.
What is the ratio of the number of red marbles to the number of blue marbles in the jar?

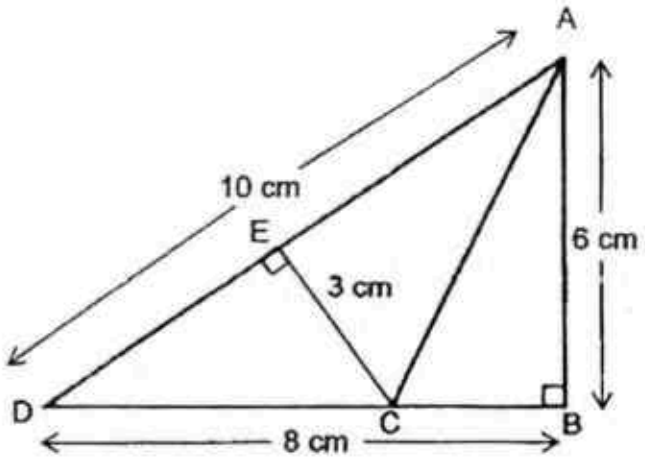
(1) 11 : 19
(2) 11 : 30
(3) 19 : 11
(4) 19 : 30

10 Lily had 5 m of cloth. She used 150 cm of it to make a table cloth and used the remaining cloth to make b handkerchiefs. How much cloth did she use for each handkerchief?

(1) $\frac{350}{b}$ cm
(2) $\frac{b}{350}$ cm
(3) $\frac{5-b}{150}$ cm
(4) $\frac{b-150}{5}$ cm

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11 Find the area of triangle ADC.



(1) $(\frac{1}{2} \times 3 \times 10)\ cm^2$

(2) $(\frac{1}{2} \times 8 \times 6)\ cm^2$

(3) $(\frac{1}{2} \times 6 \times 10)\ cm^2$

(4) $(\frac{1}{2} \times 8 \times 10)\ cm^2$

12 On a book shelf, $\frac{5}{9}$ of the books were English books. The rest of the books were Chinese books.
The ratio of English fiction books to English non-fiction books was 3 : 7.
There were 24 English fiction books. How many Chinese books were there on the book shelf?

(1) 56
(2) 64
(3) 80
(4) 144

(Go on the next page)

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13 Mr Tan had 80 stamps. He gave 20% of his stamps to his son and 25% of the remaining stamps to his daughter. What percentage of his stamps was left?

(1) 45%
(2) 48%
(3) 55%
(4) 60%

14 Mary walks her dog once every two days, while Bala walks his dog once every five days. Both Mary and Bala met each other for the first time on 6 January. How many **more** times will they meet each other in January when they take their dogs for a walk?

(1) 1
(2) 2
(3) 3
(4) 4

15 Look at the set of numbers below.

17 , 32 , 27 , 20 , ?

What number must be added to this set of numbers to increase the average to 26?

(1) 8
(2) 24
(3) 34
(4) 122

(Go on to Booklet B)

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METHODIST GIRLS' SCHOOL

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PRIMARY 6 CONTINUAL ASSESSMENT 2015
MATHEMATICS

PAPER 1

(BOOKLET B)

Total Time for Booklets A and B: 50 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Write your answers in this booklet.
The use of calculators is **NOT** allowed.

Name: _____ ( )

Class: Primary 6._____

Date: 3 March 2015

Paper 1 Booklet A	**/ 20**
Paper 1 Booklet B	**/ 20**
Paper 2	**/ 60**
TOTAL	**/ 100**

This booklet consists of 8 printed pages including this page.

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Questions **16** to **25** carry 1 mark each. Write your answers in the spaces provided.
For questions which require units, give your answers in the units stated.

(10 marks)

16 What is the value of $\triangle$?

$4 : 8 = \triangle : 24.$

Ans: _____

17 Find the sum of the factors of 16.

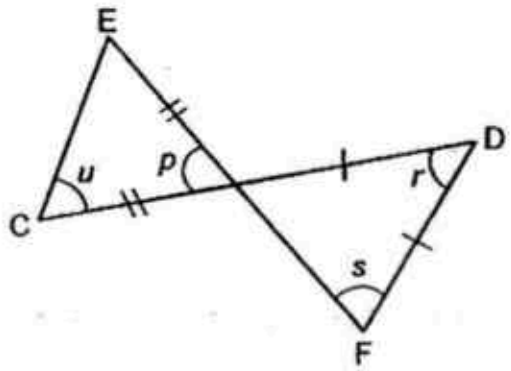
Ans: _____

18 Express 1.38 as a percentage.

Ans: _____%

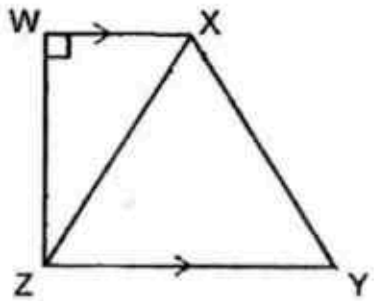
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19 CD and EF are straight lines.
Which of the 2 marked angles in the figure are equal?



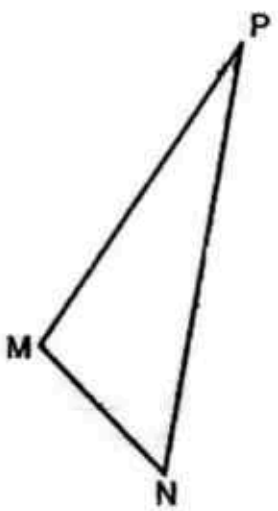
Ans: _____

20 WXYZ is a trapezium and XYZ is an equilateral triangle. Find ∠WXZ.



Ans: _____°

21 MN is the base of the triangle MNP below. Draw the height using a ruler and label it *h*.



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22 Petrol costs $1.75 per litre. The petrol tank in Raju's car can take 50 litres of petrol. How much does Raju have to pay for a full tank of petrol?

Ans: $ _____

23 During a 42 km race, Timothy ran $\frac{19}{21}$ of the distance and walked the remaining distance. What was the distance he walked?

Ans: _____ m

24 Mrs Ali paid $30.90 for 1 kg of king prawns. How much does 100g of king prawn cost?

Ans: $ _____

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25 Rohaya, Penny and Mani paid $147 for a meal. Rohaya paid twice as much as Penny and half as much as Mani. How much did Rohaya pay?

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Questions **26** to **30** carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

---

26 Mark is *b* kg. Tom is 4 kg heavier than Mark. Zainal is 3 kg lighter than Mark. What is the total mass of the 3 boys?

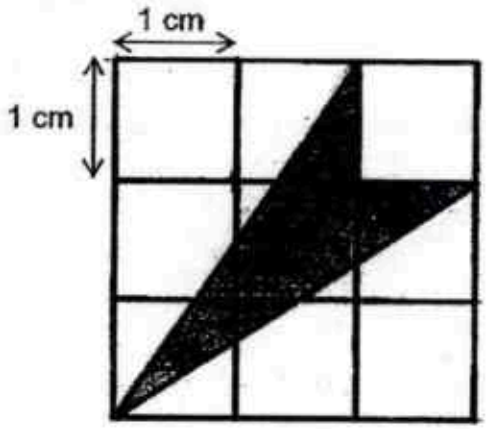
Ans: _____ kg

27 The ratio of Cathy's stickers to Rani's stickers is 1 : 5. The ratio of Taufiq's stickers to Rani's is 1 : 2. The three of them have a total of 340 stickers. How many stickers does Rani have?

Ans: _____

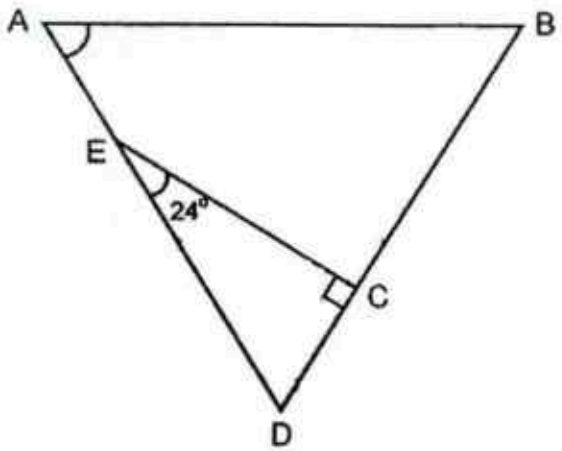
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28 Find the area of the shaded region.



Ans: _____ cm^2

29 ABD is an isosceles triangle. AD = BD and ∠CED = 24°
Find ∠BAD.



Ans: _____ °

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30 There were 78 puppies and 43 kittens in a pet farm. 18 puppies and 23 kittens were sold. What percentage of the animals left in the pet farm were puppies?

Ans: _____ %

End of Paper

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METHODIST GIRLS' SCHOOL

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PRIMARY 6 CONTINUAL ASSESSMENT 2015
MATHEMATICS

PAPER 2

Duration: 1 h 40 min

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Write your answers in this booklet.
The use of an approved calculator is expected, where appropriate.

Name: _____ ( )

Class: Primary 6._____

Date: 3 March 2015

/60

This booklet consists of 15 printed pages including this page.

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Questions **1** to **5** carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space

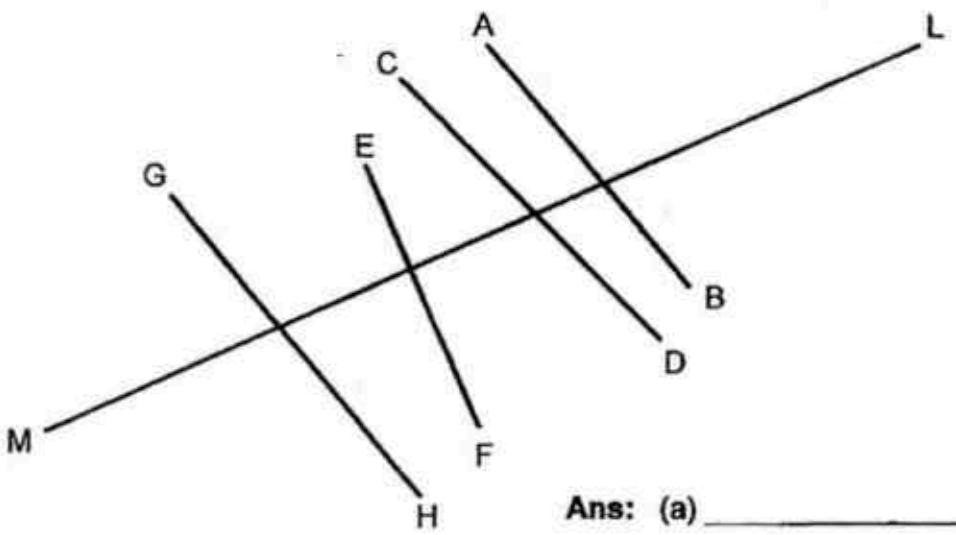
1 Meiyi bought p number of pens at 80 cents each and some pencils for $5. She gave the cashier $20. How much change did she receive?

Ans: _____ cents

2 AB, CD, EF, GH and LM are straight lines.

(a) Which 2 lines are parallel to each other?

(b) Which line is perpendicular to LM?



Ans: (a) _____

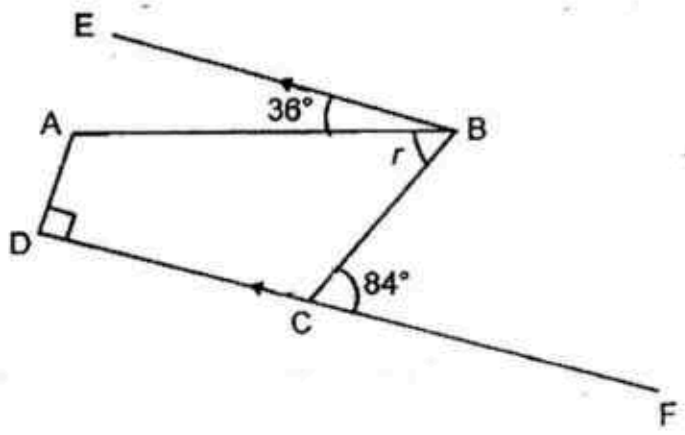
(b) _____

(Go on to the next page)

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Do not write in this space

3 In the figure below, DF is a straight line. BE // CD. Find $\angle r$.



Ans: _____ °

4 A tank measuring 150 cm by 70 cm by 60 cm is $\frac{1}{4}$ - filled with water.

How much more water is needed to make it $\frac{5}{6}$ full?

Ans: _____ cm^3

(Go on to the next page)

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5 The average of 6 numbers is 30. When 2 numbers were removed, the average decreased by 5. What is the average of the 2 numbers that were removed?

Do not write in this space

Ans: _____

(Go on to the next page)

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For Questions **6** to **18**, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (50 marks)

Do not write in this space

6 The ratio of the number of picture cards Yvette had to the number of picture cards Zavier had was 1 : 3.
Yvette gave Zavier 15 picture cards and the ratio became 1 : 4.
How many picture cards did Zavier have in the end?

Ans: _____ [3]

7 During a school party, each girl was given 2 cupcakes and each boy was given 3 cupcakes. The ratio of the number of girls to the number of boys in the school was 4 : 5. A total of 460 cupcakes were distributed to the children. How many boys were there in the school?

Ans: _____ [3]

(Go on to the next page)

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8 128 men and some women took part in an obstacle race. The ratio of the number of men to the number of women at the start of the race was 8 : 5. The ratio of the number of men to the number of women who completed the race was 4 : 1. All the men completed the race. How many women did not complete the race?

Do not write in this space

Ans: _____ [3]

9 Mrs Rahman gave Bala some money. Bala spent $\frac{2}{5}$ of it on 2 shirts and a pair of jeans. Each shirt cost $\frac{1}{2}$ as much as the pair of jeans.

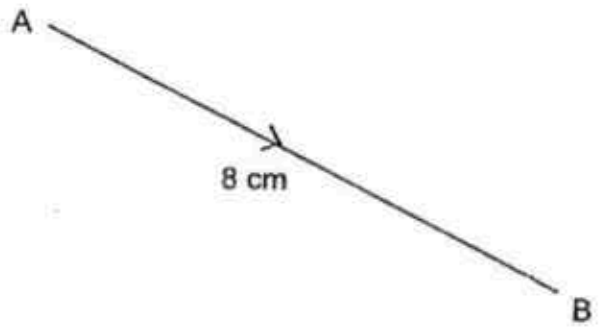
If Bala spent the remaining money Mrs Rahman gave him on jeans, how many more pairs can he buy?

Ans: _____ [3]

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10 In the space below, draw a parallelogram ABCD in which AB // DC, AB = 8 cm, BC = AD = 5 cm and ∠ ABC = 70°.
The line AB has been drawn for you. [3m]

Do not write in this space



(Go on to the next page)

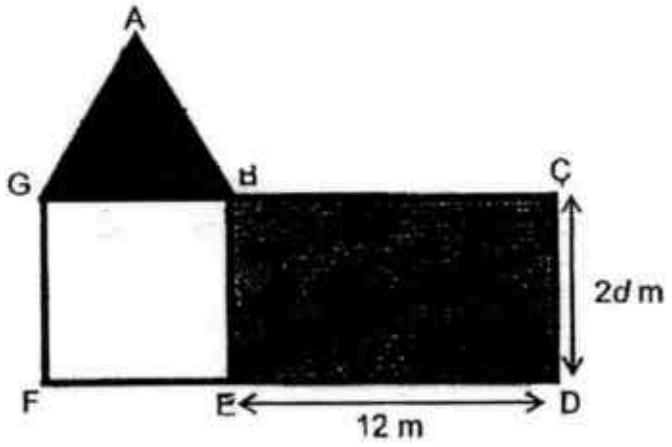
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11 The figure below is made up of an equilateral triangle, a square and a rectangle.

Do not write in this space

(a) What is the perimeter of the figure?

(b) If $d = 3$, what is the perimeter of the shaded part?



Ans: (a) _____ [2]

(b) _____ [2]

(Go on to the next page)

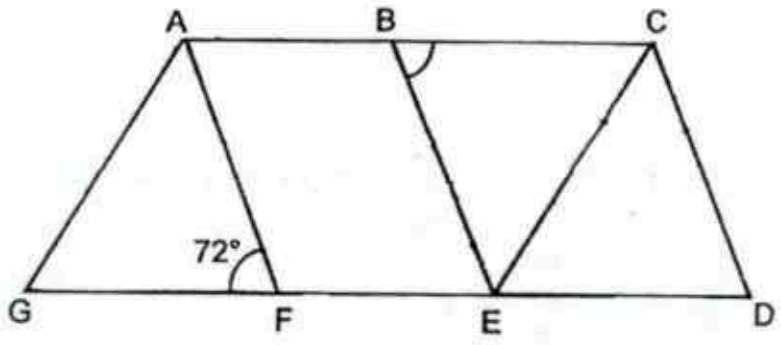
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12 In the figure below, ACEG is a parallelogram and BCDE is a rhombus. $\angle AFG = 72°$ and AF is parallel to BE.

Do not write in this space

(a) Find $\angle CBE$.

(b) Find $\angle BCE$.



Ans: (a) _____ [1]

(b) _____ [3]

(Go on to the next page)

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13 Carol bought $\frac{11}{12}$ kg of beef. She kept $\frac{1}{4}$ of it and gave $\frac{1}{5}$ of the remainder to her neighbour. She repacked the rest into smaller packets of $\frac{1}{5}$ kg each. How many small packets of beef did Carol have at most?

Do not write in this space

Ans: _____ _____ [4]

(Go on to the next page)

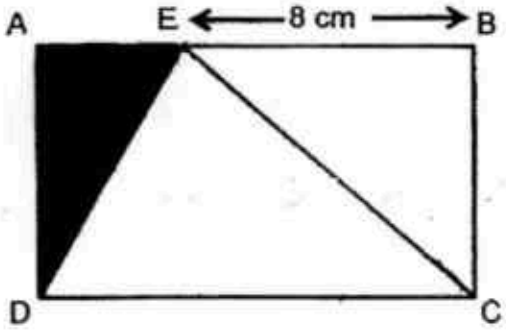
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14 The area of rectangle ABCD is 108 cm^2. The ratio of the length of AE to the length of AB is 1 : 3. EB = 8 cm.

Do not write in this space

(a) What fraction of the figure is shaded?

(b) Find the length of AD.



Ans: (a) _____ [1]

(b) _____ [3]

(Go on to the next page)

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15 Three friends, Ally, Beatrice and Claire shared the cost of a birthday present for their teacher.
The ratio of Ally's share to the total of Beatrice and Claire's share was 2 : 5.
The ratio of Beatrice's share to the total of Ally and Claire's share was 1 : 2.
Beatrice paid $25 more than Ally.

(a) Find the ratio of the Ally's share to Beatrice's share to Claire's share.

(b) What is the cost of the present?

Do not write in this space

Ans: (a) _____ [2]

(b) _____ [2]

(Go on to the next page)

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16 The cost of a notebook is 5 times as much as the cost of a pen.
The cost of a pen is twice as much as the cost of an eraser.
John bought 2 notebooks, 4 pens and 4 erasers.
He gave the cashier $40 and received $16 change.

(a) What is the cost of 1 pen?

(b) How many **more** notebooks can John buy with the change that he received?

Do not write in this space

Ans: (a) _____ [3]

(b) _____ [2]

(Go on to the next page)

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17 $\frac{3}{4}$ of Cara's monthly allowance is equal to $\frac{6}{7}$ of Lily's monthly allowance.
Both Cara and Lily spent the same amount each month. At the end of the month, Cara had four times as much money as Lily left.
They spent a total of $400 in a month.

(a) What fraction of Cara's monthly allowance was Lily's allowance?

(b) How much was Cara's monthly allowance?

Do not write in this space

Ans: (a) _____ [2]

(b) _____ [3]

(Go on to the next page)

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18 Denise bought a set of cooking pots for $256.80, inclusive of 7% GST. Ellie bought an identical set of cooking pots during a sale for $205.44, inclusive of 7% GST.

(a) What was the original price of the set of pots before the ~~sale~~ GST?

(b) What was the percentage discount Ellie enjoyed before the 7% GST?

Do not write in this space

Ans: (a) _____ [2]

(b) _____ [3]

End of Paper

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METHODIST GIRLS' SCHOOL
CONTINUAL ASSESSMENT 2015
MATHEMATICS
Paper 1

1) 2	2) 4	3) 2	3) 2	5) 2	6) 3
7) 1	8) 4	9) 1	10) 1	11) 1	12) 2
13) 4	14)2	15) 3			

16) 12

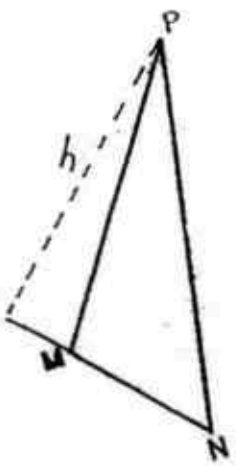
17) 31

18) 138%

19) Angle p & angle s

20) 60°

21)



22) \$1.75x50 = \$87.50

23) 4000 m

24) \$3.09

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25) 7u -- $147
2u -- 2/7x147 = $42

26) (3b+1) kg

27) 17u -- 340
10u -- 10/17x340 = 200 stickers

28) 3x3-1x1-(1/2x3x2)-(1/2x3x2) = 2 sq cm

29) 180°-90°-24° = 66°
(180°-66°)/2 = 57°

30) Number of puppies = 78-18 = 60
Number of kittens = 43-23 = 20
60/(20+60)x100% = 75%

Paper 2

1) 2000-500-80xp = (1500-80p) cents

2a) GH//AB
b) EF

3) 86°-36° = 48°

4) (5/6-1/4)x60x150x70 = 367500 cubic cm

5) 30x6 = 180
30-5 = 25
25x4 = 100
180-100 = 80
80÷2 = 40

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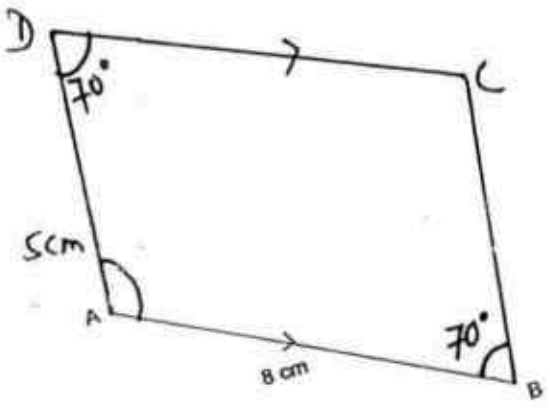
6) Y : Z total
1 : 3 4u
1 : 4 5u
---
5 : 15 20u
4 : 16 20u
1u -- 15
16u -- 16x15 = 240 picture cards

7) 4x2+5x3 = 23
23u -- 460
15u -- 15/23x460 = 300
300÷3 =100 boys

8) 8u -- 128
3u --3/8x128 = 48 women

9) 2 shirts = 1 pair of jeans
2u -- 2 pairs of jeans
3u -- 3 pairs of jeans

10)



11a) (10d+24) m
b) 10x3+24 = 54 m

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12a) 72°
54°

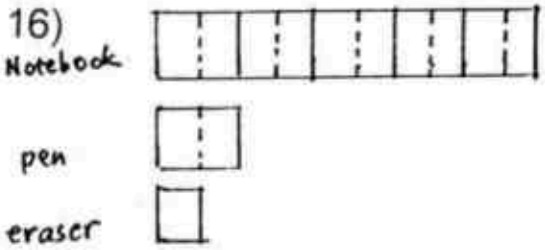
13) 4/5x3/4x11/12 = 11/20
11/20÷5 = 2.75
Ans: 2 small packets

14a) 1/6
b) 4+8 = 12
108÷12 = 9 cm

15a) A : B+C total
2 : 5 7u
B : A+C
1 : 2 3u
since there is no change in total amount of money, so find total common units
A : B+C
6 : 15 21u
B : A+C
7 : 14 21u
A : B : C
6 : 7 : 8
b) 1u -- $25
21u -- 21x$25 = $525

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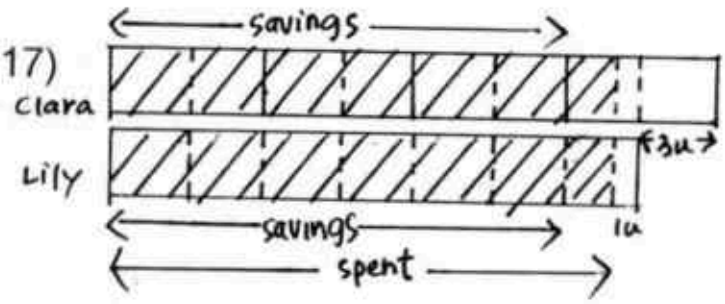
16)



a) 32u -- $(40-16) = $24
2u -- 2/32x$24 = $1.50

b) Cost of a notebook = $1.50x5 = $7.50
$16÷$7.50 ≈ 2 notebooks

17)



a) 7/8

b) 40u -- $400
24u -- 24/40x$400 = $240

18a) 107% -- $256.80
100% -- 100/107x$256.80 = $240

b) 107% -- $205.44
100% -- 100/107x$205.44 = $192
(240-192)/240x100% = 20%

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Name : _____ (

Class : Primary 6 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

Primary 6 Mathematics

2015 Continual Assessment One

Paper 1

Booklet A

3 March 2015

15 questions
20 marks

TOTAL TIME FOR BOOKLET A & B : 50 MINUTES

INSTRUCTIONS TO CANDIDATES
DO NOT TURN OVER THIS PAGE UNTIL YOU ARE TOLD TO DO SO.
FOLLOW ALL INSTRUCTIONS CAREFULLY.
ANSWER ALL QUESTIONS.
THE USE OF CALCULATORS IS NOT ALLOWED.

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Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3, 4) on the Optical Answer Sheet. (20 marks)

---

1) In 8 413 297, which digit is in the hundred thousands place?

(1) 1

(2) 2

(3) 3

(4) 4

2) Which one of the following numbers is 60 000, when rounded off to the nearest hundred and when rounded off to the nearest thousand?

(1) 59 599

(2) 59 950

(3) 60 050

(4) 60 499

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3) What is the value of $10 \div 5000$?

(1) 0.002

(2) 0.02

(3) 50

(4) 500

4) Which of the following is equivalent to $3 \div \frac{7}{9}$?

(1) $\frac{1}{3} \times \frac{9}{7}$

(2) $\frac{7}{9} \times 3$

(3) $2 + \frac{1}{3}$

(4) $3 + \frac{6}{7}$

5) A $\frac{4}{5}$-kg of honeydew was cut into 8 equal pieces. What is the mass of each piece of honeydew?

(1) $\frac{1}{10}$kg

(2) $\frac{5}{32}$kg

(3) $6\frac{2}{5}$kg

(4) $7\frac{1}{5}$kg

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6) What is the volume of a cube of edge 8 cm?

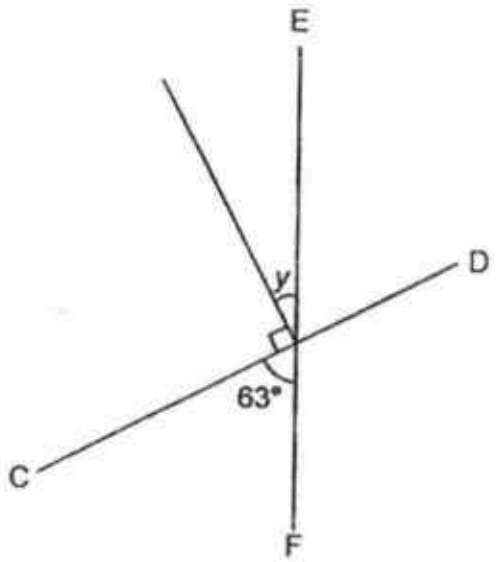
(1) 24 cm^3

(2) 64 cm^3

(3) 128 cm^3

(4) 512 cm^3

7) In the figure below, not drawn to scale, CD and EF are straight lines. Find $\angle y$.



(1) 27°

(2) 37°

(3) 45°

(4) 63°

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8) A kg of dried mushrooms costs $28. What is the cost of 200 g of the dried mushrooms?

(1) $5.60
(2) $11.20
(3) $14.00
(4) $56.00

9) The usual price of a power bank was $75. During a sale, it was sold at a discount of 20%. How much was the discount?

(1) $60
(2) $55
(3) $15
(4) $11

10) The length of stick U is $\frac{5}{2}$ of the length of stick T. Stick U is 18 cm longer than stick T. Find the length of stick T.

(1) 2 cm
(2) 6 cm
(3) 10 cm
(4) 12 cm

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11) 6 children shared a pizza equally at a party. One of them gave away $\frac{1}{2}$ of his share to his sister. What fraction of the pizza had he left?

(1) $\frac{1}{12}$

(2) $\frac{1}{6}$

(3) $\frac{1}{3}$

(4) $\frac{1}{2}$

12) Mrs Smith baked 32 pies and 40 puffs. She sold all the pies at $\$w$ each and all the puffs at \$2 each. How much money did she collect altogether?

(1) $\$104\ w$

(2) $\$112\ w$

(3) $\$(32w + 80)$

(4) $\$(40w + 60)$

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13) 10 similar pens cost $14. Helix paid $30 for 30 pens. How much discount was he given?

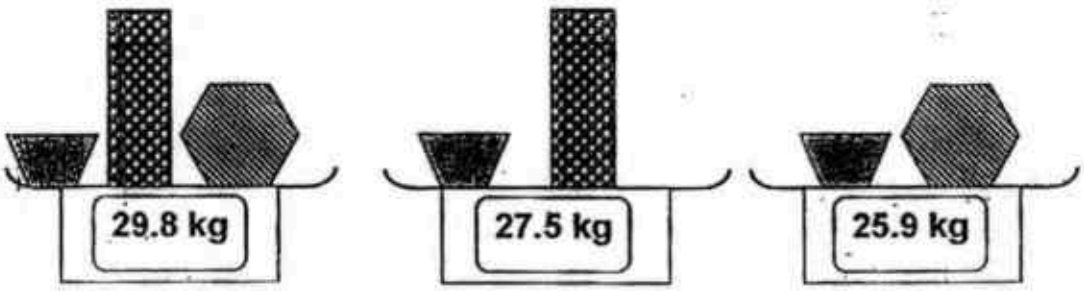
(1) $10

(2) $12

(3) $16

(4) $28

14) Kaili used a digital weighing scale to find the mass of 3 different objects in kilograms. What is the mass of  ?



(1) 12.95 kg

(2) 23.6 kg

(3) 28.65 kg

(4) 31.4 kg

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15) Anthon had a 10-m long string. He cut 5 pieces of string, each measuring $\frac{4}{5}$ m, to tie some boxes. He then cut the remaining string into some pieces each of length $\frac{5}{8}$ m to tie some parcels. How many pieces of string, each $\frac{5}{8}$ m in length, did Anthon cut altogether?

(1) 7

(2) 8

(3) 9

(4) 10

End of Booklet A

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Name : _____ ( )

Class : Primary 6 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

Primary 6 Mathematics

2015 Continual Assessment One

Paper 1

Booklet B

3 March 2015

15 questions
20 marks

TOTAL TIME FOR BOOKLET A & B : 50 MINUTES

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ANSWER ALL QUESTIONS.
THE USE OF CALCULATORS IS NOT ALLOWED.

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Questions **16** to **25** carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

Do not write in this space.

16) Find the value of $46 - 19 + 3 \times 8 \div 4$.

Ans : _____

17) What is the value of $6370 \div 70$?

Ans : _____

18) Express $5\frac{2}{11}$ as a decimal. Leave your answer correct to 2 decimal places.

Ans : _____

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19) What fraction is exactly halfway between $\frac{2}{9}$ and $\frac{3}{9}$?

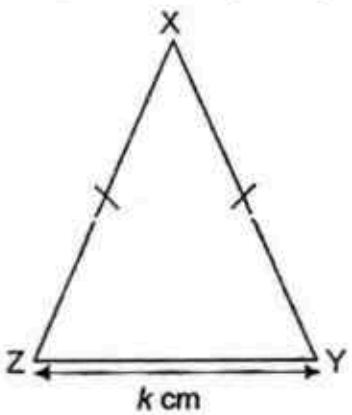
Do not write in this space.

Ans : _____

20) In a class of 40 pupils, 13 boys and 9 girls wear spectacles. What fraction of the class does not wear spectacles? Express your answer in the simplest form.

Ans : _____

21) The figure below shows a triangle XYZ with a perimeter of 45 cm. Find the length of XY. Express your answer in terms of k.



Ans : _____cm

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22) Maggie left her house at 3.40 p.m. and reached her friend's house at 5.25 p.m. How long did she take to travel to her friend's house?

Do not write in this space.

Ans : _____ h _____ min

23) Tosh had 2 ropes with a total length of 10.1 m. When he cut 4.07 m from the longer rope, the length of the remaining rope was twice of the length of the shorter rope. Find the length of the shorter rope.

Ans : _____ m

24) Jaden poured 7.2 ℓ of apple juice into some glasses, each with a capacity of 300 mℓ. How many glasses did Jaden use altogether?

Ans: _____

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25) The table below shows the prices of a particular brand of detergent from 3 different shops. From where would Mrs Yan get the detergent at the lowest price?

Do not write in this space.

	Friendly Mart	Cooler Storage	AA Supermart
Price before discount	$6.50	$7	$10
Discount	No discount	10%	$3 discount

Ans: _____

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Questions 26 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space.

26) Max wrote a string of letters in the following pattern as shown below. If the pattern were to continue and he wrote a total of 65 letters, how many 'L' would there be altogether?

J K K L L L J K K L L L J K K L L L

Ans : _____

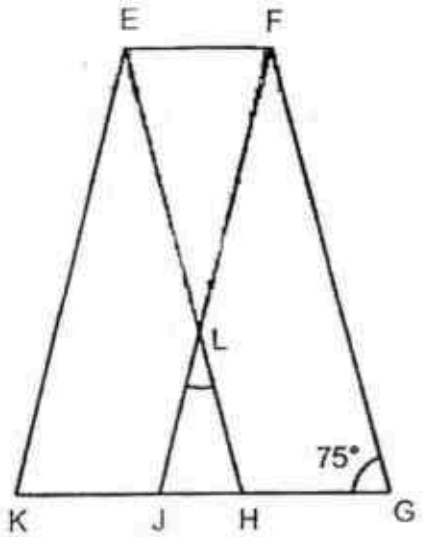
27) Mrs Kong spent $\frac{2}{7}$ of her salary on a camera. She saved $\frac{3}{5}$ of the remainder. Then she distributed the rest equally among her parents and 2 children. What fraction of her salary did each of them receive?

Ans : _____

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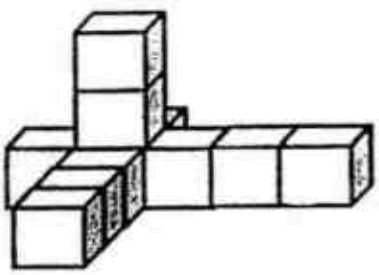
Do not write in this space.

28) The figure below is not drawn to scale. EFJK and EFGH are parallelograms. EFL is an isosceles triangle. Find $\angle JLH$.



Ans : _____ °

29) The solid figure below is made up of unit cubes which have been glued together. What is the minimum number of unit cubes that are needed to build the solid figure into a cuboid?

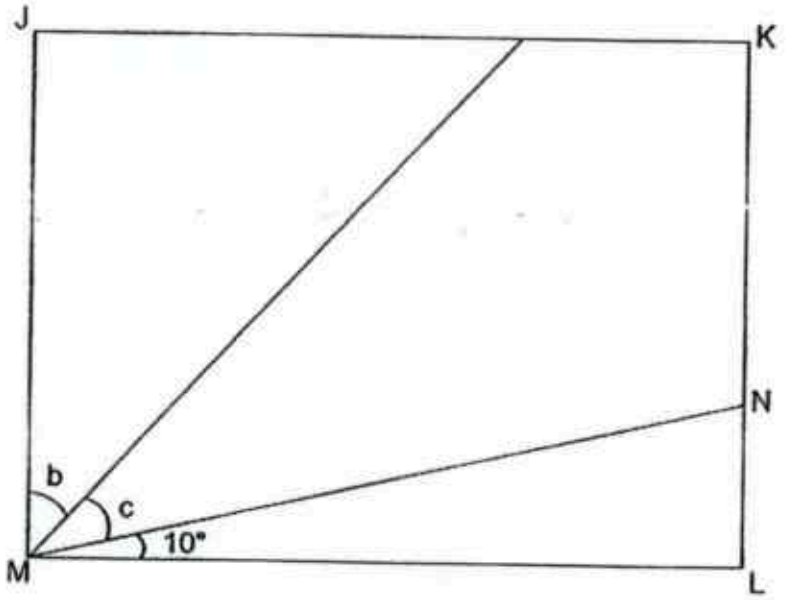


Ans : _____

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Do not write in this space.

30) The figure below is not drawn to scale. JKLM is a rectangle. $\angle b$ is $\frac{2}{3}$ of $\angle c$ and $\angle LMN = 10°$. Find $\angle c$.



Ans : _____ °

End of Paper 1

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Name : _____ ( )

Class : Primary 6 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

Primary 6 Mathematics

2015 Continual Assessment One

Paper 2
3 March 2015

Paper 1	40
Paper 2	60
Total	100

18 QUESTIONS
60 MARKS

TOTAL TIME FOR PAPER 2 : 1 HOUR 40 MINUTES

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
The use of an approved calculator is expected, where appropriate.

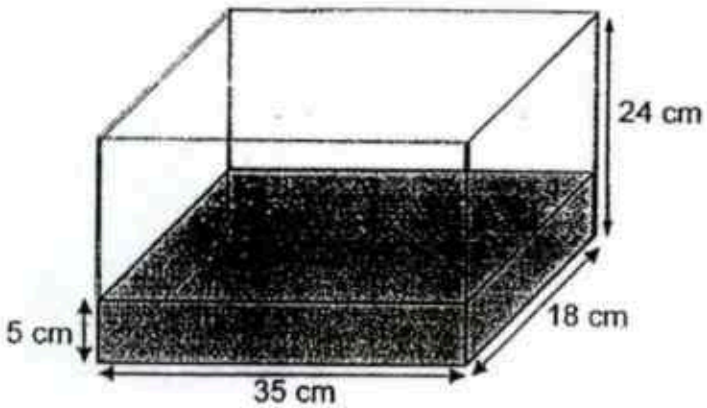
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Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space.

1. How much more water is needed to fill the tank to its brim?



Ans: _____ cm^3 [2]

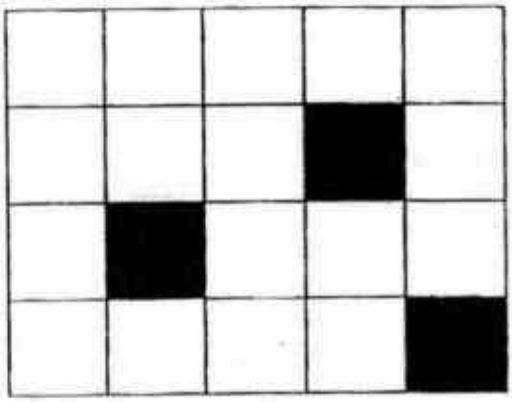
2. Vincce had 60 buttons and Aurelia had 50 buttons. What percentage of her buttons must Aurelia give Vincce so that Vincce had 40 more buttons than Aurelia?

Ans: _____ % [2]

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3. How many more squares must be shaded in the figure below so that the ratio of the number of shaded squares to the number of unshaded squares is 2 : 3?

Do not write in this space



Ans: _____ [2]

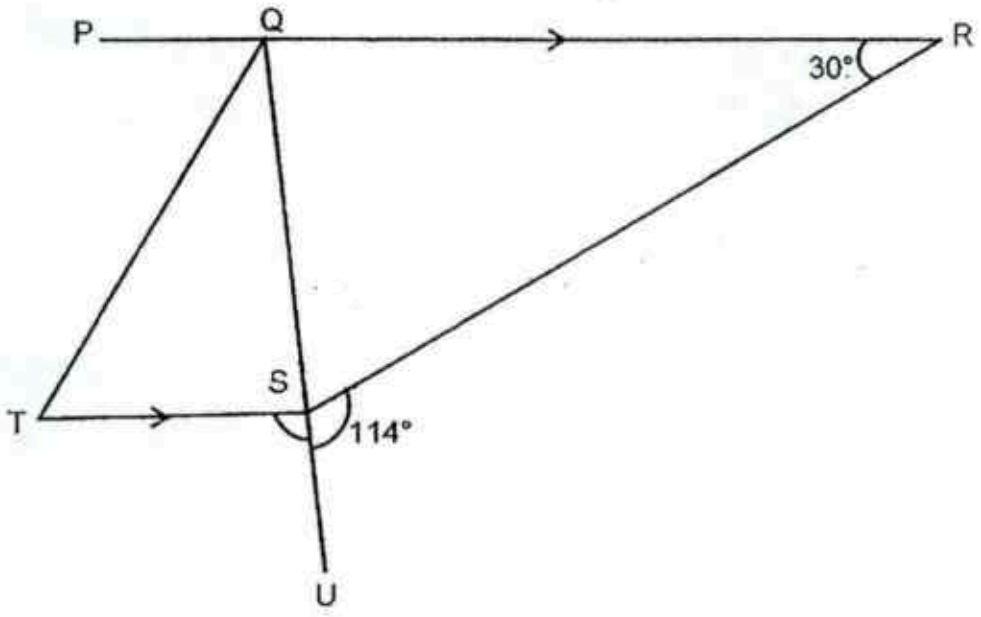
4. A tap takes $\frac{1}{5}$ h to fill $\frac{3}{7}$ of a tank. At this rate, how long does it take to fill the tank completely?

Ans: _____ min [2]

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5. The figure below is not drawn to scale. PQR and QSU are straight lines. Find $\angle TSU$.

Do not write in this space



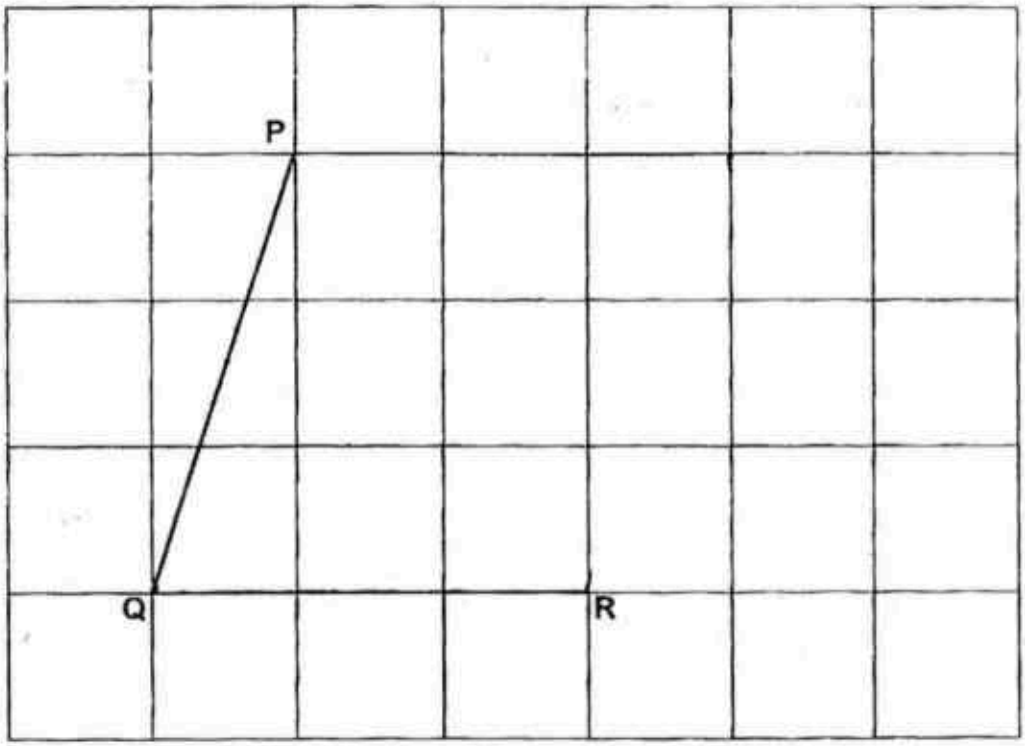
Ans: _____° [2]

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For questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. [50 marks]

Do not write in this space.

6. PQ and QR are the sides of a parallelogram PQRS. Complete the parallelogram in the square grid below and label it. Join Q to S. Measure and write down the length of QS.



Ans: _____ [3]

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7. Nigel bought w burgers at \$6 each and 4 popsicles at \$2 each. He received a change of \$12 from the cashier.

(a) Express the amount of money Nigel gave the cashier in terms of w.

(b) If $w = 5$, what was the amount of money he gave the cashier?

Do not write in this space.

Ans: (a) _____ [1]

(b) _____ [2]

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8. Mr Yoong had some jackets for sale. He sold 104 jackets on Monday. Then he sold 456 jackets on each day from Tuesday to Saturday. He was left with twice of what he had sold from Tuesday to Saturday. How many jackets did Mr Yoong have for sale altogether?

Do not write in this space.

Ans: _____ [3]

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9. Marshall had $8.50 in his coin box. They consisted of 10-cent coins and 20-cent coins. There were 2 more 20-cent coins than 10-cent coins. How many coins did Marshall have in his coin box altogether?

Do not write in this space

Ans: _____ [3]

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10. The table below shows the monthly mobile phone charges.

Charges	Cost
Monthly subscription fee	$ 27.90
First 100 minutes outgoing calls	Free
Every subsequent 1 minute	$ 0.02

Faris used his mobile phone for 10 h 34 min in January. How much was his bill for January?

Do not write in this space

Ans: _____ [3]

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11. At first, Dong Yul had 90 purple, red and green balloons. 12 purple balloons burst. The new ratio of the number of purple balloons to the number of red balloons to the number of green balloons was 14 : 9 : 16. Dong Yul wanted to have as many purple balloons as green balloons. How many more purple balloons did he need to buy?

Ans: _____ [3]

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12. Enid had \$133. She spent $\frac{3}{7}$ of her money on a blouse. She then spent $\frac{4}{5}$ of the remaining money on a book. If she planned to use the rest of the money to buy a pair of roller-skates for \$250, how much more money would Enid need?

Do not write in this space

Ans: _____ [4]

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13. In a museum, the ratio of the number of senior citizens to the number of children was 3 : 7. $\frac{3}{5}$ of the senior citizens were males. There were 66 female senior citizens. $\frac{5}{11}$ of the children were females.

(a) How many senior citizens were there in the museum?

(b) How many females were there altogether?

Do not write in this space.

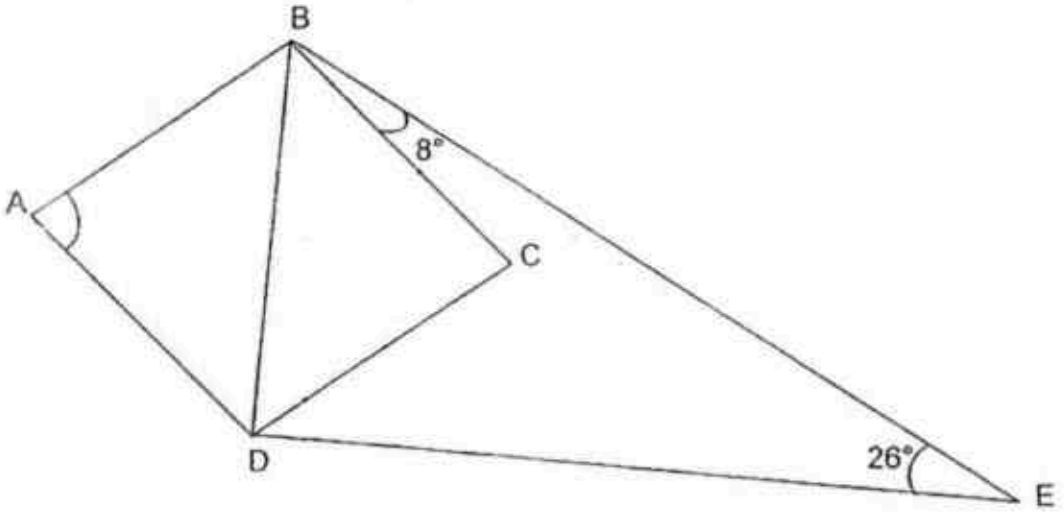
Ans: (a) _____ [2]

(b) _____ [2]

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14. The figure below is not drawn to scale. ABCD is a rhombus and BDE is a right-angled triangle. $\angle CBE = 8°$ and $\angle DEB = 26°$. Find $\angle DAB$.

Do not write in this space.



Ans: _____ [4]

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15. Danniel and Kim shared 360 game cards. Danniel lost $\frac{1}{4}$ of his cards to Kim in a card game. Then he gave half of his remaining cards to his brother, Karl. In the end, Danniel had 78 cards left. How many game cards did Kim have after the game?

Do not write in this space.

Ans: _____ [5]

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16. Jeremy mixed $\frac{3}{4}\ \ell$ of lemon syrup with $\frac{7}{8}\ \ell$ of soda water to make lemonade for a gathering. He served $\frac{4}{5}\ \ell$ of the lemonade to his family and then poured the remaining lemonade into some glasses for his guests. The capacity of each glass is $\frac{1}{10}\ \ell$.

Do not write in this space.

(a) What is the total number of glasses, each containing $\frac{1}{10}\ \ell$ of lemonade, could Jeremy pour the lemonade into?

(b) How much lemonade was left? Give your answer in ℓ.

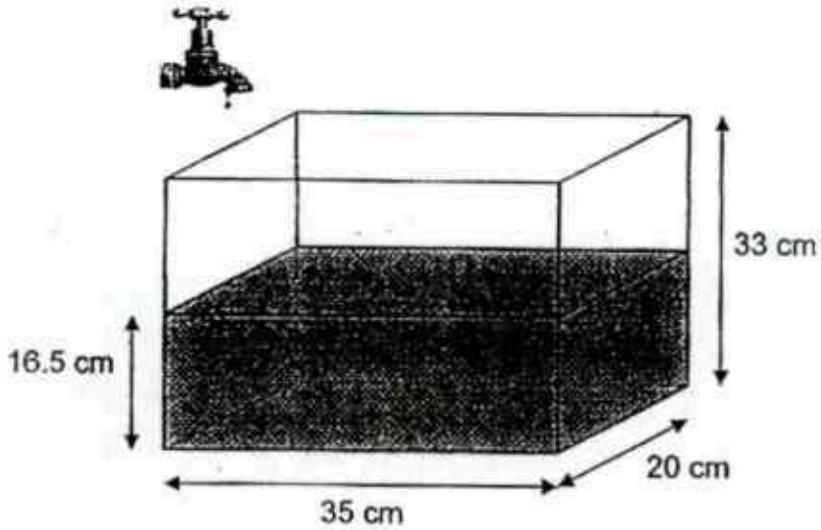
Ans : (a) _____ [3]

(b) _____ [2]

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17. A rectangular tank, 35 cm long, 20 cm wide and 33 cm high, contains some water to a height of 16.5 cm. Then water from a tap flows into the tank at 0.77 ℓ per minute. How long will it take to fill the tank until it is $\frac{4}{5}$ full?

Do not write in this space.



Ans: _____ [5]

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18. Katnisia bought 250 pomelos. She threw 10% of the pomelos away as they were rotten. She sold $\frac{3}{5}$ of the remaining pomelos at \$6 each and the rest at 3 for \$16. How much did she collect altogether from the sale of the pomelos?

Do not write in this space.

Ans: _____ [5]

End of Paper 2

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EXAM PAPER 2015

SCHOOL : CHIJ

SUBJECT : P6 MATHEMATICS

TERM : CA1

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	2	1	4	1	4	1	1	3	4
Q11	Q12	Q13	Q14	Q15					
1	3	2	2	3					

16)33 17)91 18)5.18 19)5/18 20)9/20

21)(45 – k /2)cm 22)1 h 45 min 23)201m 24)24

25)cooler storage 26)32 27)1/14 28)30°

29)64 30)48°

Paper 2

1)35 x 18 x 24 = 15120

35 x 18 x 5 = 3150

15120 – 3150 = 11970cm_3

2)60 + 50 = 110

110 – 40 / 2 = 35

35 + 40 = 75

75 – 60 = 15

15/50 x 100 = 30%

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3)5 x 4 = 20

20 ÷ (2+3) = 4

4 x 2 = 8

8 – 3 = 5

4)1/5h → 60 ÷ 5 = 12

12 ÷ 3 = 4

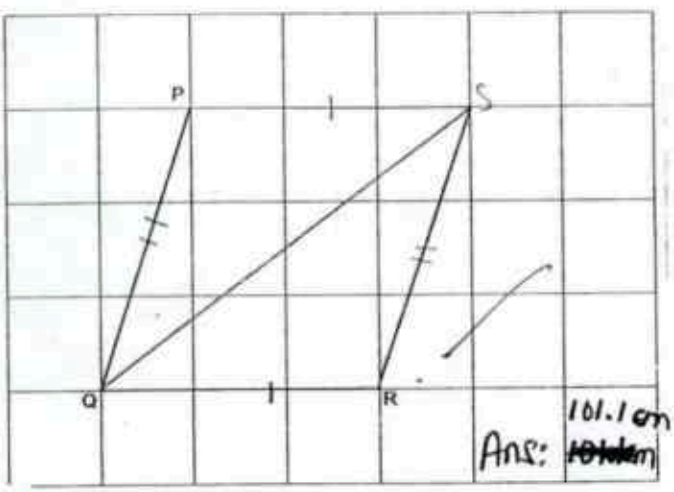
4 x 7 = 28 min

5) ∠QSR → 180 – 114 = 66

∠ RQU → 180 – 66 – 30 = 84

360 – 84 – 66 – 114 = 96°

6)



Ans: 101.1 cm

7)a)4 x $2 = $8

$8 + $12 = $20

$20 + $6 x w = $20 + $6w

= $(20+6w)

b)6 x 5 = 30

$20 + $30 = $50

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8)Tuesday---5days----------Saturday

456 x 5 = 2280

2280 x 2 = 4560

4560 + 2280 + 104 = 6944

9)2 x 20c = 40c

$8.50 – $0.40 = $8.10

$8.10 ÷ ($0.20 + $0.10) = 27

27 x 2 + 2 = 56

10)10h 34min = (10x60) + 34 = 634 min

634 – 100 = 534

534 x $0.02 = $10.68

$10.68 + $27.90 = $38.58

11)90 – 12 = 78

78 ÷ (14+9+16) = 2

16 – 14 = 2

2 x 2 = 4

12)133 ÷ 35 = 3.8

3.8 x 4 = 15.2

250 – 15.2 = $234.8

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13)a)5 – 3 = 2

66 ÷ 2 = 33

33 x (3+2) = 165

b)165 ÷ 3 = 55

55 x 7 = 385

5/11 x 385 = 175

175 + 66 = 241

14)180 – 90 – 26 – 8 = 56

56 x 2 = 112

180 – 112 = 68°

15) ½ x ¾ = 3/8

¾ - 3/8 = 3/8

78 x 2 = 156

156 ÷ 3 = 52

52 x 4 = 208

360 – 208 = 152

152 + 52 = 204

16)a) ¾ + 7/8 = 1 5/8

1 5/8 – 4/5 = 33/40

33/40 ÷ 1/10 = 8¼

b) ¼ x 1/10 = 1/40

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17)33 x 20 x 35 = 23100

4/5 x 23100 = 18480

35 x 20 x 16.5 = 11550

18480 – 11550 = 6930

6930cm_3 = 6.936

6.936 ÷ 0.77 = 9 minutes

18)10/100 x 250 = 25

250 – 25 = 225

3/5 x 225 = 135

135 x $6 = $810

225 – 135 = 90

90 ÷ 3 = 30

30 x $16 = $480

$480 + $810 = $1290

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RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 1
MATHEMATICS (PAPER 1)
PRIMARY 6

Name: _____ ( )

Form Class: P6

Math Teacher: _____

Date: 11 May 2015

Duration: 50 min

Your Score	
Paper 1 (Out of 40 marks)	
Paper 2 (Out of 60 marks)	
Overall (Out of 100 marks)	

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer **ALL** questions and show all working clearly.
4. **NO** calculator is allowed for this paper.

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SECTION A (20 marks)

Questions **1** to **10** carry 1 mark each. Question **11** to **15** carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade your answer (1, 2, 3 or 4) on the OAS provided. All diagrams are not drawn to scale.

---

1. In 724 506, the value of the digit 4 is _____.

   (1) 40

   (2) 400

   (3) 4 000

   (4) 40 000

2. Arrange the following fractions from the greatest to the smallest.

$$\frac{3}{4} \text{ , } \frac{4}{5} \text{ , } \frac{5}{6}$$

   (1) $\frac{4}{5}$, $\frac{3}{4}$, $\frac{5}{6}$

   (2) $\frac{5}{6}$, $\frac{4}{5}$, $\frac{3}{4}$

   (3) $\frac{3}{4}$, $\frac{5}{6}$, $\frac{4}{5}$

   (4) $\frac{4}{5}$, $\frac{5}{6}$, $\frac{3}{4}$

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3. Which of the following is the same as 3050 m?

(1) 3 km 5 m

(2) 3 km 50 m

(3) 30 km 5 m

(4) 30 km 50 m

4. What does the digit 3 in 1.32 stand for?

(1) 3 hundredths

(2) 3 tenths

(3) 3 ones

(4) 3 tens

5. $\frac{5}{8}$ of the diners in a restaurant were adults and the rest were children. There was an equal number of boys and girls. What was the ratio of the number of girls to the number of adults?

(1) 10 : 3

(2) 5 : 3

(3) 3 : 10

(4) 3 : 5

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6. Express $8\frac{5}{6}$ as an improper fraction.

(1) $\frac{19}{6}$

(2) $\frac{46}{6}$

(3) $\frac{48}{6}$

(4) $\frac{53}{6}$

7. Express $1\frac{2}{25}$ as a decimal.

(1) 1.02

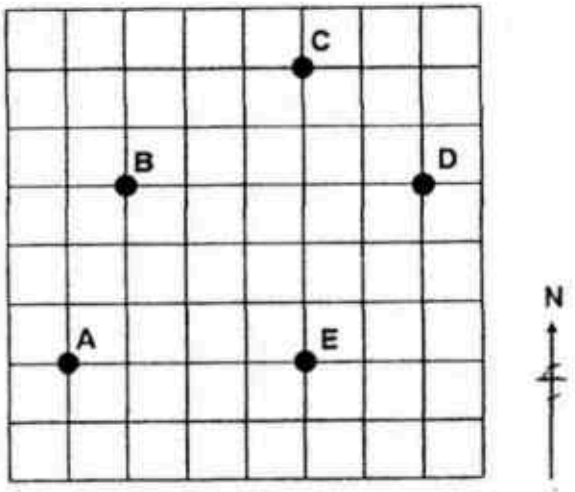
(2) 1.08

(3) 1.2

(4) 1.8

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8. In the square grid below, Point _____ is north-west of Point E.



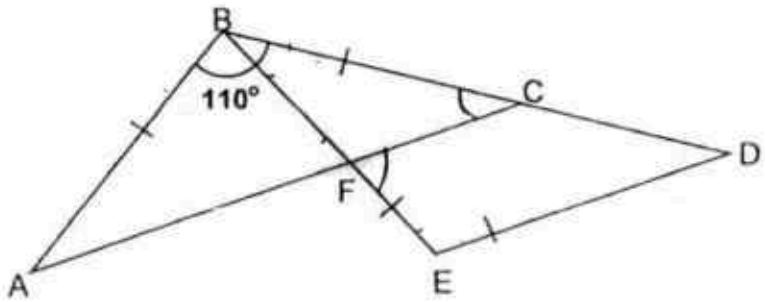
(1) A

(2) B

(3) C

(4) D

9. In the figure below, ABC and BDE are identical triangles. AB = BC = BE = DE. ∠ABC = 110°. Find ∠CFE.



(1) 35°

(2) 60°

(3) 70°

(4) 110°

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10. A cap and a bag cost $80. The cost of the cap is 60% of the cost of the bag.
How much does the cap cost?

(1) $30

(2) $32

(3) $48

(4) $50

11. I am a number between 20 and 50.
I am a multiple of 7 and a factor of 56 and 84.
What number am I?

(1) 21

(2) 28

(3) 35

(4) 42

12. Aubrey and Bala share 20n$. Aubrey gets 4n$ more than Bala.
If $n = 4$, how much money does Bala get?

(1) $16

(2) $32

(3) $48

(4) $64

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13. An empty tank has a rectangular base measuring 40 cm by 20 cm. After 24 litres of water is poured into the tank, it is filled to the brim. Find the height of the tank.

(1) 30 cm

(2) 50 cm

(3) 60 cm

(4) 80 cm

14. There were 40 pupils in class 6H and 16 of them were boys. If $\frac{1}{4}$ of the boys and $\frac{1}{3}$ of the girls did not wear spectacles, find the percentage of pupils in class 6H who did not wear spectacles.

(1) 12%

(2) 30%

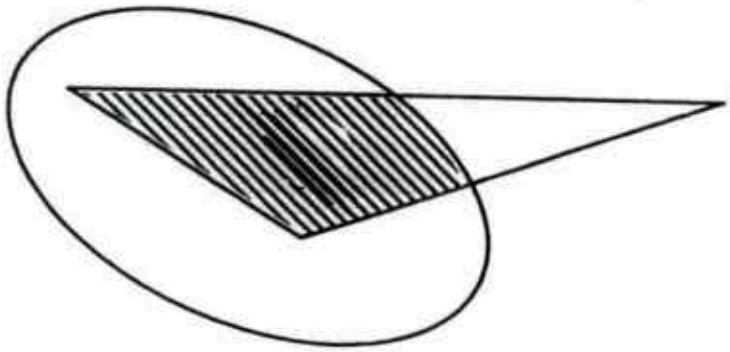
(3) 40%

(4) 70%

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15. The figure below is made up of an oval and a triangle. The ratio of the shaded area to the area of the oval is 5 : 12. The ratio of the area of the triangle to the area of the oval is 3 : 4.

What is the ratio of the shaded area to the total unshaded area in the figure?



(1) 5 : 11

(2) 5 : 14

(3) 5 : 16

(4) 5 : 21

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SECTION B (20 marks)

Questions **16** to **25** carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. Answers in fractions or ratio must be expressed in the simplest form.

16. A concert started at 9.25 a.m. and ended at 12.05 p.m..

    Find the duration of the concert.

Ans: _____ h _____ min

17. Kacey scored an average of 77 marks for two of her Science tests.

    How many marks must Kacey score for her third test if she wants to increase her average mark for the three tests to 80?

Ans: _____

18. Find the value of $56 - 24 \div 8 \times (2 + 11)$.

Ans: _____

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19. $\frac{1}{3}$ of A is equal to $\frac{2}{5}$ of B.

Express B as a fraction of A in the simplest form.

Ans: _____

20. Mrs Yan has 3 kg of flour. She needs $\frac{1}{5}$ kg of flour to bake a cake.

How many of such cakes can she bake?

Ans: _____

21. Express 0.45 as a fraction in the simplest form.

Ans: _____

22. Express $2\frac{1}{5}$ h in minutes.

Ans: _____ min

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23. Mrs Lee bought 7 packets of cornflakes that were on sale. How much did she spend altogether?



Ans: $ _____

24. Siti has $n. Wayne has 5 times as much money as Siti. Lisa has $4 less than Wayne. How much does Lisa have?

Ans: $ _____

25. The cost of present A is $165. The total cost of present B and present C is also $165. What is the average cost of the 3 presents?

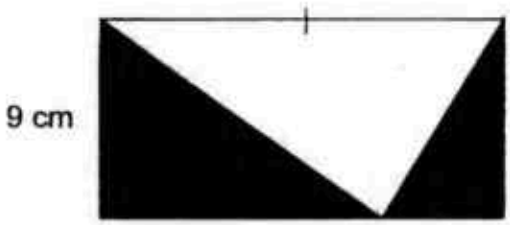
Ans: $_____

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Questions **26** to **30** carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the space provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. Answers in fractions or ratio must be expressed in the simplest form.

---

26. In the rectangle below, the breadth is 9 cm and its length is two times its breadth. Find the shaded area of the rectangle.



Ans: _____ cm^2

27. There were four times as many men as women in a concert hall at first. After 16 men left and 12 women entered the concert hall, there were 8 more men than women remaining in the concert hall.
How many women were there in the concert hall at first?

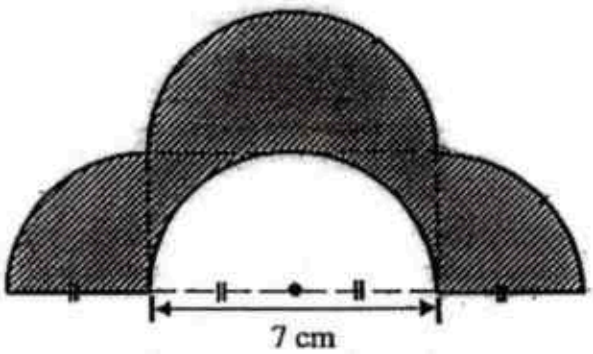
Ans: _____

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28. Lily gave $\frac{3}{5}$ of her cookies to her brother and $\frac{1}{4}$ of the remainder to her mother. She had 60 cookies left in the end. How many cookies did she have at first?

Ans: _____

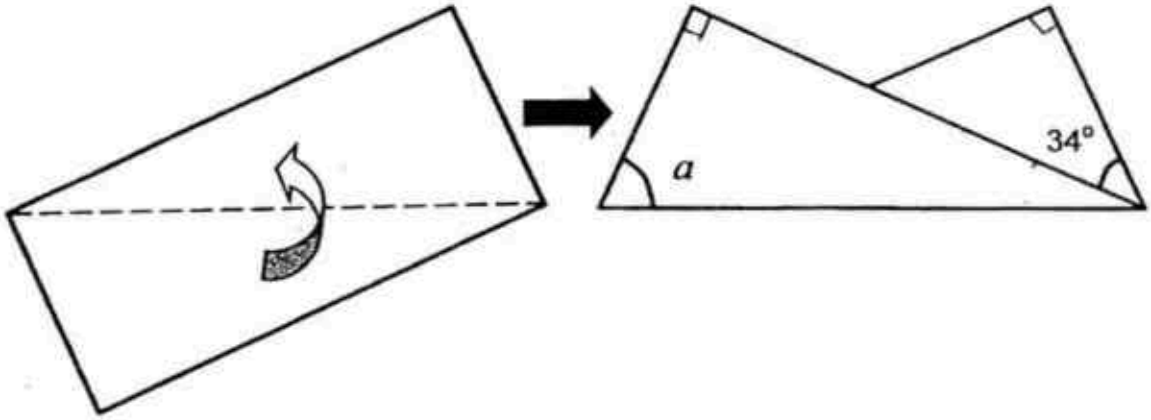
29. The figure below is made up of 2 identical semicircles and 2 identical quadrants. Find the perimeter of the shaded part. (Take $\pi = \frac{22}{7}$)



Ans: _____ cm

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30. Steven has a rectangular piece of paper. He folded it along the dotted line as shown below. Find $\angle a$.



Before folding

After folding

Ans: _____°

End of Paper-
☺ Please check your work carefully ☺

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RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 1
MATHEMATICS (PAPER 2)
PRIMARY 6

Name: _____ ( )

Form class: P6 _____ Math Teacher: _____

Date: 11 May 2015 Duration: 1 h 40 min

Your Paper 2 Score (Out of 60 marks)	

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer **ALL** questions and show all working clearly.
4. The use of calculator is allowed for this paper.

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Questions **1** to **5** carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided.
Figures are not drawn to scale.
For questions which require units, give your answers in the units stated. (10 marks)

---

1. Mrs Wong has p coins. Ravi has **4 more** coins than **Mrs Wong**. Betty has 29 coins. Express the **total** number of coins the three of them have in terms of p.

Ans: _____ [2]

2. May took part in a 3.84 km Fun Walk at an average speed of **80 m/min**. How many minutes did May take to complete the Fun Walk?

Ans: _____ min [2]

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3. Class 6A and Class 6B have the same number of pupils. In class 6A, there are 4 times as many girls as boys. In class 6B, there are 5 times as many girls as boys.

Find the ratio of the number of girls in Class 6A to the number of boys in Class 6B.

Ans: _____ [2]

4. William and Tommy each had a collection of stamps. The ratio of the number of William's stamps to the number of Tommy's stamps was 8 : 9. Then, William transferred $\frac{1}{4}$ of his stamps to Tommy.

Given that Tommy had 396 stamps at first, find the number of stamps that William had in the end.

Ans: _____ [2]

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5. In the morning, there were 150 children at the Sports Camp and 40% of them were girls. Another 15 girls joined the Sports Camp in the afternoon.
Find the percentage increase in the number of girls.

Ans: _____% [2]

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For questions **6** to **18**, show your working clearly in the space provided for each question and write your answers in the spaces provided.
Figures are **not drawn to scale**.
The number of marks available is shown in the brackets [ ] at the end of each question or part-question. (50 marks)

---

6. String A was 10 cm shorter than string B. After an equal length of string was cut off from both strings, the length of string A was $\frac{3}{7}$ of the length of string B.

   What was the length of string B in the end?

Ans : _____ [3]

7. In a library, the ratio of the number of fiction books to the number of non-fiction books was 7 : 4. After more fiction books were added to the library collection, the ratio of the number of fiction books to the number of non-fiction books became 11 : 5.

   If there were 15 400 fiction books in the end, how many fiction books were added?

Ans: _____ [3]

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8. A series of figures is shown below. Each figure below is made up of a number of identical sticks with unit length.

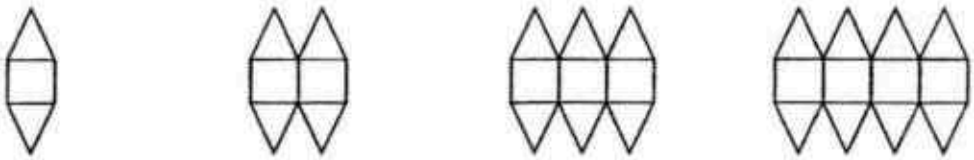


Figure 1 Figure 2 Figure 3 Figure 4

Figure	No. of squares	No. of triangles	Perimeter	No. of sticks
1	1	2	6	8
2	2	4	10	15
3	3	6	14	22
⋮	⋮	⋮	⋮	⋮
6	6	12	26	?

(a) What is the missing number in Figure number 6?

(b) Find the number of sticks for Figure 99:

Ans: (a) _____ [1]

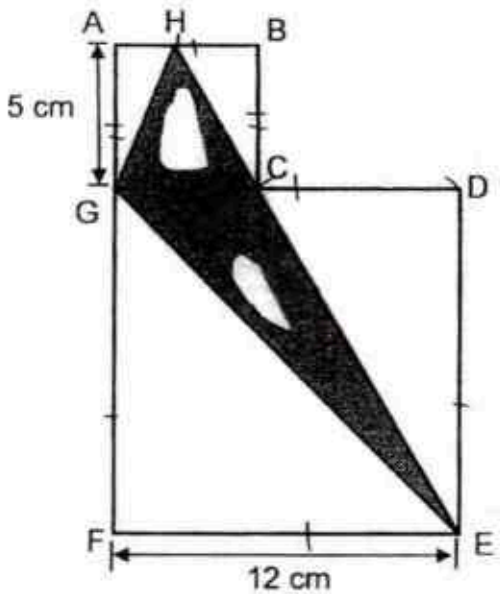
(b) _____ [2]

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9. At a fruit stall, an apple cost 25 cents less than an orange. Mrs Chan spent some money on 24 apples and spent the same amount of money on another 19 oranges. How much did one apple cost?

Ans: _____ [3]

10. In the figure below, ABCG and GDEF are squares.
Find the area of triangle HEG.



Ans : _____ [3]

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11. A container with 600 small marbles has a mass of 10.2 kg. The mass of a similar container with 100 large marbles is 5.7 kg. A large marble is 3 times as heavy as a small marble. Find the mass of the empty container.

Ans: _____ [3]

12. Amos raised 4 times as much money as Billy for a fund raising campaign. When Amos raised another $200 and Billy raised another $140, the amount that Amos raised became three times as much as that of Billy.
What was the total amount of money raised by the two boys at first?

Ans: _____ [4]

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13. Tom and Jack started their 36 km cycling training together at 5.30 a.m..
Tom's average speed was 75 m/min faster than Jack's. When Tom completed the training in 80 minutes, Jack had only completed $\frac{5}{6}$ of the distance.

(a) What was Tom's average speed in m/min?

(b) At what time did Jack complete his training?

Ans: (a) _____ [1]

(b) _____ [3]

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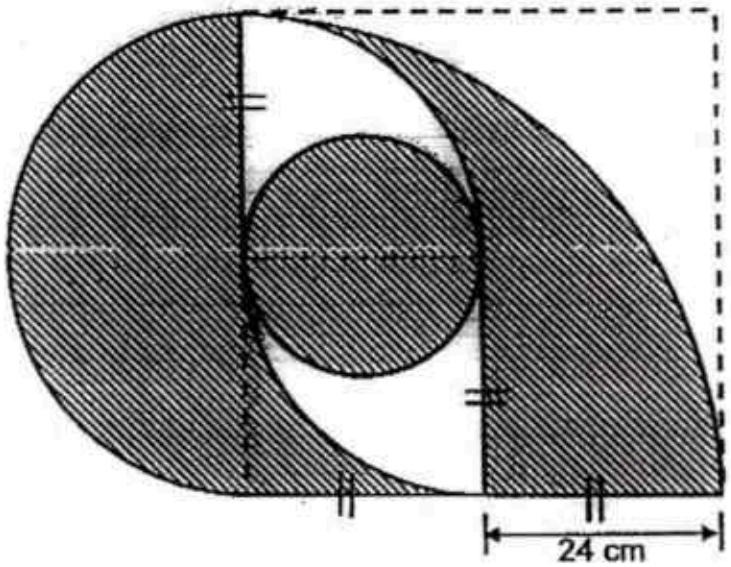
14. Last year, there were 375 volunteers for a Sports Event. This year, the number of male volunteers increased by 20% and the number of female volunteers increased by 30%. In the end, there was an equal number of male and female volunteers this year.

How many female volunteers joined this year?

Ans: _____ [4]

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15. The shaded figure below is formed by quarter circles, a semicircle, a circle and straight lines of 24 cm each. What is the area of the shaded figure?
(Take $\pi = 3.14$)



Ans: _____ [5]

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16. Mrs Seah bought a laptop and a printer at an IT Fair. She paid a total of $1656.60 on these two items after discount. She was given a 15% discount for the laptop. The cost of the laptop after discount was $1234.20. The total discount given for the laptop and printer was $275.40.

Find the percentage discount given for the printer.

Ans: _____. [5]

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17. Miss Ong took out $\frac{5}{6}$ of her money from the bank to buy a badminton racket and a bicycle in the middle of the month. She spent $148 on the badminton racket and the remaining $412 on the bicycle. When she received her monthly salary at the end of the month, she saved $\frac{7}{9}$ of it in the bank. As a result, the amount of money in her bank was increased to $1400.

How much was Miss Ong's monthly salary?

Ans: _____ [5]

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18. A tour group spent a total amount of $896 for cable car tickets to Sentosa.
In the group, the ratio of the number of adults to the number of senior citizens to the number of children was 3 : 2 : 5. The ratio of the amount spent on the senior citizens to the amount spent on the children was 3 : 5. The amount spent on the senior citizens was half the amount spent on the adults.
Given that the price of a child's ticket was $16, find the total number of people in the tour group.

Ans: _____ [5]

End of Paper
Please check your work carefully ☺

Setters: Mr Ho K.H., Miss Chong J.Q. and Mrs J. Seto

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RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT
MATHEMATICS PRIMARY 6
PAPER 1

1) 3 2) 2 3) 2 4) 2 5) 3 6) 4 7) 2 8) 2 9) 3 10) 1 11) 2 12) 2
13) 1 14) 2 15) 1

16) 2h 40min

17) 77x2 = 154
80x3 = 240
240-154 = 86 marks

18) 56-3x13 = 17

19) 1/3 = 2/6
Ans : 5/6

20) 3÷1/5 = 15 such cakes

21) 9/20

22) 2/1/5x60 = 11/5x60 = 132 min

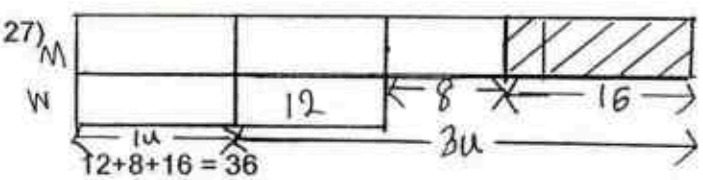
23) $1.05x7 = $7.35

24) $(5n-4)

25) $165x2 = $330
$330÷3 = $110

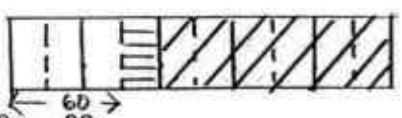
26) 1/2x9x18 = 81 sq cm

27)



12+8+16 = 36
36÷3 = 12 women

28)



3u -- 60
10u -- 10/3x60 = 200 cookies

29) 3/2x2x22/7x7/2 = 33 cm
33+7 = 40 cm

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30) 90°-34° = 56°
56°÷2 = 28°
28°+34° = 62°

PAPER 2

1) p+p+4+29 = (2p+33) coins

2) 3840÷80 = 48 min

3)

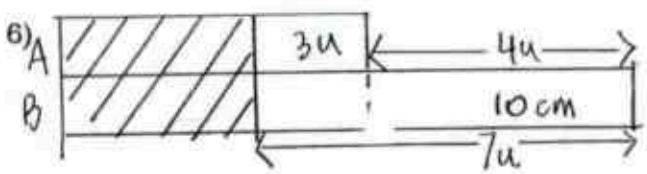
	G : B	total
6A	4 : 1	5
6B	5 : 1	6
6A	24 : 6	30
6B	25 : 5	30

Ans : 24 : 5

4) W : T
8 : 9
6 : 11
9u -- 396
6u -- 6/9x396 = 264 stamps

5) 40/100x150 = 60
15/60x100% = 25%

6)



4u -- 10
7u -- 7/4x10 = 17.5 cm

7) F : NF
7 : 4
11 : 5
35 : 20
44 : 20
44u -- 15400
9u -- 9/44x15400 = 3150 fiction books were added

8a) 8+5x7 = 43 sticks
b) 8+98x7 = 694 sticks

9) 19x$0.25 = $4.75
24-19 = 5
$4.75÷5 = $0.95

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10) 1/2x5x5 = 12.5 sq. cm
1/2x5x12 = 30 sq. cm
12.5+30 = 42.5 sq. cm

11) 100 large = 300 small
300 small = 10.2-5.7 = 4.5 kg
5.7-4.5 = 1.2 kg

12) 1 part = 3x140-200 = $220
$220x5 = $1100

13) 80x75 = 6000m
36000-6000 = 30000m
30000÷80 = 375m/min
a) 375+75 = 450m/min
36000÷375 = 96min
b) 96min after 5.30 a.m. is 7.06 a.m.

14)

M	10 u	2u
F	100%	30%

130% -- 12u
100% -- 100/130x12 = 9/3/13u
12u-9/3/13u = 2/10/13u
9/3/13u+10u = 19/3/13u
19/3/13u -- 375
2/10/13u -- 2/10/13÷19/3/13x375 = 54 women

15) Area of largest quadrant = 1/4x3.14x48x48 = 1808.64 sq. cm
Area of circle = 3.14x12x12 = 452.16 sq.cm
Area of shaded figure = 1808.64+452.16 = 2260.8 sq.cm

16) 85% -- $1234.20
15% -- 15/85x$1234.20 = $217.80
$275.40-$217.80 = $57.60
$1656.60-$1234.20 = $422.40
$422.40+$57.60 = $480
57.60/480x100% = 12%

17) $148+$412 = $560
5u -- $560
1u -- 1/5x$560 = $112
$1400-$112 = $1288
7 parts -- $1288
9 parts -- 9/7x$1288 = $1656

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18) A : S : C
3 : 2 : 5 (number of tickets)
6 : 3 : 5 (amount of money)
6+3+5 = 14
896÷14 = 64
64x5 = 320
320÷16 = 20 children
5u – 20
10u – 10/5x20 = 40 people

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NANYANG PRIMARY SCHOOL

FIRST SEMESTRAL EXAMINATION 2015

PRIMARY 6

MATHEMATICS

PAPER 1

DURATION: 50 MINUTES

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PAPER 1 (BOOKLET A)

Questions **1** to **10** carry 1 mark each. Questions **11** to **15** carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

(20 marks)

---

1 Find the sum of all the factors of 16.

(1) 17

(2) 20

(3) 31

(4) 35

2 Find the value of $15 \div 4$.

(1) 3.65

(2) 3.70

(3) 3.75

(4) 4.25

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3 Arrange the following fractions from the greatest to the smallest.

$$\frac{7}{5}, \quad 1\frac{2}{3}, \quad \frac{7}{4}$$

(1) $1\frac{2}{3}, \quad \frac{7}{5}, \quad \frac{7}{4}$

(2) $\frac{7}{4}, \quad \frac{7}{5}, \quad 1\frac{2}{3}$

(3) $\frac{7}{5}, \quad 1\frac{2}{3}, \quad \frac{7}{4}$

(4) $\frac{7}{4}, \quad 1\frac{2}{3}, \quad \frac{7}{5}$

4 Jane had 6p stamps. After she had sold $\frac{2}{3}$ of her stamps, she gave 1 stamp to her brother. Her mother then gave her another 3p stamps. How many stamps did Jane have at the end?

(1) $2p - 1$

(2) $5p - 1$

(3) $6p - 1$

(4) $7p - 1$

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5 Soo Hyun had 1800 beads. The number of beads that he had was 80% of the number of beads that Woo Bin had. How many beads did Woo Bin have?

(1) 720

(2) 1000

(3) 1440

(4) 2250

6 Jun Xi received a salary of $2000 in April. He received a salary of $2500 in May. What was the percentage increase in his salary?

(1) 20%

(2) 25%

(3) 80%

(4) 125%

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7 The ratio of Vick's allowance to Nick's allowance was 7 : 4. Nick had $84. How much did the two boys have altogether?

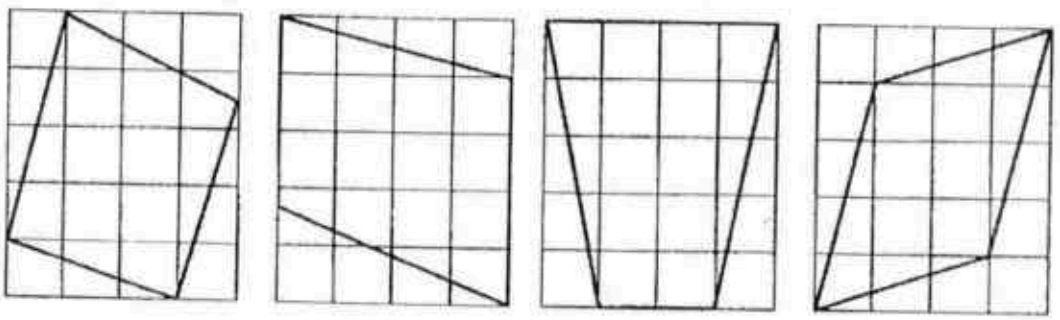
(1) $36

(2) $63

(3) $132

(4) $231

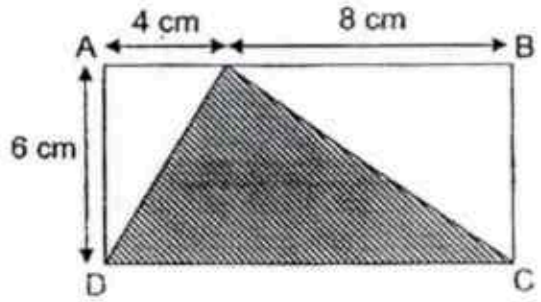
8 In the square grid below, which shape shows a parallelogram?



(1) (2) (3) (4)

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9 In the figure below, ABCD is a rectangle. Find the area of the shaded triangle.



(1) 12 cm²

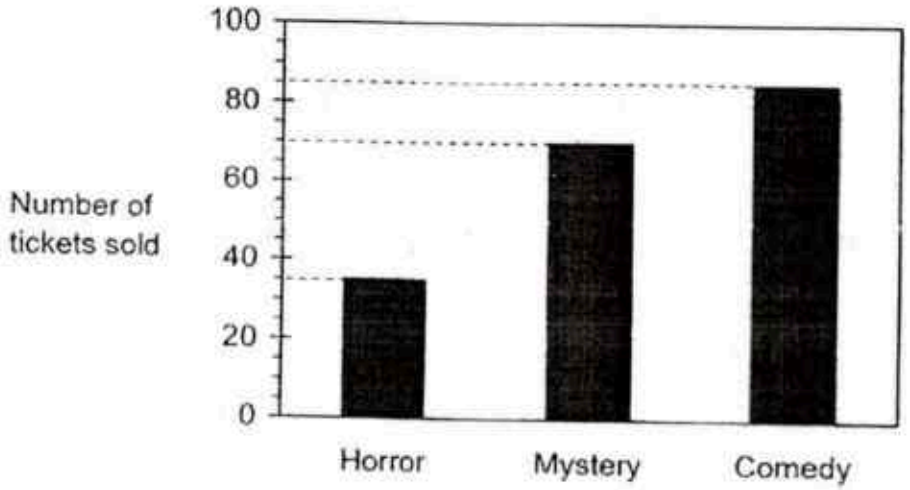
(2) 24 cm²

(3) 36 cm²

(4) 72 cm²

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10 The bar graph below shows the number of movie tickets sold for each movie category in one day. How many movie tickets were sold altogether?



(1) 180

(2) 185

(3) 190

(4) 195

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11 Find the value of $\frac{14}{5} \times \frac{5}{6}$.

(1) $2\frac{1}{2}$

(2) $2\frac{1}{3}$

(3) $2\frac{2}{3}$

(4) $2\frac{9}{11}$

12 Arrange the following numbers from the smallest to the greatest.

8.101, 8.01, 8.11

(1) 8.01, 8.101, 8.11

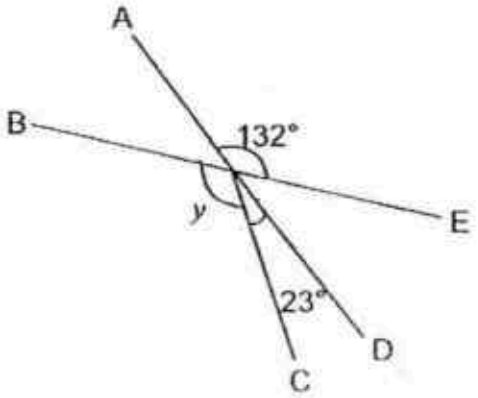
(2) 8.101, 8.11, 8.01

(3) 8.01, 8.11, 8.101

(4) 8.11, 8.01, 8.101

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13 In the figure below, AD and BE are straight lines. Find $\angle y$.



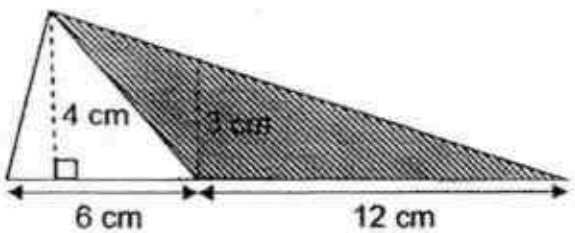
(1) 109°

(2) 119°

(3) 132°

(4) 157°

14 The figure below is made up of 2 triangles. Find the difference between the area of the shaded triangle and the area of the unshaded triangle in the figure below.



(1) 6 cm²

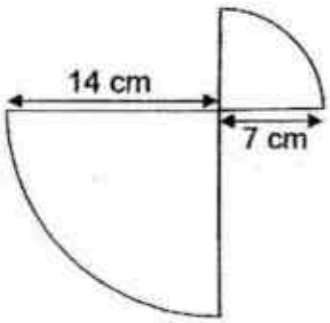
(2) 12 cm²

(3) 18 cm²

(4) 30 cm²

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15 The figure below is made up of two quadrants of different sizes. What is the perimeter of the figure? (Take $\pi = \frac{22}{7}$)



(1) 33 cm

(2) 54 cm

(3) 75 cm

(4) 86 cm

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Name: _____( ) Class: Pr 6 ( )

PAPER 1 (BOOKLET B)

Questions **16** to **25** carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

---

16 Simplify $12c - 5 - 4c \times 2$.

Ans: _____

---

17 Find the sum of 4294 and 716.

Ans: _____

---

18 Insert a pair of brackets, ( ), in the number statement below to make it a correct number statement.

$$16 + 8 \div 4 \times 2 - 7 = 10$$

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19 Express 4.64 as a mixed number in its simplest form.

Ans: _____

---

20 Round off 2.196 to 2 decimal places.

Ans: _____

---

21 Hyun Bin bought a bag at $819 after a 10% discount. What was the usual price of the bag before discount?

Ans: $ _____

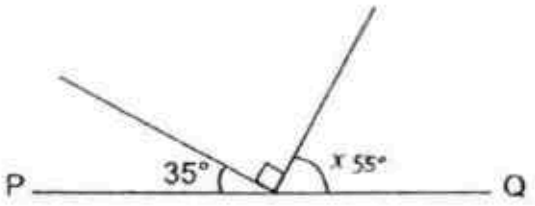
---

22 The ratio of the length of a rectangle to its breadth is 8 : 5. The perimeter of the rectangle is 130 cm. What is the length of the rectangle?

Ans: _____ cm

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23 In the figure below, PQ is a straight line. Find $\angle x$.



Ans: _____ °

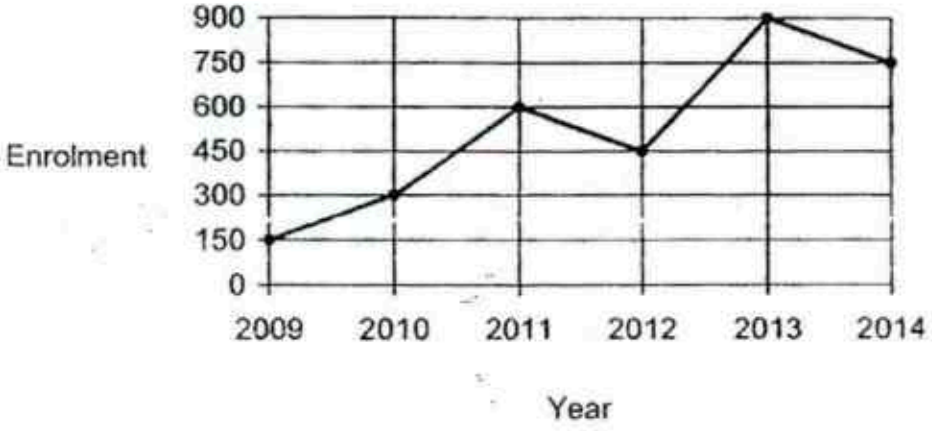
---

24 How many months are there in $3\frac{3}{4}$ years?

Ans: _____

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25 The line graph shows the total enrolment of pupils of an enrichment centre from 2009 to 2014. In which year was the enrolment of the centre 3 times its enrolment in 2009?



Ans: Year _____

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Questions **26** to **30** carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

---

26 Sanjeev packs 11 kg of flour into small packets. Each packet contains $\frac{2}{3}$ kg of flour. How many of such small packets of flour are there?

Ans: _____

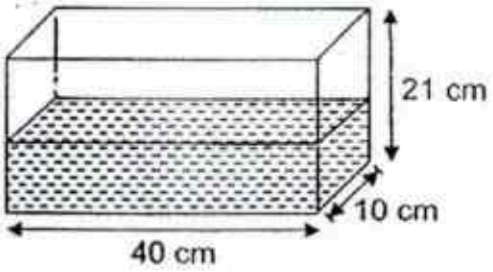
---

27 The total mass of 2 identical packets of chocolates is 1.45 kg. What is the total mass of 10 such packets of chocolates?

Ans: _____ g

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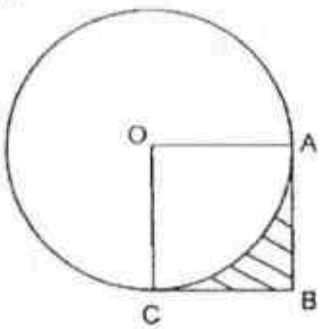
28 The tank was filled to the brim after 4*l* of water was poured in. What was the height of the water in the tank before the water was poured in?



Ans: _____ cm

---

29 The figure below shows a circle and a square OABC. The area of the square is 144 cm². What is the area of the shaded part? (Leave your answer in terms of π.)



Ans: _____ cm²

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30 The total mass of 2 boys is 94 kg. The average mass of 3 girls is 42 kg. Find the average mass of the 5 children.

Ans: _____ kg

END OF PAPER

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NANYANG PRIMARY SCHOOL

FIRST SEMESTRAL EXAMINATION 2015

PRIMARY 6

MATHEMATICS

PAPER 2

DURATION: 1 HOUR 40 MINUTES

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PAPER 2

Questions **1** to **5** carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

---

1 Find the value of $\frac{3y}{4} + 2y - 6$ when $y = 5$.

Ans: _____

---

2 There were 60 members in the Drama Club. 45 of them were girls. What was the ratio of the number of boys to the number of girls? Leave your answer in its simplest form.

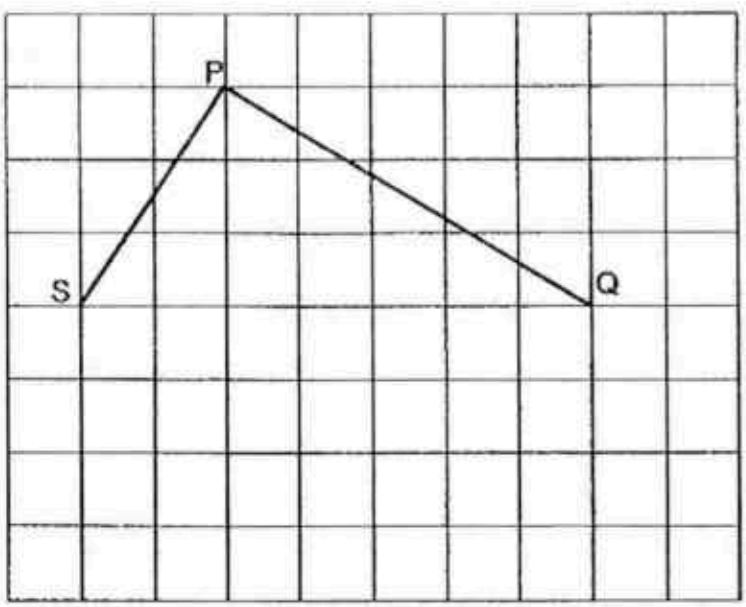
Ans: _____

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3 The ratio of En Xi's height to Jun Xi's height is 2 : 3. The ratio of Jun Xi's height to You Jie's height is 4 : 5. How many times is You Jie as tall as En Xi? Leave your answer as a mixed number in its simplest form.

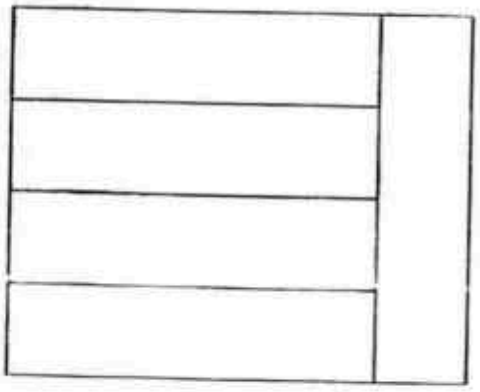
Ans: _____

4 In the square grid below, SP and PQ are two sides of rectangle PQRS. Complete the rectangle by drawing the other two sides in the square grid below.



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5 The figure below is made up of 5 identical rectangles. The perimeter of the figure is 360 cm. Find the length of each of the rectangles.



Ans: _____ cm

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For questions **6** to **18**, show your working clearly in the space provided for each question and write your answers in the spaces provided.
The number of marks available is shown in brackets [ ] at the end of each question or part-question.

(50 marks)

---

6 The cost of 4 pears and 3 apples is \$5.40. The cost of a pear and 2 apples is \$2.10. Find the difference between the price of an apple and the price of a pear.

Ans: _____ [3]

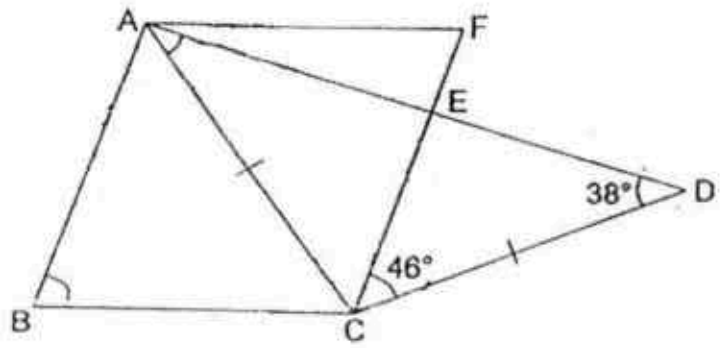
---

7 The ratio of the number of boys to the number of girls in 6A was 3 : 2. The ratio of the number of boys to the number of girls in 6B was 3 : 4. The number of girls in both classes was the same. What was the ratio of the number of boys in 6A to the total number of boys in both classes? Give your answer in its simplest form.

Ans: _____ [3]

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8 In the figure below, ABCF is a rhombus and ACD is an isosceles triangle. $\angle CDE = 38°$ and $\angle ECD = 46°$.



(a) Find $\angle ACD$.

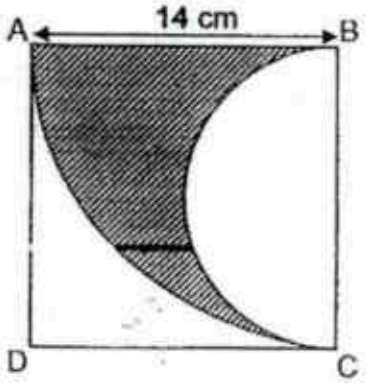
(b) Find $\angle ABC$.

Ans: (a) _____ [1]

(b) _____ [2]

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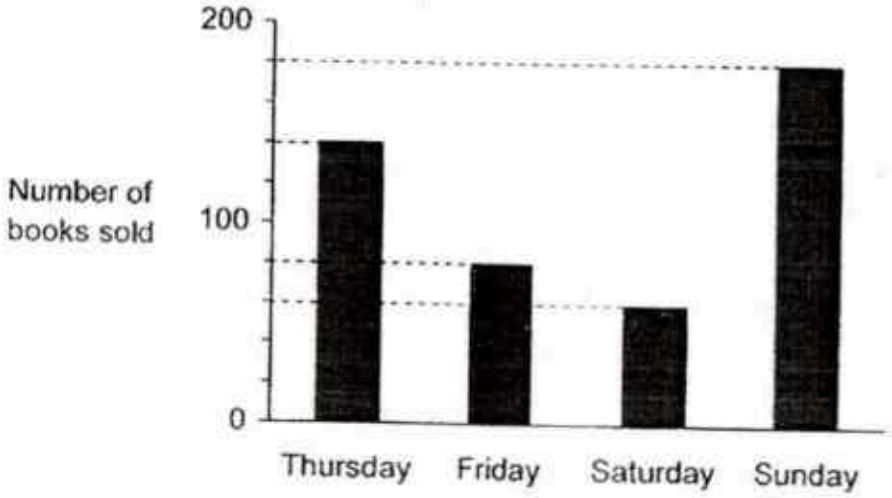
9 The figure below is made up of square ABCD, a quadrant and a semicircle. What fraction of the square is shaded? Give your answer in its simplest form. (Take $\pi = \frac{22}{7}$)



Ans: _____ [3]

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10 The graph below shows the number of books sold in a store during a sale from Thursday to Sunday.



(a) How many more books were sold on Thursday than on Friday?

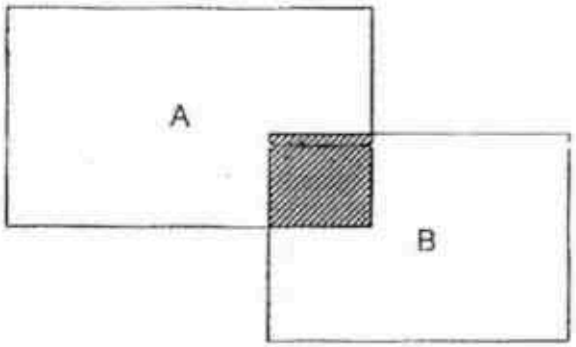
(b) What was the percentage increase in the number books sold on Sunday than Saturday?

Ans: (a) _____ [1]

(b) _____ [2]

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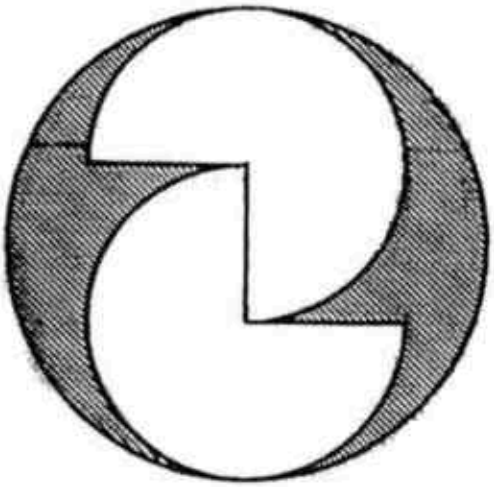
11 The figure below shows 2 overlapping rectangles, A and B. Area of rectangle A is $\frac{10}{9}$ the area of rectangle B. 20% of rectangle A is shaded. The total unshaded area of rectangles A and B is 450 cm². What is the area of the shaded part?



Ans: _____ [4]

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12 The figure below shows a circle and two identical $\frac{3}{4}$ circles. The radius of each of the $\frac{3}{4}$- circles is 9 cm. Using the calculator value of π, find the perimeter of the shaded region. Correct your answer to 2 decimal places.



Ans: _____ [4]

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13 Remi had the same number of blue beads, yellow beads and green beads at first. After 128 yellow beads, some blue beads and green beads were given away, there were 251 beads left. The number of yellow beads left was 78 more than the number of green beads left. There were thrice as many yellow beads as blue beads left. How many blue beads did Remi give away?

Ans: _____ [4]

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14 A certain number of buses had been booked for a school outing for group of students. If each bus were to take 35 students, 15 students would not be able to get up the bus. If each bus were to take 40 students, there would be one empty bus left.

(a) How many buses were booked for the outing?

(b) How many students were going on the outing?

Ans: (a) _____ [3]

(b) _____ [1]

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15 Shu Yan spent $\frac{3}{4}$ of her money to buy a purse. Tom spent the same amount of money as Shu Yan to buy a wallet and had $\frac{3}{5}$ of his money left. In the end, the amount of money Tom had left was $60.20 more than what Shu Yan had left. How much money did Shu Yan have at first?

Ans: _____ [4]

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16 Naomi, Zec and Julian bought a present for their mother. Naomi paid $\frac{1}{5}$ of the amount paid by Zec and Julian. Zec paid $\frac{2}{7}$ of the total cost of the present. Julian paid \$64 more than Naomi for the present.

(a) How much did Naomi pay for the present?

(b) What was the cost of the present?

Ans: (a) _____ [4]

(b) _____ [1]

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17 Shini used some flour to bake some pies to sell. $\frac{4}{9}$ of the pies were chicken pies and the rest were apple pies. After selling $\frac{3}{4}$ of the chicken pies and 144 apple pies, she had $\frac{1}{6}$ of the pies left. Shini used $\frac{2}{5}$ kg of flour to bake each pie. How much flour did she use to bake all the pies at first? Leave your answer as a decimal in kg.

Ans: _____ [5]

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18 At a musical, tickets were sold at \$20, \$30 and \$50 respectively. The number of \$20-tickets sold was $\frac{1}{5}$ of the total number of tickets sold. The ratio of the number of \$30-tickets sold to \$20-tickets sold was 3 : 2. The amount collected from the \$50-tickets was \$6300 more than the amount collected from the \$20-tickets. What was the total amount of money collected from the sale of the musical tickets?

Ans: _____ [5]

END OF PAPER

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EXAM PAPER 2015

SCHOOL : NANYANG

SUBJECT : P6 MATHEMATICS

TERM : SA1

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	3	4	2	4	2	4	4	3	3
Q11	Q12	Q13	Q14	Q15					
2	1	1	2	3					

16)4c – 5 17)5010 18)16+8 ÷ (4x2) – 7 = 10 19)$4\frac{16}{25}$

20)2.20 21)$910 22)40cm 23)55° 24)45

25)2012 26)16 27)7250g 28)11cm

29)(144 – 36 Π)cm^2 30)44kg

Paper 2

1)3y→3 x 5 = 15

2y→2 x 5 = 10

15/4 + 10 – 6 = 7¾

2)60 – 45 = 15 (Boys)

6)$5.40 – $2.10 = $3.30 (3p+1A)

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B : G

15: 45

1 : 3

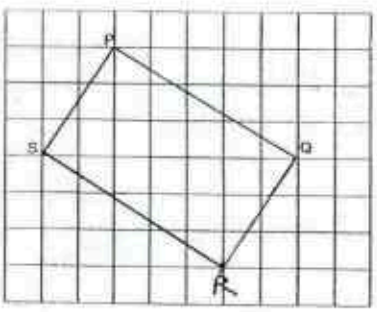
3)E : J J : Y

2 : 3 4 : 5

8 : 12 12 : 15

15 ÷ 8 = 1 7/8

4)



5)4u + 1u = 5u

4u + 5u + 4U + 5U = 18U

18U → 360

1u → 360 ÷ 18 = 20

4u → 20 x 4 = 80cm

$3.30 ÷ 3 = $1.10 (1p+1/3A)

$2.10 – $1.10 = $1 (1 2/3 A)

1 2/3 = 5/3

$1 ÷ 5 = $0.20 (1/3A)

$0.20 x 3 = $0.60 (1A)

$1.10 – $0.20 = $0.90 (1P)

$0.90 – $0.60 = $0.30

7)B : G B : G

3 : 2 3 : 4

6 : 4

6A : total

B : B

6 : 9

2 : 3

6u + 3u = 9u (total boys in 6A and 6B)

8)a) ∠ACD → 180° – 38° – 38° = 104°

b) ∠ABC → 180° – 58° – 58° = 64°

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9)14 x 14 = 196

¼ x 22/7 x 14 x 14 = 154

14 ÷ 2 = 7

½ x 22/7 x 7 x 7 = 77

154 – 77 = 77

77/196 = 11/28

10)140 – 80 = 60

180 – 60 = 120

120/60 x 100% = 200%

a)60 b)200%

11)20% x 10u = 2u

19u – 2u – 2u = 15u

15u → 450

1u → 450 ÷ 15 = 30

2u → 30 x 2 = 60cm_2

12)9 x 3 = 27

Π x 27 = 27Π

9 x 2 = 18

¾ x Π x 18 = 13.5Π

27Π + 13.5Π + 9 + 9 = 187.646.... $\approx$187.65cm

13)1u + 3u +(3u – 78) → 251

7u – 78 → 251

7u → 251 + 78 = 329

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1u→329 ÷ 7 = 47

2u→47 x 2 = 94

94 + 128 = 222

14)35u + 15 = 40u – 40

40u – 35u→15 + 40

5u→55

1u→55 ÷ 5 = 11

11 x 35 = 385

385 + 15 = 400

a)11 b)400

15)1 – 3/5 = 2/5

2/5 of T→¾ of SY

6/15 of T→6/8 of SY

3/5 x 15u = 9u

1 – ¾ = ¼

¼ x 8u = 2u

9u – 2u = 7u

7u→$60.20

1u→$60.20 ÷ 7 = $8.60 8u→$8.60 x 8 = $68.80

16)Z : N+J : total N : Z : J

2 : 5 : 7 7 : 12 : 23

12 : 30 : 42

J→30u – 7u = 23u

23u – 7u = 16u

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16u→$64

1u→$64 ÷ 16 = $4

7u→$4 x 7 = $28 (N)

42u→$4 x 42 = $168 (total)

a)$28 b)$168

17) ¾ x 4/9 = 1/3

1 – 1/3 – 1/6 = ½

½→144

2/2→144 x 2 = 288

288 x 2/5 = 115.2kg

18)10u – 5u = 5u ($50)

Units x $-->total

2u x $20→$40u

3u x $30→$90u

5u x $50→$250u

$250u – $40u = $210u

$210u→$6300

1u→$6300 ÷ $210 = 30

2u→30 x 2 = 60

60 x $20 = $1200

3u→30 x 3 = 90

90 x $30 $2700

5u→5 x 30 = 150

150 x $50 = $7500

$1200+$2700+$7500 = $11400

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NAN HUA PRIMARY SCHOOL
SEMESTRAL EXAMINATION 1 – 2015
PRIMARY 6

MATHEMATICS

Paper 1

Section A: 15 Multiple Choice Questions (20 marks)

Section B: 15 Short Answer Questions (20 marks)

Total Time for Paper 1: 50 minutes

INSTRUCTION TO CANDIDATES

1. Write your name and index number in the space provided.
2. Do not turn over the page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Shade your answers in the Optical Answer Sheet (OAS) provided for Questions 1-15.
6. You are not allowed to use calculator for Paper 1.

Marks Obtained

Paper 1	Booklet A		/ 40
	Booklet B		
Paper 2			60
Total			/ 100

Name : _____ ( )

Class : 6_____

Date : 11 May 2015 Parent's Signature : _____

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Section A (20marks)
Questions **1** to **10** carry 1 mark each. Questions **11** to **15** carry 2 marks each.
For each question, four options are given. One of them is the correct answer.
Make your choice and shade your answer (1, 2, 3 or 4) on the Optical Answer Sheet.

1. Which digit in 96.78 is in the tenths place?

   (1) 6

   (2) 7

   (3) 8

   (4) 9

2. Simplify $9c + 6 - c - 2$

   (1) $8c + 4$

   (2) $8c - 4$

   (3) $10c + 8$

   (4) $10c - 8$

3. In 2014, the estimated number of cars in Singapore was 1 248 807.
   Round off this number to the nearest thousand.

   (1) 1 200 000

   (2) 1 249 000

   (3) 1 250 000

   (4) 1 300 000

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4. 5 boys shared half a pie equally. What fraction of the original pie did each boy get?

(1) $\frac{5}{2}$

(2) $\frac{2}{5}$

(3) $\frac{1}{5}$

(4) $\frac{1}{10}$

5. Express $1\frac{3}{20}$ as a decimal.

(1) 1.32

(2) 1.15

(3) 1.3

(4) 1.2

6. If Alice walks 2 km in 12 minutes, how far can she walk in one hour at this rate?

(1) 5 km

(2) 6 km

(3) 10 km

(4) 12 km

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7. Clara has 10% more stickers than Hugo. What is the ratio of the number Hugo's stickers to the number of Clara's stickers?

(1) 9 : 10

(2) 10 : 9

(3) 10 : 11

(4) 11 : 10

8. Jamie attended a concert at 7.40 p.m. The concert lasted 2 h 20 min. At what time (in 24-h clock) did the concert end?

(1) 10 00

(2) 11 00

(3) 21 00

(4) 22 00

9. Janet spent 30% of her pocket money and still had $14 left. How much did she spend?

(1) $6

(2) $2

(3) $10

(4) $20

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10. Ann and Benny shared the total cost of a gift. Ann paid $\frac{3}{10}$ of the cost plus another $10. Benny paid $25. How much did the gift cost?

(1) $5

(2) $25

(3) $35

(4) $50

11. 60% of a class were boys and the rest were girls. All the boys and 25% of the girls like to play soccer. What percentage of the class like to play soccer?

(1) 10%

(2) 15%

(3) 70%

(4) 85%

12. The ratio of Ken's age to Sam's age this year is 6 : 5. Ken is 3 years older than Sam. What was Sam's age last year?

(1) 14 years old

(2) 15 years old

(3) 17 years old

(4) 18 years old

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13. Gerald reads 120 pages of a book in 4 days. If he always reads 6 more pages than the previous day, find the number of pages he reads on the first day.

(1) 21

(2) 24

(3) 30

(4) 36

14. The average mass of 3 girls, Angel, Belinda and Cherry is 42 kg. Angel is 3 kg lighter than Belinda. The total mass of Angle and Belinda is the same as the mass of Cherry. What is the mass of Angel?

(1) 27 kg

(2) 30 kg

(3) 33 kg

(4) 41 kg

15. Daphne spent $\frac{3}{4}$ of her money to buy 15 similar books.

She wanted to buy another 10 such books but found that she was short of $30. What was the price of one such book?

(1) $6

(2) $2

(3) $3

(4) $10

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Section B (20 marks)

Questions **16** to **25** carry 1 mark each. Write your answers in the spaces provided.
For questions which require units, give your answers in the units stated. [10 marks]

Do not write in this space

16. Find the value of $20 \div \frac{3}{5}$

Give your answer in mixed number in the simplest form.

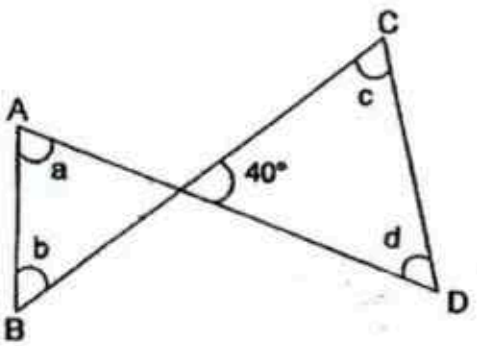
Ans : _____

17. Find the value of $7 + \frac{2a}{12}$ when $a = 3$.

Give your answer as a mixed number in the simplest form.

Ans : _____

18. The figure below is not drawn to scale. AD and BC are straight lines.
Find the sum of angles a, b, c and d.



Ans: _____ °

Subtotal	/ 3

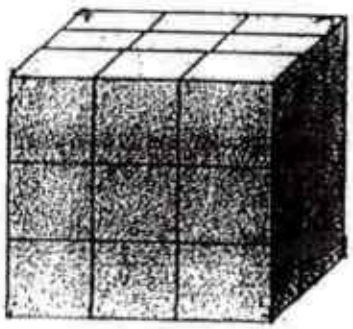
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19. Caleb cycled 12 km to a park in 2 hours and then returned home by the same route in half the time. What was his average speed for the whole journey?

Do not write in this space

Ans : _____ km/h

20. The solid below was dipped into a can of grey paint. It was then cut into cubes along the lines as shown. How many cubes had exactly 3 of the faces painted grey?



Ans : _____

21. Mrs Raja has $\frac{11}{12}$ kg of flour. She repacks them into packets of $\frac{1}{6}$ kg each. How many such packets does she get?

Ans : _____

Subtotal	/ 3

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22. Amy's transport allowance is decreased from $150 to $120. What is the percentage decrease in her transport allowance?

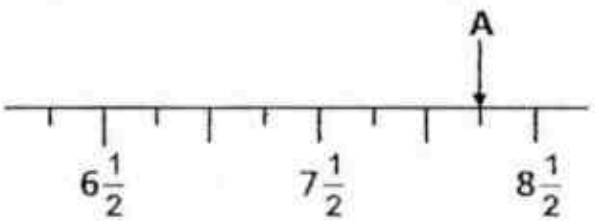
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Ans : _____ %

23. In a basket of 60 balls, 36 are red balls and the rest are green. What is the ratio of the number of green balls to the number of red balls in the basket? (Give your answer in the simplest form.)

Ans _____ : _____

24. Write the **mixed number** represented by the letter A in its simplest form.



Ans: _____

25. Paper plates are only sold in packs of 10. Each pack is sold at $1.80. Mrs Lee has $19. How many paper plates can she buy at most?

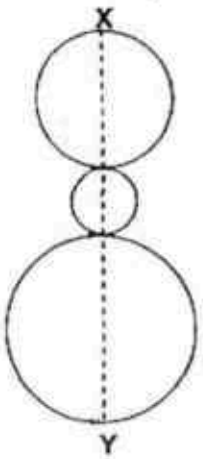
Ans : _____

Subtotal	/ 4

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Questions **26** to **30** carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. **[10 marks]**

26. The figure below is not drawn to scale. Line XY is 28 cm and it passes through the centre of all three circles. Find the perimeter of the figure.
(Take $\pi = \frac{22}{7}$)



Ans : _____ cm

Do not write in this space

27. A rectangular slip of paper measuring 15 cm by 4 cm is folded at one end as shown in the figure below. Find the total area of the shaded parts.



Ans: _____ cm^2

Subtotal	/ 4

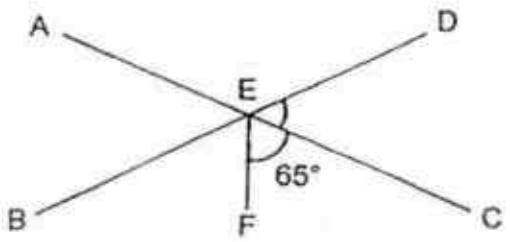
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28. At a class party, each pupil was allowed to bring either 1 or 2 family members. If the ratio of the number of pupils to the number of family members was 4 : 7, what fraction of the pupils brought 2 family members?

Do not write in this space

Ans: _____

29. The diagram below is not drawn to scale. AC and BD are straight lines. ∠FEC is half of ∠BEC. ∠FEC is 65°. What is ∠CED?



Ans: _____ °

30. If the radius of a circle is doubled, what is the percentage increase in its area?

Ans: _____ %

END OF PAPER

Subtotal	/ 6

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NAN HUA PRIMARY SCHOOL
SEMESTRAL EXAMINATION 1 – 2015
PRIMARY 6

MATHEMATICS

Paper 2

Total Time for Paper 2: 1 hour 40 minutes

5 Short Answer Questions (10 marks)

13 Structured / Long Answer Questions (50 marks)

INSTRUCTION TO CANDIDATES

1. Write your name and index number in the space provided.
2. Do not turn over the page until you are told to do so.
3. Follow all instructions carefully
4. Answer all questions and show your workings clearly.
5. You are allowed to use a calculator.

Marks Obtained

Total		/ 60

Name : _____( )

Class : 6_____

Date : 11 May 2015 Parent's Signature :_____

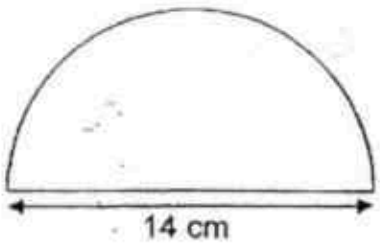
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Paper 2 (60 marks)

Questions **1** to **5** carry 2 marks each. Show your workings clearly and write your answers in the spaces provided. For questions which requlre units, give your answers in the units stated.

Do not write in this space

1. Find the area of the **semi-circle** with diameter 14 cm as shown in the diagram below. (Take $\pi = \frac{22}{7}$)



Ans: _____ cm^2

2. A soccer team played 10 games. It lost 2n games.
What fraction of the games did the soccer team win?
Express the answer in terms of *n*.

Ans: _____

3. A cubical water tank has a base area of 36 cm^2.
What is the volume of water in the tank when it is full?

Ans: _____ cm^3

Subtotal	**/ 6**

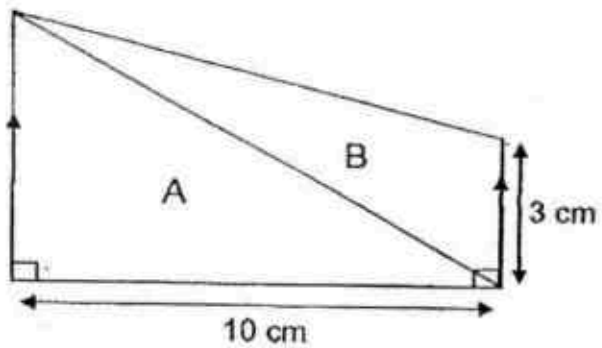
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4. For every 7 marbles which Faith has, Gary has 9.
How many marbles do they have altogether if Gary has 63 marbles?

Do not write in this space

Ans:_____

5. The diagram below is not drawn to scale. It is made up of 2 triangles, A and B. The area of Triangle A is 3 times the area of Triangle B.
What is the area of Triangle A?



Ans :_____ cm^2

Subtotal	/ 4

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For each question from 6 to 18, **show your workings** clearly in the space below it and write your answer in the space provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question.
Remember to include the units wherever possible.

6. The radius of a bicycle wheel is 35 cm. How many revolutions does it need to make to cover a distance of 880 cm? (Take $\pi = \frac{22}{7}$)

Do not write in this space

Ans: _____ [3]

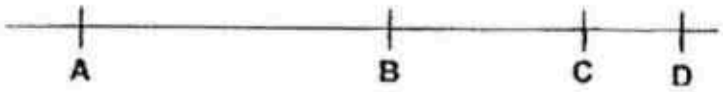
7. There were some men and women at a concert. 24 women left and as a result, the percentage of men at the concert increased from 50% to 70%. How many people were at the concert at first?

Ans: _____ [3]

Subtotal	/ 6

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8. A, B, C and D are four points on a line such that AB : AC is 3 : 5 and BD : CD is 7 : 2. If CD is 12 cm long, find the length of AB.



Do not write in this space

Ans: _____ [3]

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9. Sara spent $\frac{4}{9}$ of her money on 6 mangoes and 8 apples.

If 1 apple cost $\frac{1}{2}$ as much as a mango, how many apples could Sara buy with the rest of her money?

Do not write in this space

Ans: _____ [3]

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10. Wei and Feng started cycling from the same place in opposite directions along a straight path. 15 minutes later, they were 12 km apart. Wei's average speed was 20 km/h.
What was Feng's average speed?

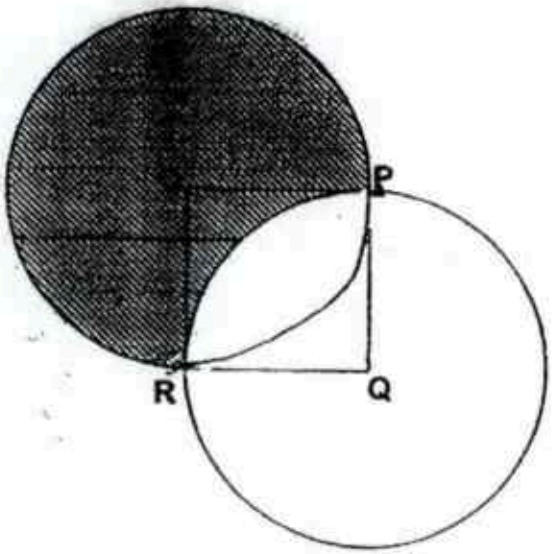
Do not write in this space

Ans:_____ [3]

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11. The figure below is made up of 2 identical circles with centres O and Q. OPQR is a square of side 14 cm. Find the area of the shaded part. (Take $\pi = 3.14$)

Do not write in this space



Ans: _____ [4]

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12. Ann had some red and blue balloons in the ratio 7 : 2. She gave away 15 red balloons and bought another 20 blue balloons. Then she found that she had an equal number of red balloons and blue balloons.
How many balloons did she have altogether at first?

Do not write in this space

Ans: _____ [4]

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13. The original selling price of a computer was $2800. A shop sold it at a discount of 20% during a sale. If the shop charged a 7% GST on the discounted price,

Do not write in this space

(a) how much was the GST?

(b) how much was the computer, inclusive of GST?

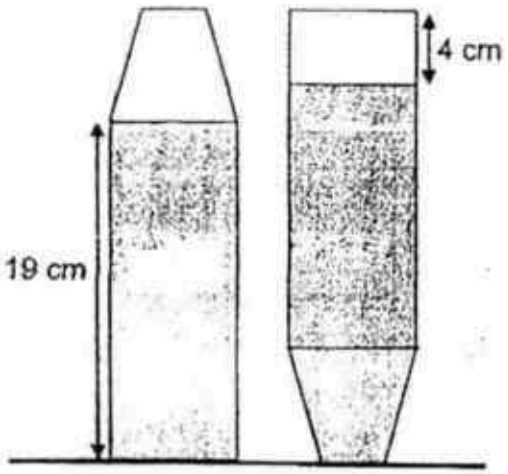
Ans : (a)____ [2]

(b)____ [2]

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14. A bottle standing on its base contains 285 $m\ell$ of water. The height of the water level is 19 cm. When the same bottle is overturned, the gap between the base of the bottle and the water level is 4 cm.

a) What is the base area of the bottle?
b) What is the capacity of the bottle? (Leave your answer in $m\ell$.)



Do not write in this space

Ans :(a) _____ [2]

(b) _____ [2]

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15. Curtis and Dylan ran in a race around a 800 m track. Curtis ran at a speed of 185 m/min and Dylan at a speed that was 35 m/min slower than Curtis throughout the race. How many completed rounds would Dylan have finished when he had run a distance of 490m less than Curtis?

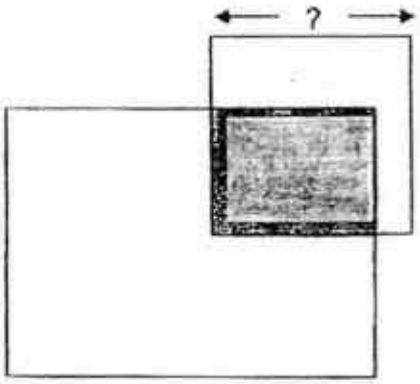
Do not write in this space

Ans: _____ [4]

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16. The figure below, not drawn to scale, is made up of a square and a rectangle. The area of the square is $\frac{1}{3}$ that of the rectangle. The ratio of the area of the unshaded part of the rectangle to that of the unshaded part of the square is 4 : 1. Given that the area of the shaded part is 48 cm^2, find the length of the square

Do not write in this space



Ans: _____ [5]

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17. At a party, each boy was given 5 sweets and each girl was given 6 sweets. Each accompanying adult received 3 sweets. $\frac{2}{5}$ of the people at the party were adults. The ratio of the number of boys to the number of girls was 5 : 7. Given that 1638 sweets were given away, how many children were there altogether?

Do not write in this space

Ans: _____ [5]

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18. Three boxes A, B and C contained a total of 986 red and 866 green marbles. 100 red and 28 green marbles were transferred from Box B to Box A. Another 176 red and 38 green marbles were then transferred from Box B to Box C. As a result, 50% of all the marbles in Box A and Box C were red, while 65%of the marbles in Box B were red.
How many red marbles were there in Box B at first?

Do not write in this space

Ans: _____ [5]

End of Paper 2

Remember to check your work.

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NAN HUA PRIMARY SCHOOL
SA 1 2015
PRIMARY 6 MATHEMATICS
PAPER 1

1) 2	2) 1	3) 2	4) 4	5) 2	6) 3
7) 3	8) 4	9) 1	10) 4	11) 3	12) 1
13) 1	14) 2	15) 1			

16) 33/1/3

17) 7/1/2

18) 2X180-40-40 = 280°

19) (12X2)/(2+1) = 24/3 = 8 km/h

20) 8

21) 11/12÷1/6 = 5 R 1
Ans : 5 packets

22) 30/150x100% = 20%

23) 2 : 3

24) (8+8/1/2)÷2 = 8/1/4

25) $19÷$1.80 = 10 R 10
10x10 = 100

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26) 22/7x28 = 88 cm

27) 15x4-4x4 = 44 sq cm

28) Assume all pupils brought 1 member
1x4 = 4
7-4 = 3
2-1 = 1
3÷1 = 3
Ans: 3/4

29) 180-65x2 = 180-130 = 50°

30) πx2rx2r-πxrxr = 3xπxrxr
(3xπxrxr/πxrxr)x100% = 300%

Paper 2

1) 1/2x22/7x7x7 = 77 sq cm

2) (10-2n)/10

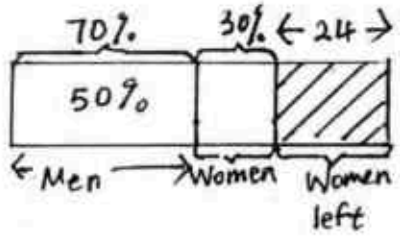
3) √36 = 6
6x6x6 = 216 cubic cm

4) 63÷9x16 = 112

5) 1/2x3x10x3 = 45 sq cm

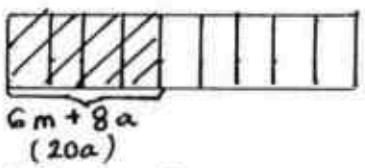
6) 2x22/7x35 = 220 cm
880÷220 = 4 revolutions

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7) 

70% -- 50%
30% -- 30/70x50% = 21/3/7%
50%-21/3/7% = 28/4/7%
28/4/7% -- 24
100% -- 100÷28/4/7x24 = 84 people at first

8) AB : BC : CD
3 : 2
5 : 2
---
15 : 10 : 4
4u -- 12cm
15u -- 15÷4x12 = 45 cm

9) 

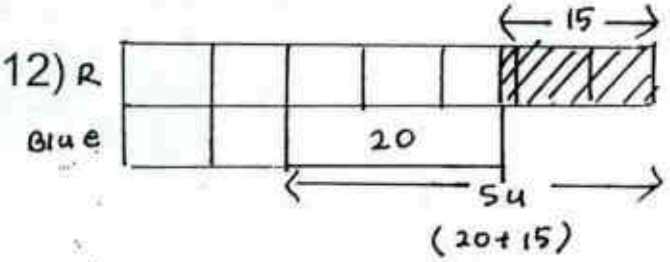
1/2m = 1a
6m = 12a
12a+8a = 20a
4u -- 20 apples
5u -- 5/4x20 = 25 apples

10) 20x1/4 = 5 km
12-5 = 7 km
7÷1/4 = 28 km

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11) Area of minor segment = 1/4x3.14x14x14-1/2x14x14
= 55.86 sq cm
Area of shaded region = 3.14x14x14-55.86x2 =
503.72 sq cm

12)



5u -- 35
9u -- 9/5x35 = 63 balloons at first

13a) 2800÷10x80 = $2240
2240÷100x7 = $156.80
b) 2240÷100x107 = $2396.80

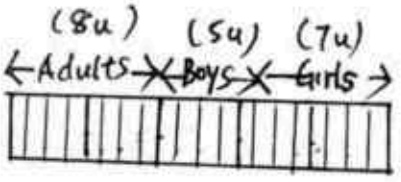
14a) 285÷19 = 15 sq cm
15x4+285 = 345 ml

15) 185÷35 = 14 min
14x(185-35) = 2100 m
2100÷800 = 2 R 5
Ans : 2 completed rounds

16) 3u+48x3 = 3u+144
3u+144 = 4u
1u = 144
√144 = 12 cm

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17)



8x3+5x5+7x6 = 91
1638÷91 = 18
18x12 = 216 children

18) 65-35 = 30
986-866 = 120
30u -- 120
65u -- 65/30x120 = 260
260+176+100 = 536 red marbles in box B at first

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Rosyth School
First Semestral Assessment 2015
Primary 6 Mathematics

Name: _____ Register No. _____

Class: Pr 6 -_____

Date: 12th May 2015 Parent's Signature: _____

Total Time for Booklets A and B : 50 minutes

PAPER 1
(Booklet A)

Instructions to Pupils:

1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. Shade your answers in the Optical Answer Sheet (OAS) provided.
4. You are **not** allowed to use a calculator.
5. Answer all questions.

Section	Maximum Mark	Marks Obtained
Paper 1 (Booklet A)	20	

* This booklet consists of 7 pages (including this cover page)

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Questions **1** to **10** carry 1 mark each. Questions **11** to **15** carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.
All diagrams are not drawn to scale unless stated otherwise.

(20 marks)

---

1. Which of the following are common factors of 16 and 28?

   (1) 1 and 3
   (2) 2 and 4
   (3) 3 and 4
   (4) 4 and 7

2. 19 tenths written as a decimal is _____.

   (1) 0.19
   (2) 1.009
   (3) 1.9
   (4) 10.9

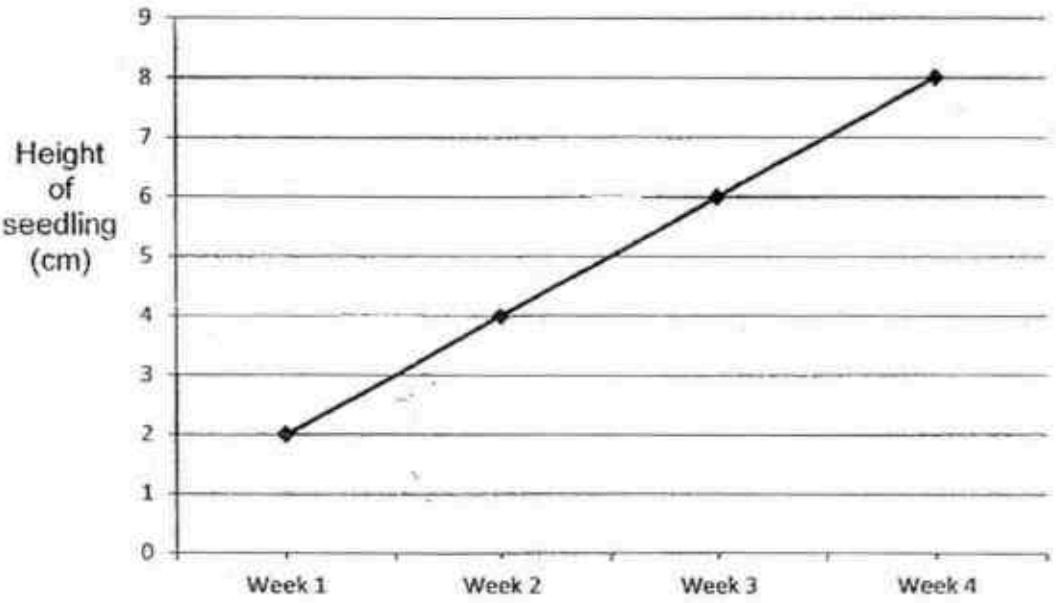
3. Simplify the algebraic expression $k + 9 + 2k - 2$.

   (1) $3k - 7$
   (2) $3k + 7$
   (3) $3k - 11$
   (4) $3k + 11$

(Go on to the next page)

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4. The graph below shows the growth of a seedling over four weeks. The height of the seedling was recorded at the end of each week.



What was the increase in the height of the seedling from Week 2 to Week 3?

(1) 5 cm
(2) 2 cm
(3) 6 cm
(4) 4 cm

5. The average mass of 4 boxes is 20.5 kg. The first two boxes have the same mass of 20 kg each. The third box is 18 kg. What is the mass of the last box?

(1) 24 kg
(2) 42 kg
(3) 44 kg
(4) 58 kg

(Go on to the next page)

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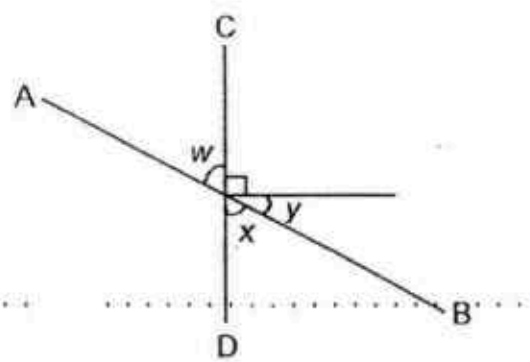
6. Every 100 g of sweets cost $1. Meiling bought 2.5 kg of such sweets. How much did she pay?

(1) $2.50
(2) $10
(3) $25
(4) $250

7. Mr Lee cycled from home to work on Monday. He took 36 minutes to reach his work place. He reached the work place at 8.15 a.m. What time did he leave his home?

(1) 7.24 a.m.
(2) 7.39 a.m.
(3) 8.19 a.m.
(4) 8.51 a.m.

8 In the diagram below, AB and CD are straight lines.
Which of the following is correct?



(1) $w = 180° - x$
(2) $w = 180° - y$
(3) $w = 90° - x$
(4) $w = 90° - y$

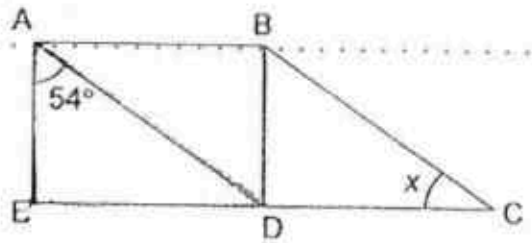
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9. In a class of 40 students, $\frac{5}{8}$ of them were girls. $\frac{1}{5}$ of the boys did not wear glasses. How many boys wear glasses?

(1) 8
(2) 12
(3) 3
(4) 15

10. ABDE is a rectangle and ABCD is a parallelogram. Find $\angle x$.



(1) 36°
(2) 45°
(3) 54°
(4) 144°

11. Mr Raja takes 4 days to make 3 wooden stools. What is the minimum number of weeks he needs to make 78 such stools?

(1) 14
(2) 15
(3) 20
(4) 26

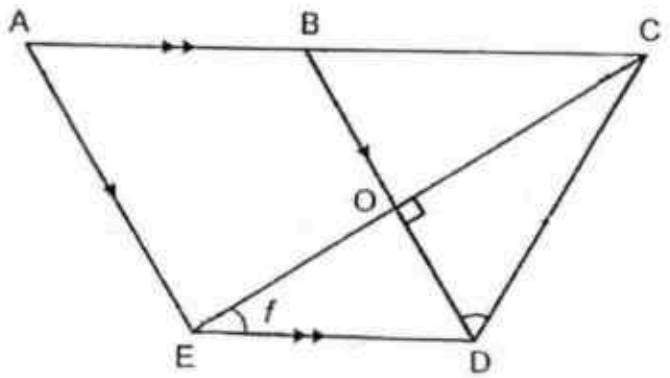
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12. The ratio of the area of a square to the area of a rectangle is 2 : 3. The side of the square is 6 cm. The length of the rectangle is 9 cm. What is the perimeter of the rectangle?

(1) 15 cm
(2) 24 cm
(3) 30 cm
(4) 54 cm

13. In the figure below, ABDE is a parallelogram and BCD is an equilateral triangle. ABC, COE and BOD are straight lines. Find $\angle f$.

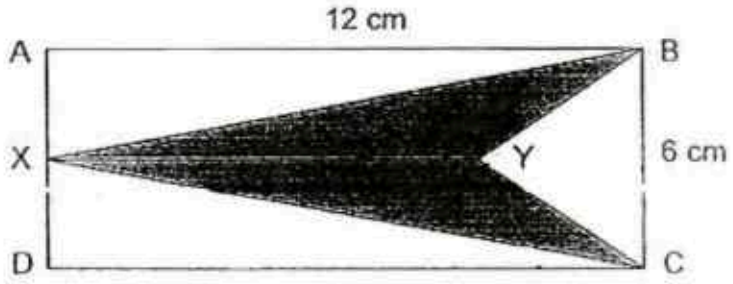


(1) 30°
(2) 45°
(3) 60°
(4) 120°

(Go on to the next page)

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14. ABCD is a rectangle and point X is the mid-point on line AD. Line XY is $\frac{2}{3}$ the length of line AB. Find the shaded area.



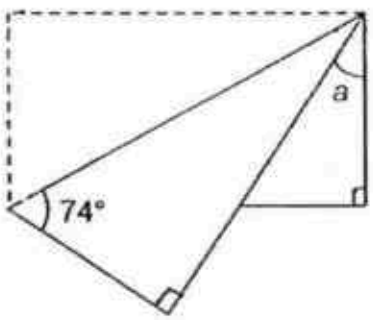
(1) 12 cm^2

(2) 24 cm^2

(3) 36 cm^2

(4) 72 cm^2

15. A rectangular piece of paper was folded as shown below. Find $\angle a$.



(1) 16°

(2) 32°

(3) 58°

(4) 74°

(Go on to Booklet B)

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Rosyth School
First Semestral Assessment 2015
Primary 6 Mathematics

Name: _____ Register No. _____

Class: Pr 6 - _____

Date: 12th May 2015 Parent's Signature: _____

Total Time for Booklets A and B : 50 minutes

PAPER 1
(Booklet B)

Instructions to Pupils:

1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. You are **not** allowed to use a calculator.
4. Answer all questions.

Section	Maximum Mark	Marks Obtained
Paper 1 (Booklet B)	20	

* This booklet consists of 8 pages (including this cover page)

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Questions **16** to **25** carry 1 mark each. Write your answers in the spaces provided.
For questions which require units, give your answers in the units stated.
All diagrams are not drawn to scale unless stated otherwise.

(10 marks)

---

16. Arrange the following numbers in order from the greatest to the smallest.

10.02 , 1.202 , 1.2 , 10.202

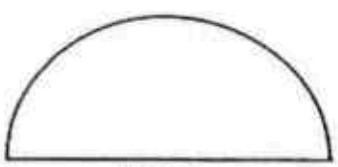
_____ , _____ , _____ , _____

greatest

17. What is the volume of a cube with side 4 cm?

Ans: _____ cm^3

18. What is the perimeter of the semi-circle as shown below? (Take $\pi = 3.14$)



20 cm

Ans: _____ cm

(Go on to the next page)

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19. Jia Ming, Mary and Fatimah shared $4\frac{1}{2}$ kg of grapes equally among themselves. How much grapes did each of them get?
Give your answer in the simplest form.

Ans: _____ kg

20. Express 500 m as a percentage of 2 km.

Ans: _____ %

21. The total length of 8 pieces of ribbons is 860 m.
What is the average length of the ribbons in metres and centimetres?

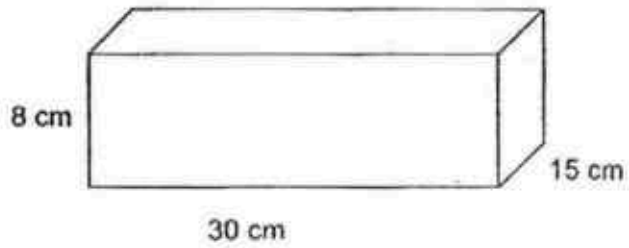
Ans: _____ m _____ cm

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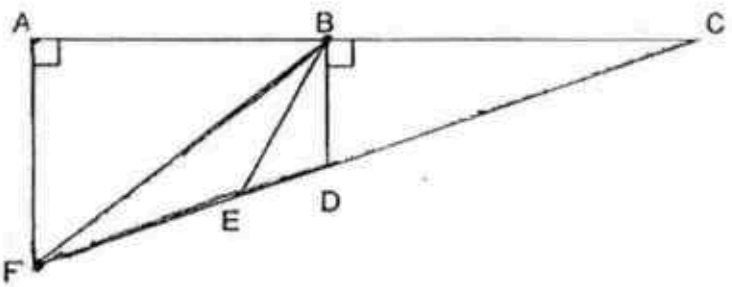
22. The rectangular tank as shown below is half-filled with water.

What is the volume of the water in the tank?



Ans: _____ cm^3

23. Name the height of triangle BCF.

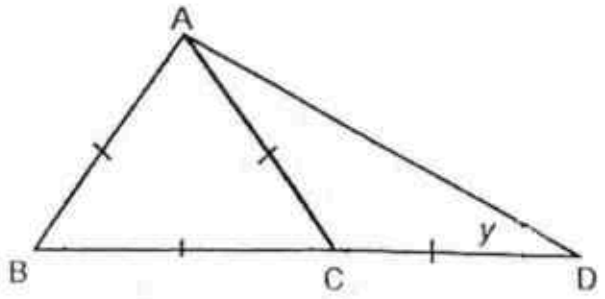


Ans: _____

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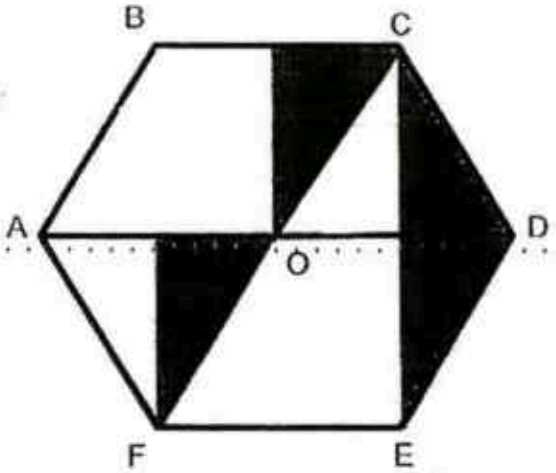
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24. The figure below is not drawn to scale. ABC is an equilateral triangle and AC = CD. Find the value of $\angle y$.



Ans: _____ °

25. ABCD and DEFA are 2 identical trapeziums. What fraction of the figure is shaded? Leave your answer in the simplest form.



Ans: _____

(Go on to the next page)

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Questions **26** to **30** carry 2 marks each. **Show your workings clearly** in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

All diagrams are not drawn to scale unless stated otherwise.

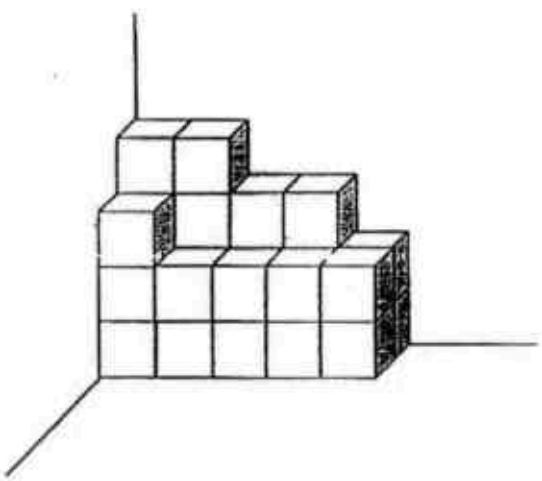
(10 marks)

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26. Aini, Bobby and Cai Hong have some marbles. Aini and Bobby have 70 marbles. Bobby and Cai Hong have 65 marbles. Cai Hong and Aini have 55 marbles. How many marbles do they have altogether?

Ans: _____

27. Alynna stacks some unit cubes at a corner of a room as shown below. To form a bigger cube, what is the least number of unit cubes that she has to add?

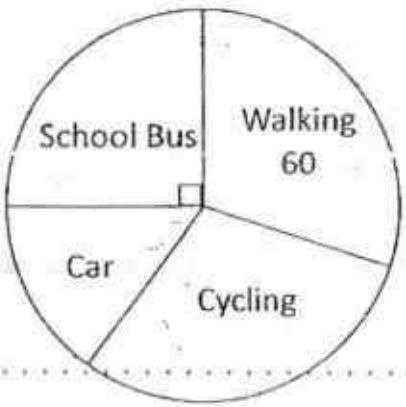


Ans: _____

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28. The pie chart below shows how 200 students commute to school. The number of students walking to school and the number of students cycling to school are the same. How many students go to school by car?

Mode of Transport to School



Ans: _____

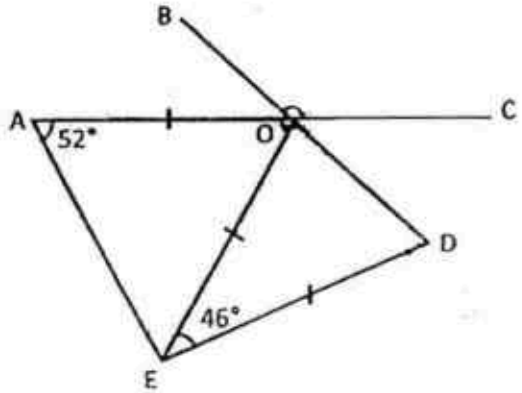
29. Ron is 10 years old now. Two years ago, his cousin was *m* years younger than him. What would be their combined age three years later?

Ans: _____

(Go on to the next page)

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30. In the figure below, AOE and ODE are isosceles triangles. AOC and BOD are straight lines. Find the value of $\angle BOC$.



Ans: _____ °

End of Booklet B

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Rosyth School
First Semestral Assessment 2015
Primary 6 Mathematics

Name: _____ Register No. _____

Class: Pr 6 - _____

Date: 12th May 2015 Parent's Signature: _____

Time: 1h 40mins

PAPER 2

Instructions to Pupils:

1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. **Show your workings clearly** as marks are awarded for correct working.
4. Write your answers in this booklet.
5. You are allowed to use a calculator
6. Answer all questions.

Questions	Maximum Mark	Marks Obtained
Q 1 to 5	10	
Q 6 to 18	50	

Section	Maximum Mark	Marks Obtained
Paper 1	40	
Paper 2	60	
Total	100	

*** This booklet consists of 18 pages (including this cover page)**

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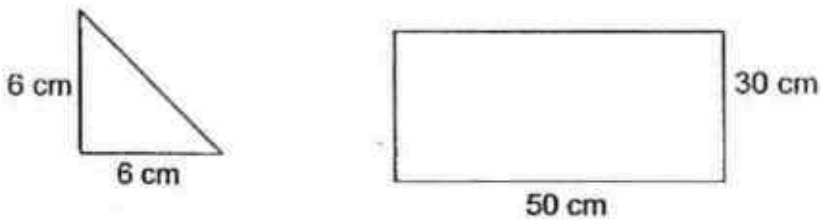
Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.
All diagrams are not drawn to scale unless stated otherwise. (10 marks)

Do not write in this space

1. Amrul bought two books of the same price and paid $40 after a 20% discount. What is the price of a book before the discount?

Ans: $_____

2. Gina wanted to cut triangles as shown below from a rectangular piece of paper. If the paper measured 50 cm by 30 cm, what is the maximum number of triangles that can be cut from it?



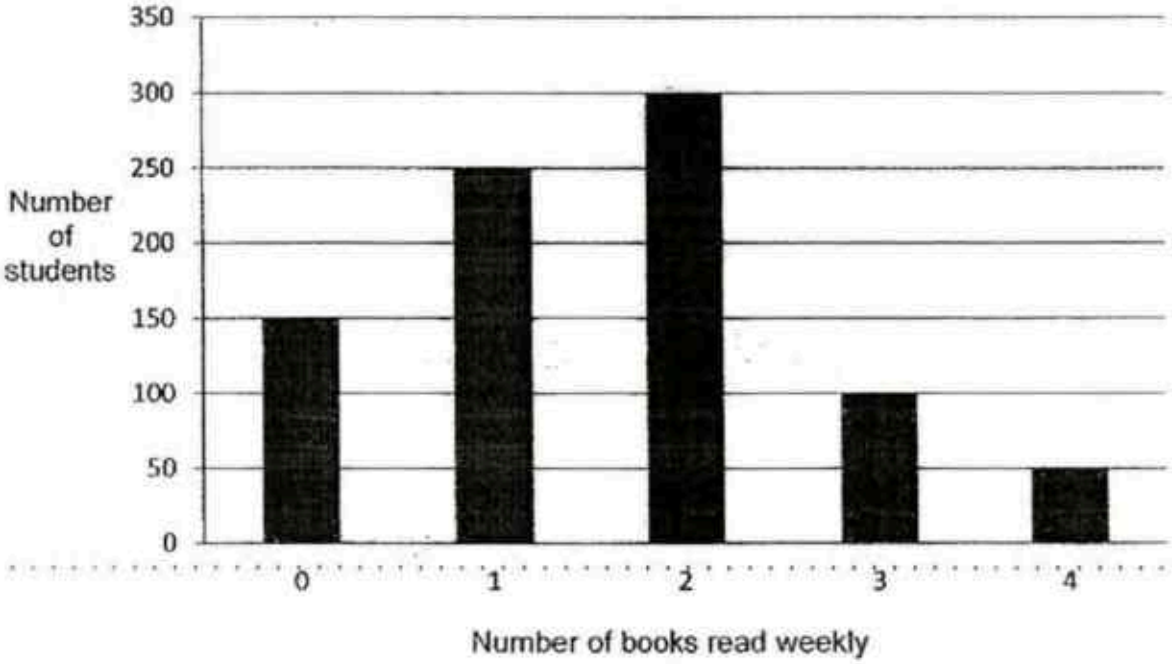
Ans: _____

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3. The bar graph below shows the number of books read weekly by a group of students in a survey.

Do not write in this space



What was the average number of books read by the students in the survey? Give your answer correct to 1 decimal place.

Ans: _____

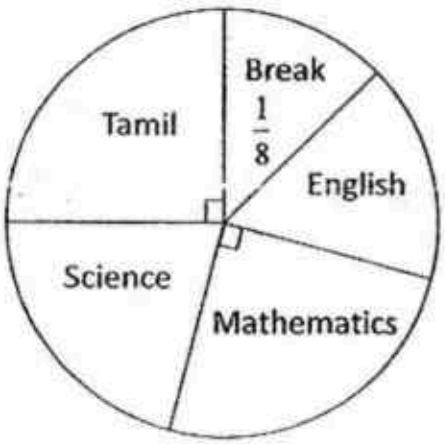
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4. The pie chart below shows how Nisha spent her 4 hours daily to do her revision for each subject. She spent 10 more minutes revising for Science than for English. How many minutes did she spend revising for Science?

Do not write in this space

Nisha's Daily Revision Schedule



Ans: _____minutes

(Go on to the next page)

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5. Mrs Lim had $3\frac{1}{6}$ kg of sugar. She used $\frac{1}{4}$ of it to bake cookies. She used another $\frac{1}{2}$ kg to make cupcakes. How many kilogrammes of sugar was left? Give your answer in the simplest form.

Do not write in this space

Ans: _____ kg

(Go on to the next page)

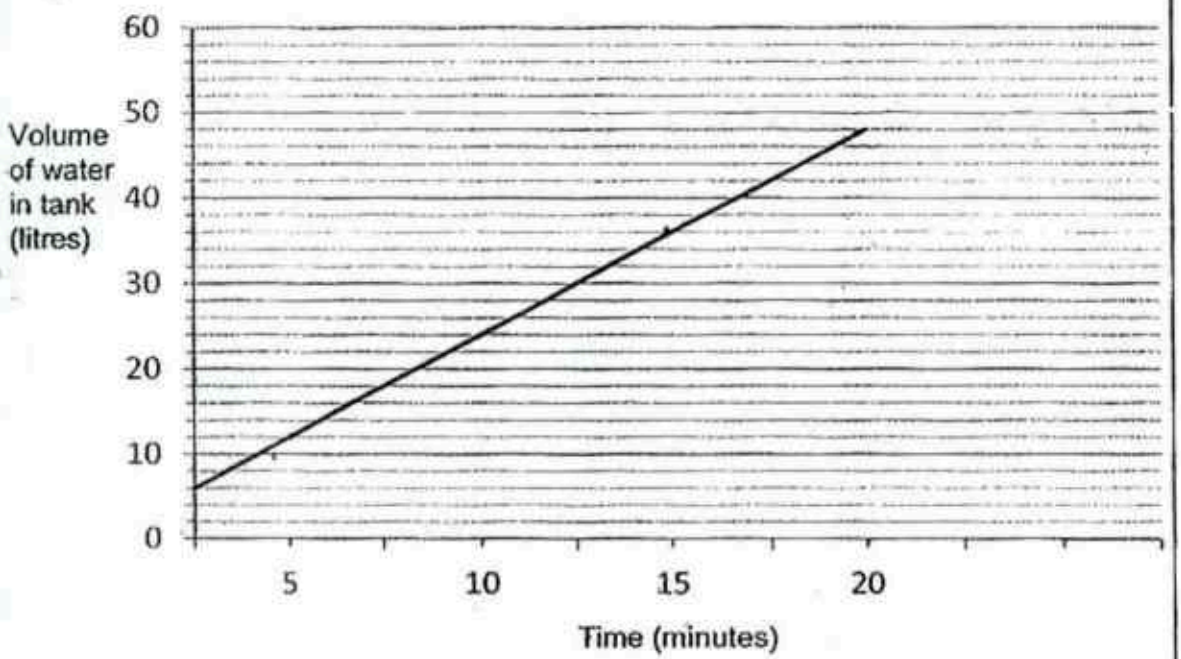
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Questions **6** to **18**, show your working clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question.

(50 marks)

Do not write in this space

6. The line graph below shows the volume of water in a tank when the tap was turned on for 20 minutes. The tank was filled completely with water at the end of 20 minutes.



(a) What was the volume of water in the tank before the tap was turned on?

(b) What was the amount of water that flowed into the tank per minute?

Ans: (a)_____[1]

Ans: (b)_____[2]

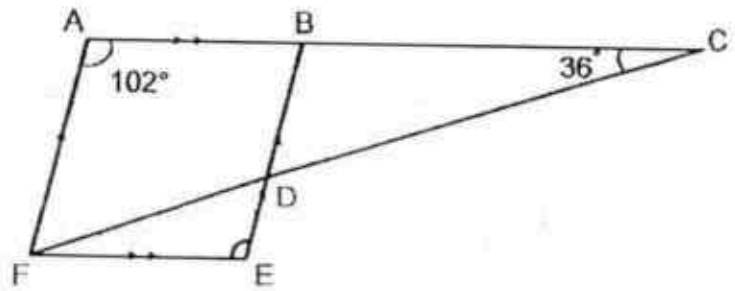
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7. In the figure below, ABEF is a rhombus and BCD is a triangle. ABC and CDF are straight lines.

Find (a) ∠BDC

(b) ∠DFE



Do not write in this space

Ans: (a)_____ [2]

Ans: (b)_____ [1]

(Go on to the next page)

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8. Mr Raman spent $1200 on a dining set and 40% of his remaining money on a shoe rack. If he had 15% of his money left, how much money did he have at first?

Do not write in this space

Ans: _____ [3]

(Go on to the next page)

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9. Amanda wanted to buy some files which are of the same price. If she bought 16 such files, she would have $18 left over. If she bought 24 such files, she would have $6 left over. How much money did Amanda have?

Do not write in this space

Ans: _____ [3]

(Go on to the next page)

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10. Leonard had some 50-cent coins and 20-cent coins in the ratio 7 : 4. Each day, he took out $1 worth of 50-cent coins and replaced them with $1 worth of 20-cent coins. After 12 days, he had an equal number of 20-cent coins and 50-cent coins in his box. How many 50-cent coins were left in the box after 12 days?

Do not write in this space

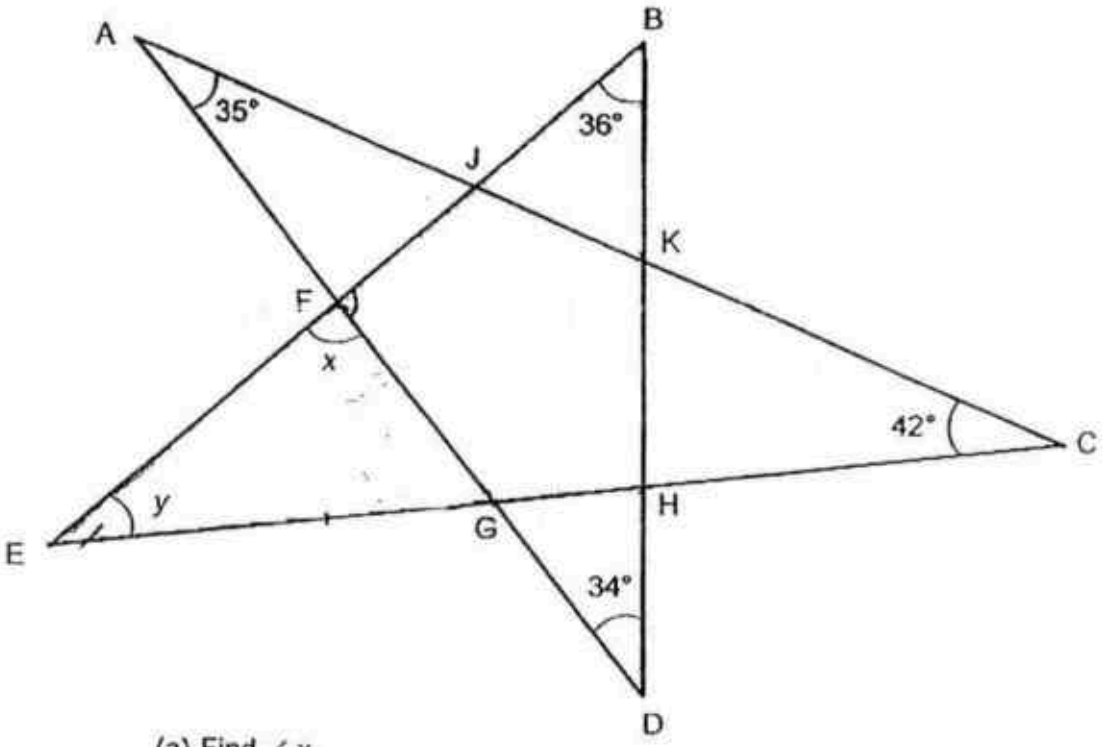
Ans: _____ [3]

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11. In the figure below, the star is formed by 5 straight lines. AC, BD, BE, AD and EC are straight lines.

Do not write in this space



(a) Find $\angle x$.
(b) Find $\angle y$.

Ans: (a)_____[2]

Ans: (b)_____[2]

(Go on to the next page)

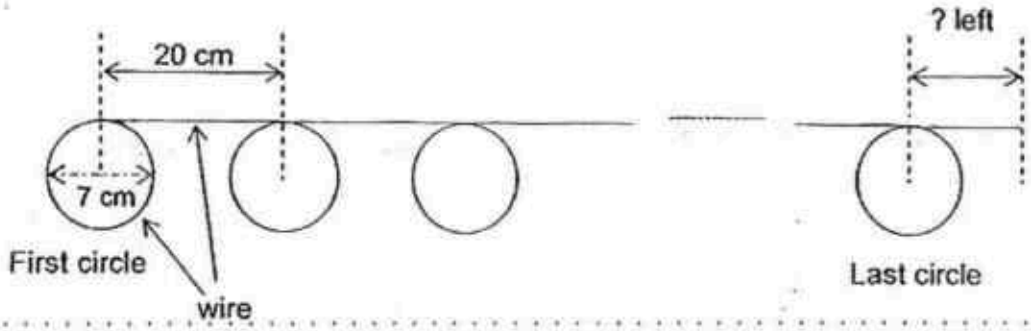
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12. Macy made some identical circles by bending a thin wire as shown below. The diameter of each circle is 7 cm. The length of the thin wire is 5 m. The distance from the centre of one circle to the centre of the next circle is 20 cm.

Do not write in this space

(a) What is the length of wire left after the last circle?
(b) How many circles did she bend?

(Take π as $\frac{22}{7}$)



Ans: (a)_____ [3]

Ans: (b)_____ [1]

(Go on to the next page)

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13. Malik gave 20% of his erasers to Kaizhong. Kaizhong then gave away 40% of what he received from Malik to John.
(a) What percentage of Malik's erasers did John receive?
(b) If John received 56 erasers from Kaizhong, how many erasers had Malik left?

Do not write in this space

Ans: (a)_____ [2]

Ans: (b)_____ [2]

(Go on to the next page)

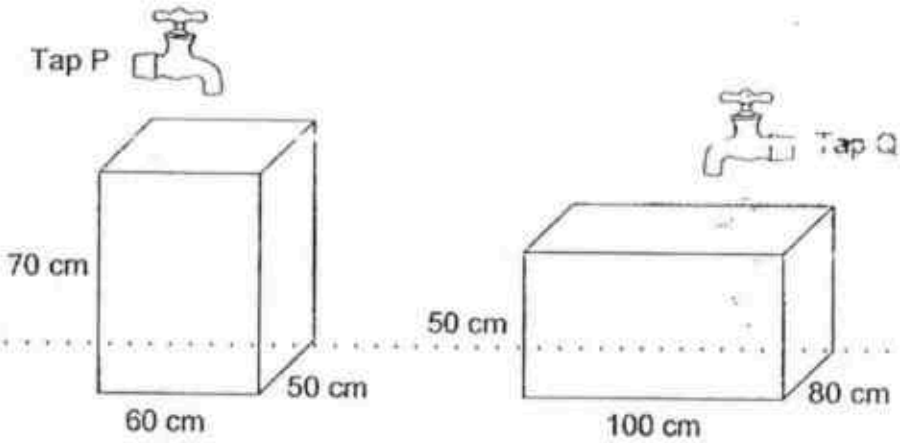
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14. Tank A is $\frac{3}{4}$ filled with water. Half of its water is then poured into an empty Tank B. Two taps were turned on at the same time to fill up both tanks. Tap P had water flowing out at 1.05 litres per minute.

(a) How much water was poured from Tank A to Tank B?

(b) How much water should be flowing out of Tap Q per minute so that both tanks can be filled to the brim with water at the same time?

Do not write in this space



Ans: (a)_____ [2]

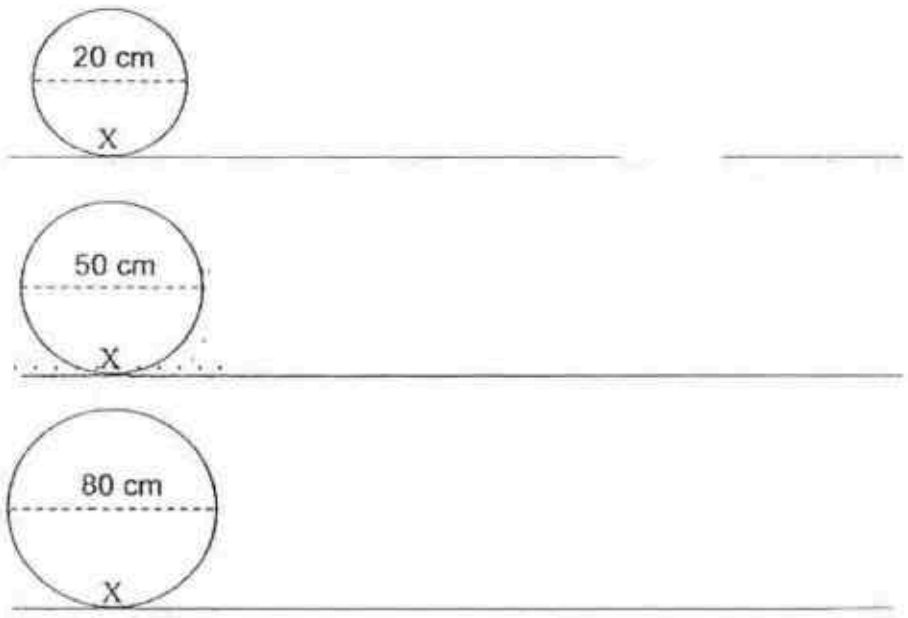
Ans: (b)_____ [3]

(Go on to the next page)

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15. Three circular discs are placed along three identical paths as shown below. There is a spot marked "X" on each disc. The three discs have diameters of 20 cm, 50 cm and 80 cm respectively. If they start to roll at the same time, what is the total distance covered by all the discs when the spot marked "X" on the three discs next touch the path at the same time? Give your answer in terms of π.

Do not write in this space



Ans: _____[3]

(Go on to the next page)

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16. $\frac{3}{8}$ of the can drinks in a box were Lemon Fizz and the rest were Orange Fizz. Joy took 18 cans of the Lemon Fizz from the box. Crystal took $\frac{3}{4}$ of the cans of Orange Fizz from the box. After that, $\frac{1}{4}$ of the can drinks remained in the box. How many can drinks were removed from the box by Joy and Crystal?

Do not write in this space

Ans: _____ [5]

(Go on to the next page)

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17. Fatimah had 217 more red apples than green apples. After selling $\frac{2}{7}$ of the red apples and half of the green apples, she had 376 apples left.

(a) How many apples did she have at first?

(b) How many red apples did she sell?

Do not write in this space

Ans: (a)_____ [3]

Ans: (b)_____ [2]

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18. Kate had twice the number of toy bricks as Jake. Jake used all his bricks to build 5 identical cars. Kate used all her bricks to build 7 identical cars. Kate used 9 more bricks than Jake for each car. How many bricks did Kate have?

Do not write in this space

Ans: _____[5]

End of Paper
Check your work carefully.

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ROSYTH SCHOOL
SA1 2015
P6 MATHEMATICS

Paper 1

1) 2	2) 3	3) 2	4) 2	5) 1	6) 3	7) 2
8) 4	9) 2	10) 1	11) 2	12) 3	13) 1	14) 2
15) 3						

16) 10.202, 10.02, 1.202, 1.2

17) 4x4x4 = 64 cubic cm

18) Perimeter = 1/2x3.14x20+20 = 51.4 cm

19) 4/1/2÷3 = 1/1/2 kg

20) 500/2000x100% = 25%

21) 860÷8 = 107.5 m = 107 m 50 cm

22) 30x15x4 = 1800 cubic cm

23) AF

24) 60°÷2 = 30°

25) 1/3

26) A+B = 70
B+C = 65
C+A = 55
2A+2B+2C = 70+65+55 = 190
A+B+C = 190÷2 = 95 marbles

27) 5x5x5-27 = 125-27 = 98 unit cubes to be added

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28) 200-60-50-60 = 30 students go to school by car

29) 10-m+10+6 = (26-m) years old in 3 years'

30) Angle AOE = 180°-52°-52° = 76°
Angle EOD = (180°-46°)/2 = 67°
Angle BOC = 76°+67° = 143°

Paper 2

1) 80% -- $20
100% -- 100/80x20 = $25

2) 50÷6 = 8 R2
30÷6 = 5
8x5x2 = 80

3) (250+600+300+200)÷(150+250+300+100+50) = 1.6

4) (90-10)÷2 = 40 (English)
40+10 = 50 minutes

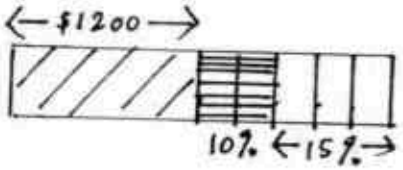
5) 1/4x3/1/6 = 19/24 kg
19/24+1/2 = 1/7/24 kg
3/1/6-1/7/24 = 1/7/8 kg

6a) 6 litres
b) (48-6)÷20 = 2.1 litres/min

7a) 42°
b) 36°

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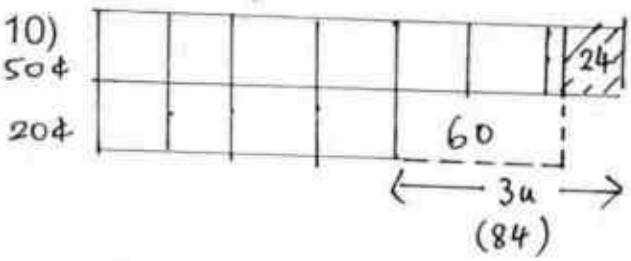
8)



15%÷3x2 = 10%
100%-10%-15% = 75%
75% -- $1200
100% -- 100/75x1200 = $1600

9) 24f-16f = 8f
$18-$6 = $12
$12÷8 = $1.50 (cost of 1 fie)
$1.50x16 + $18 = $42

10)



3u -- 60+24 = 84
7u -- 7÷3x84 = 196
196-24 = 172 fifty cent coins

11) Angle x = 36°+34° = 70°
Angle EGF = 35°+42° = 77°
Angle = 180°-70°-77° = 33°

12a) Circumference of 1 circle = 2x22/7x7/2 = 22 cm
20+22 = 42 cm
500÷42 = 11 R38
38-22 = 16 cm
b) 11+1 =12

13a) 40/100x20 = 8%
b) 8% -- 56
80% --80/8x56 = 560 erasers left

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14a) 1/2x3/4x60x50x70 = 78750 cubic cm

b) Volume of water needed in Tank A = 60x50x70 - 78750 = 131 250 cubic cm

Time taken to fill the tank = 131 250÷1050 =125 min

Volume of Tank B = 100x80x50 = 400 000 cubic cm

Volume of water needed to fill the tank = 400 000-78 750 = 321 250 cubic cm

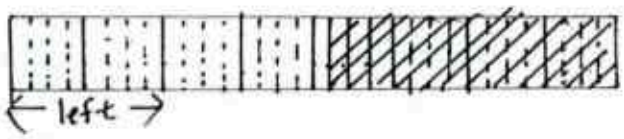
Rate of water of Tap B = 321 250÷125 = 2570 cubic cm = 2.57 litres per min

15) 2xπx10 = 20π

2xπx25 = 50π

2xπx40 = 80π

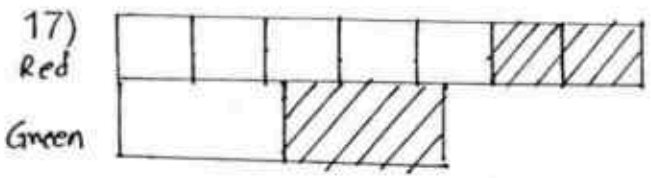
LCM = 400∏

16) 

3/4X5 = 15/4 = 3/3/4

9u -- 18 cans

24u -- 24/9x18 = 48 cans

17) 

5R+1G = 376

7R-2G = 217

10R+2G = 376X2 = 752

17R = 969

1R = 57

5R = 5X57 =285

7R = 7x57 = 399

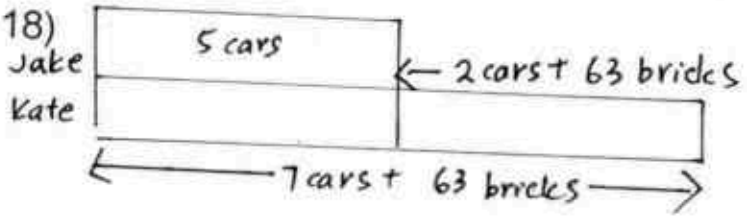
1G = 376-285 = 91

2G = 91X2 = 182

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a) Number of apples at first = 399+182 = 581
b) Number of red apples sold = 57x2 = 114

18)



1u -- 5 cars = 2 cars + 63 bricks
3 cars -- 63 bricks
1 car -- 63÷3 = 21 bricks
21x7+63 = 210 bricks

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METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887

MID-YEAR ASSESSMENT 2015
PRIMARY 6
MATHEMATICS

PAPER 1
(BOOKLET A)

Total Time for Booklets A and B: 50 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Shade your answers in the Optical Answer Sheet (OAS) provided.
The use of calculators is **NOT** allowed.

Name: _____ ( )

Class: Primary 6._____

Date: 12 May 2015

This booklet consists of 6 printed pages including this page.

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Questions **1** to **10** carry 1 mark each. Questions **11** to **15** carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

(20 marks)

---

1 The length of the whiteboard in the classroom is about _____.

(1) 3 m
(2) 10 m
(3) 20 m
(4) 30 m

2 Round off 3 587 614 to the nearest ten thousand.

(1) 3 580 000
(2) 3 588 000
(3) 3 590 000
(4) 3 600 000

3 Express 4 tens, 42 tenths and 102 thousandths as a decimal.

(1) 4.522
(2) 40.522
(3) 44.302
(4) 45.22

4 Simplify $7p + 12 - 4p - 9$

(1) $3p + 3$
(2) $3p + 21$
(3) $11p + 3$
(4) $11p + 21$

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5 If 125% of a number is 100, what is the number?

(1) 0.8
(2) 1.25
(3) 80
(4) 125

6 There are 60 members in a choir. 36 of them are boys.
What is the ratio of the number of girls to the number of boys?

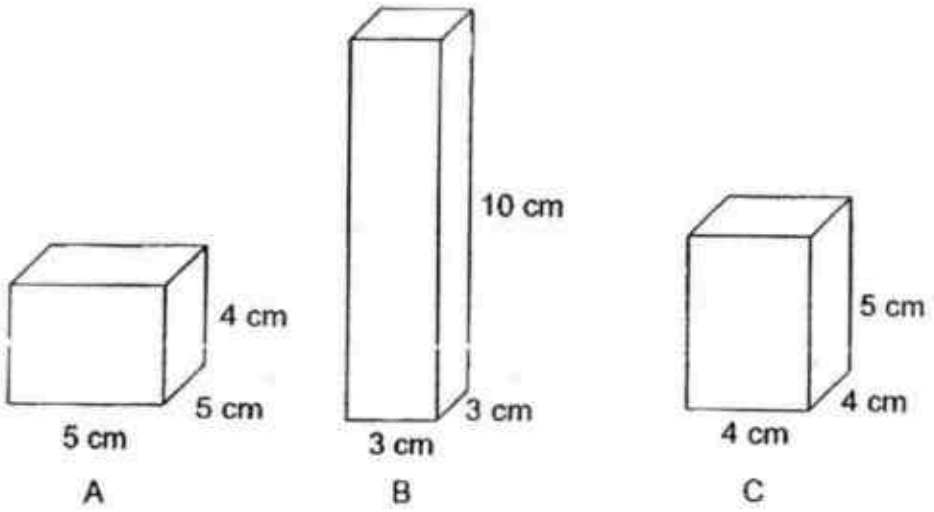
(1) 2 : 3
(2) 2 : 5
(3) 3 : 2
(4) 3 : 5

7 Which of the following is the same as 7040 g?

(1) 7 kg 4 g
(2) 7 kg 40 g
(3) 70 kg 4 g
(4) 70 kg 40 g

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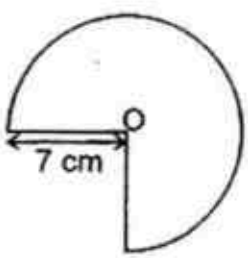
8 Arrange the tanks below according to their volume, beginning with the smallest.



	Smallest		Largest
(1)	A,	B,	C
(2)	A,	C,	B
(3)	B,	C,	A
(4)	C,	B,	A

9 Find the perimeter of the figure shown below. O is the centre of the circle.

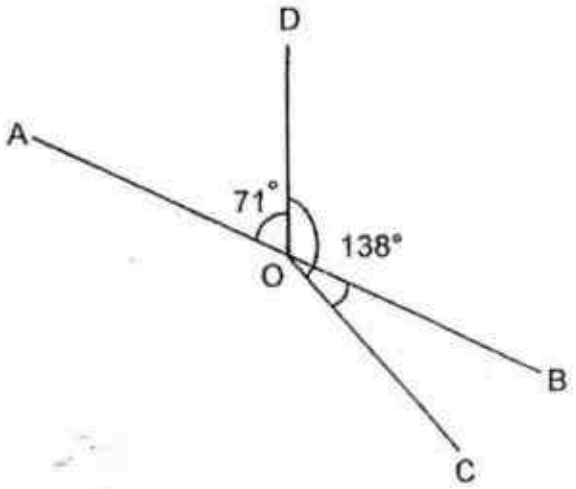
(Take $\pi = \frac{22}{7}$)



(1) 33 cm
(2) 40 cm
(3) 47 cm
(4) 58 cm

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10 In the figure below, AB is a straight line. $\angle AOD = 71°$ and $\angle COD = 138°$. Find $\angle BOC$.



(1) 13°
(2) 29°
(3) 42°
(4) 67°

11 Mala is 11 years old now. Her mother is 25 years older than her. What will their total age be in 4 years' time?

(1) 36
(2) 47
(3) 51
(4) 55

12 Megan had 16 pink beads and 24 yellow beads. She bought another 12 yellow beads. How many more pink beads does she have to buy so that the ratio of beads which are pink to yellow does not change?

(1) 8
(2) 12
(3) 20
(4) 28

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13 Su Ling ate $\frac{1}{2}$ of the sweets and $\frac{4}{5}$ of the cookies she bought from the shop. She then had an equal number of sweets and cookies left. Express the number of cookies as a fraction of the number of sweets

(1) $\frac{2}{5}$

(2) $\frac{3}{5}$

(3) $\frac{5}{2}$

(4) $\frac{5}{3}$

14 The ratio of the number of teachers to the number of pupils at a concert was 2 : 5. The ratio of the number of boys to the number of girls was 1 : 4. There were 120 more girls than boys at the concert. How many people were at the concert altogether?

(1) 150
(2) 200
(3) 210
(4) 280

15 Noel has the same number of $2 notes and $5 notes in his wallet. He has a total of $70 in his wallet. How many notes are there in Noel's wallet?

(1) 10
(2) 14
(3) 20
(4) 35

(Go on to Booklet B)

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METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887

MID-YEAR ASSESSMENT 2015
PRIMARY 6
MATHEMATICS

PAPER 1
(BOOKLET B)

Total Time for Booklets A and B: 50 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Write your answers in this booklet.
The use of calculators is **NOT** allowed.

Name: _____ ( )

Class: Primary 6._____

Date: 12 May 2015

Paper 1 Booklet A	**/ 20**
Paper 1 Booklet B	**/ 20**
Paper 2	**/ 60**
TOTAL	**/ 100**

This booklet consists of 8 printed pages including this page.

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Questions **16** to **25** carry 1 mark each. Write your answers in the spaces provided.
For questions which require units, give your answers in the units stated.

(10 marks)

---

16 What is the missing number in the box?

$88 \times 1000 + 12 \times 1000 = \square \times 1\,000 - 10 \times 1\,000$

Ans: _____

17 Evaluate $40 \div 8 + (45 - 5) - 3 \times 2$

Ans: _____

18 How many ninths are there in $2\frac{1}{3}$?

Ans: _____

(Go on to the next page)

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19 Express $2\frac{5}{9}$ as a decimal correct to 2 decimal places.

Ans: _____

20 A printer cost $200. During a sale, it cost $140. What was the percentage discount given for the printer?

Ans: _____%

21 100 g of red beans cost $0.50.
Mrs Neo bought 1.6 kg of red beans.
How much did she spend?

Ans: $_____

(Go on to the next page)

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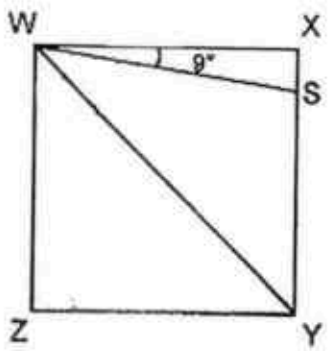
22 Alex, Ben and Collin shared the cost of a present in the ratio 1 : 2 : 5 respectively. What fraction of the cost of present is Collin's share?

Ans: _____

23 The ratio of the length of a rectangle to the breadth of the rectangle is 4 : 1. The perimeter of the rectangle is 2 m. Find the breadth of the rectangle.

Ans: _____ cm

24 In the figure below, WXYZ is a square and $\angle XWS = 9°$. Find $\angle SWY$.

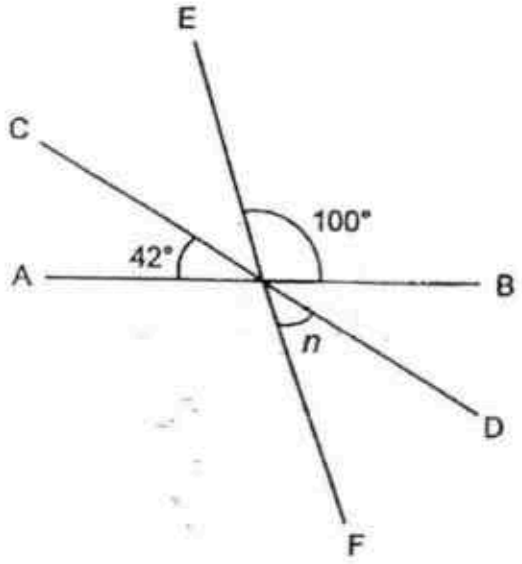


Ans: _____ °

(Go on to the next page)

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25 In the figure below, AB, CD and EF are straight lines.
Find $\angle n$.



Ans: _____ °

(Go on to the next page)

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Questions **26** to **30** carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

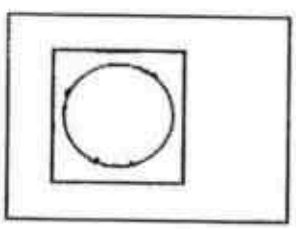
(10marks)

26 At a bakery, cupcakes are sold at the price shown below. Mrs Koh needs 20 cupcakes for her daughter's birthday party. What is the **least** amount of money she will have to spend?



Ans: $_____

27 Bala drew a circle, a square and a rectangle on a piece of paper as shown below. The ratio of the area of the circle to the area of the square to the area of the rectangle is 5 : 9 : 27. What is the ratio of the shaded part to the area of the unshaded part?

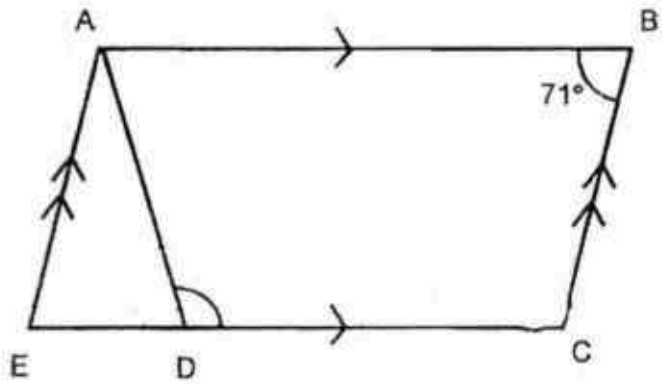


Ans: _____

(Go on to the next page)

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28 ABCE is a parallelogram. ADE is an isosceles triangle. $\angle ABC = 71°$.
Find $\angle ADC$.



Ans: _____°

29 Hani bought 5 caps at an average price of $30.
After buying another cap, the average price of all the caps became $29.
How much did the 6th cap cost?

Ans: $_____

(Go on to the next page)

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30 The price of a child ticket to the zoo is $z. An adult ticket costs thrice as much as a child ticket. Mandy buys tickets for two adults and three children. She gives the cashier $100. How much change, in terms of z, will she receive?

Ans: $ _____

End of Paper

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METHODIST GIRLS' SCHOOL (PRIMARY)

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MID-YEAR ASSESSMENT 2015
PRIMARY 6
MATHEMATICS

PAPER 2

Duration: 1h ~~15~~ 40 min

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Write your answers in this booklet.
The use of an approved calculator is expected, where appropriate.

Name: _____ ( )

Class: Primary 6._____

Date: 12 May 2015

/ 60

This booklet consists of 16 printed pages including this page.

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Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space

1



Ahmad, John and Ming shared the cost of 21 highlighters in the ratio 2 : 3 : 5 respectively. How much did Ming pay?

Ans: $ _____

2 Jenny bought $\frac{3}{4}$ kg of sweets. She gave $\frac{3}{20}$ kg of it to her sister. She then distributed the remaining sweets to her friends. Each friend received $\frac{1}{10}$ kg of sweets. How many friends did Jenny give her sweets to?

Ans: _____

(Go on to the next page)

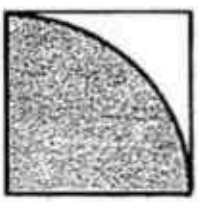
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3 Abigail saved $90 in June. This was 20% more than her savings in May. What was Abigail's savings in May?

Do not write in this space

Ans: $ _____

4 A quadrant was drawn inside a square as shown below. The area of the square is 49 cm^2. Find the area of the shaded part. (Take $\pi = \frac{22}{7}$)



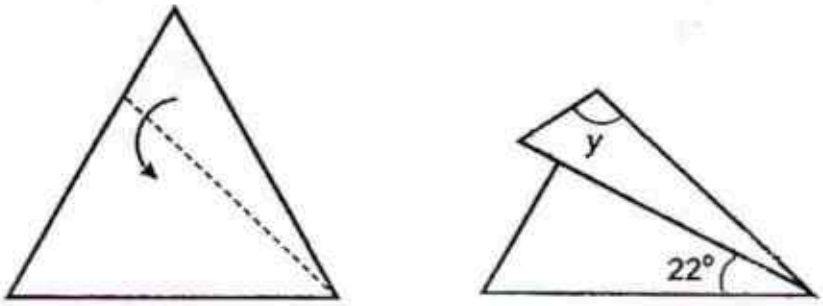
Ans: _____ cm^2

(Go on to the next page)

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5 The diagram below shows an equilateral triangle. It is folded along the dotted line as shown below. Find $\angle y$.

Do not write in this space



Ans: _____ °

(Go on to the next page)

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For Questions 6 to 18, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (50 marks)

Do not write in this space

6 At a bakery, Janice paid $14.75 for 1 chicken pie and 9 egg tarts.
Belle paid $18.50 for 1 chicken pie and 12 egg tarts.
Find the cost of 5 chicken pies.

Ans: _____ [3]

7 A seamstress had some buttons.
She used $\frac{1}{7}$ of them on Monday and $\frac{1}{6}$ of the remaining buttons on Tuesday. She bought another 144 buttons and then had as many buttons as she had at first. How many buttons did she have at first?

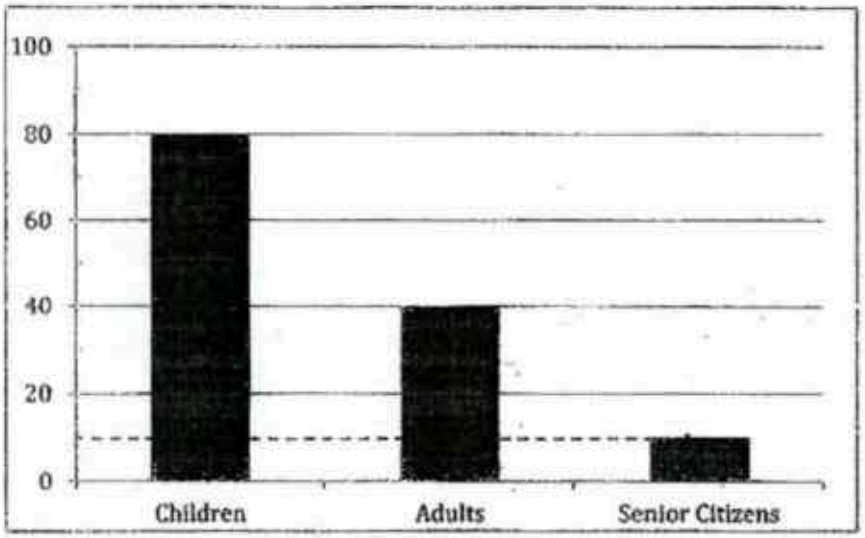
Ans: _____ [3]

(Go on to the next page)

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8 The bar graph below shows the number of visitors to a theme park in one day.

Do not write in this space



(a) Each visitor needed a ticket to enter the theme park.
How many tickets were sold altogether?

(b) The theme park collected $3 480 from the sale of tickets.
The ratio of the price of each child ticket to each adult ticket to each senior citizen ticket is in the ratio 2 : 3 : 1. How much money was collected from the sale of the children's tickets?

Ans: (a) _____ [1]

(b) _____ [2]

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9 Nell had 25% of the number of stickers Rani had.
Rani had 20% less stickers than Weiming .
If Nell had 45 stickers, how many stickers did Weiming have?

Do not write in this space

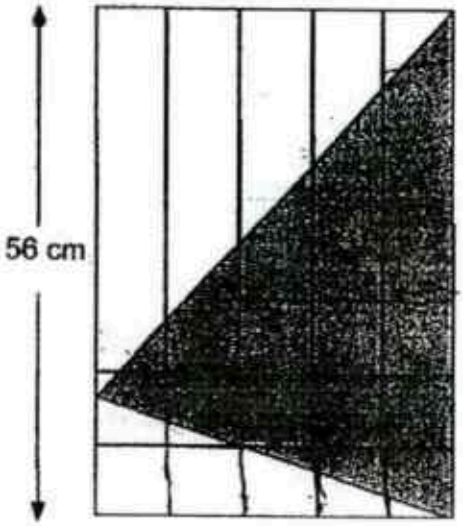
Ans: _____ [3]

(Go on to the next page)

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10 The figure below is made up of 7 identical rectangles.
Find the area of the shaded triangle.

Do not write in this space



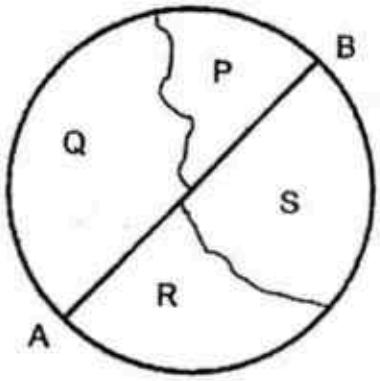
Ans: _____ [3]

(Go on to the next page)

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11 The figure below shows a circle that is divided into 4 parts, P, Q, R and S. AB is the diameter of the circle. The ratio of Area P to Area Q is 2 : 5 and the ratio of Area Q to Area R is 3 : 2. Area S is 383 cm^2.
Find the area of the circle.

Do not write in this space



Ans: _____ [4]

(Go on to the next page)

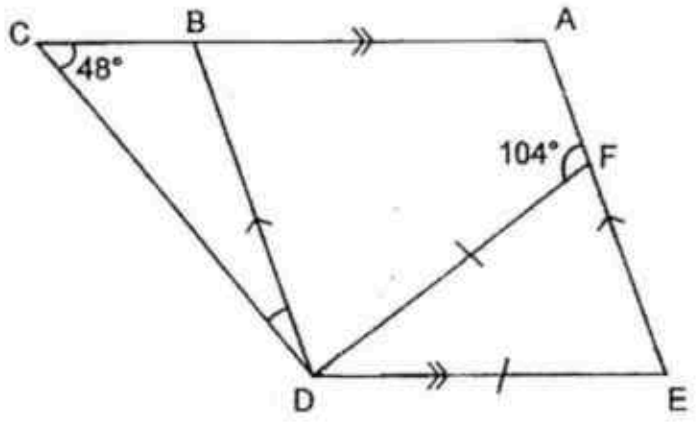
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12 In the figure below, ACDE is a trapezium and DEF is an isosceles triangle. $\angle ACD = 48°$, $\angle AFD = 104°$ and DB // EA.

Do not write in this space

(a) Find $\angle FDE$

(b) Find $\angle BDC$



Ans: (a) _____ [2]

(b) _____ [2]

(Go on to the next page)

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13 There were a total of 186 local and foreign stamps in a stamp album. After $\frac{1}{2}$ of the local stamps and $\frac{1}{3}$ of the foreign stamps were sold, there were 109 stamps left.

(a) How many foreign stamps were sold?

(b) How many local stamps were left?

Do not write in this space

Ans: (a) _____ [2]

(b) _____ [2]

(Go on to the next page)

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14 The table below shows the number of books sold at a bookstore in a week.

Do not write in this space

Day	Number of books sold
Monday to Friday	$5b$ per day
Saturday	$4b - 5$
Sunday	$3b + 8$

(a) What was the total number of books sold from Monday to Sunday? Express your answer in terms of b in the simplest form.

(b) If $b = 30$, how many **more** books were sold on Saturday than on Sunday?

Ans: (a) _____ [2]

(b) _____ [2]

(Go on to the next page)

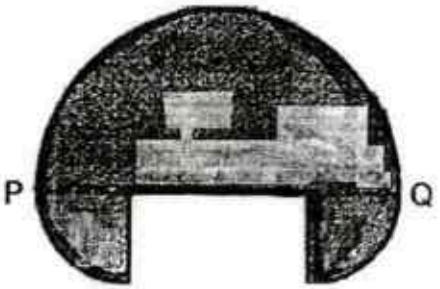
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15 The figure below is made up of a semicircle and 2 quarter circles. PQ is 20 cm. The ratio of the radius of the semicircle to the radius of the quarter circle is 2 : 1.

Do not write in this space

(a) Find the perimeter of the figure.

(b) Find the area of the figure.
(Take $\pi = 3.14$)



Ans: (a) _____ [3]

(b) _____ [2]

(Go on to the next page)

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16 Study the pattern below.

Do not write in this space

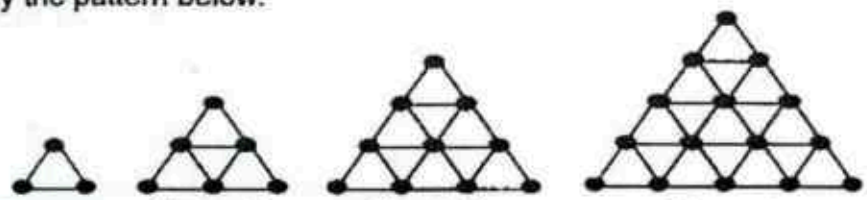


Figure 1 Figure 2 Figure 3 Figure 4

Figure	Number of dots	Number of sticks	Number of triangles
1	3	3	1
2	6	9	4
3	10	18	9
4	15	30	16
:	:	:	:
6	28	(a) ?	36
:		:	:
11	:	:	(b) ?

(a) How many sticks are there in Figure 6?

(b) How many triangles are there in Figure 11?

(c) How many dots are there in Figure 15?

Ans: (a) _____ [1]

(b) _____ [1]

(c) _____ [2]

(Go on to the next page)

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17 Denise and Ellen had some savings at first.
40% of Denise's savings was equal to 25% of Ellen's ~~money.~~ savings
Then, Denise received $40 from her father and her savings increased by 5%.

Do not write in this space

(a) How much money did Denise have in the end?

(b) How much money must Ellen give to Denise so that she will have 12% more money than Denise in the end?

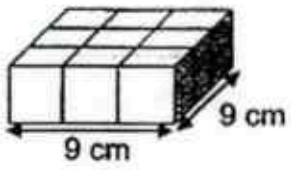
Ans: (a) _____ [2]

(b) _____ [3]

(Go on to the next page)

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18 James had 234 cubes. The length of each cube is 3 cm.
He used all the cubes to make a cuboid. The base of the cuboid is shown below.



(a) Find the height of the cuboid formed.

(b) If he decides to use the cubes to form another cuboid with a square base of edge 18 cm, how many cubes will **not** be used?

Do not write in this space

Ans: (a) _____ [2]

(b) _____ [3]

END OF PAPER

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METHODIST GIRLS' SCHOOL
MID-YEAR EXAMINATION
PRIMARY 6

Paper 1

1) 1	2) 3	3) 3	4) 1	5) 3	6) 1
7) 2	8) 4	9) 3	10) 2	11) 4	12) 1
13) 3	14) 4	15) 3			

16) 88+12 = 110-10
Ans: 110

17) 5+40-6 = 39

18) 7/3÷1/9 = 21

19) 2.56

20) 60/200x100% = 30%

21) 1600/100x$0.50 = $8

22) 5/8

23) 20 cm

24) 36°

25) 38°

26) 20÷6 = 3 R2
2x1 = 2
3x5 = 15
15+2 = $17

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27) 4 : 18+5 = 4 : 23

28) 180°-71° = 109°

29) 30x5 = 150
29x6 = 174
174-150 = $24

30)100-(3zx2+3z) = $(100-9z)

Paper 2

1) 21÷3x$4 = $28
$28/10x5 = $14

2) 3/4-3/20 = 3/5
3/5÷1/10 = 6 friends

3)100/120x90 = $75

4) √49 = 7
1/4x22/7x7x7 = 38.5 sq cm

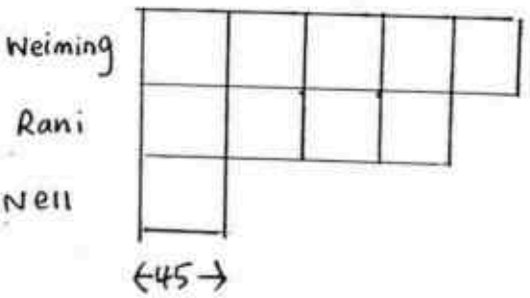
5) 60-22 = 38
38÷2 = 19
180-60-19 = 101°

6) 3 egg tarts = 18.50-14.75 = 3.75
9 egg tarts = 3.75x3 = 11.25
1 chicken pie = 14.75-11.25 = $3.50
5 pies = 5x$3.50 = $17.50

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7) 2u -- 144
1u -- 144/2 = 72
72x7 = 504

8a) 130 tickets
b) $1920

9) 

45x5 = 225 stickers

10) 7u -- 56
5u -- 5/7x56 = 40
1/2x56x40 = 1120 sq cm

11) 11u -- 363
21u -- 21/11x363 = 693
693x2 = 1386 sq cm

12a) 180°-104° = 76°
76°+76° = 152°
180°-152° = 28°
b) 76°+28° = 104°
180°-48° = 132°
132°-104° = 28°

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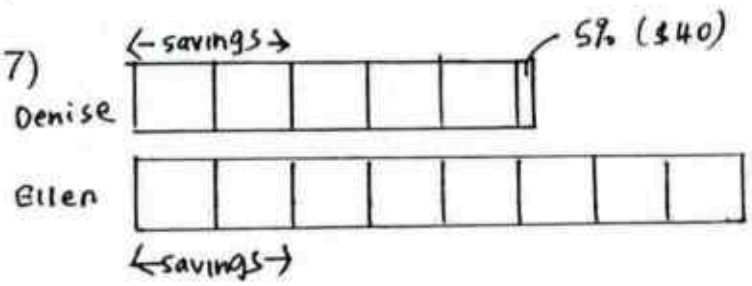
13a) 2L+3F = 186
1L+2F = 109
2L+4F = 218
Difference between foreign stamps, 1F = 218-186 = 32
b) 2F = 32x2 = 64
1L = 109-64 = 45

14a) 5bx5+4b-5+3b+8 = 25b+4b+3b+8-5 = (32b+3) books
b) 4b-5-3b-8 = b-13 = 30-13 = 17 books

15a) Arc length of big semi-circle = 3.14x10 = 31.4
Arc length of small semi-circle = 3.14x5 = 15.7
Perimeter of figure = 31.4+15.7+20 = 67.1 cm
b) Area of figure = 1/2x3.14x10x10+1/2x3.14x5x5 = 196.25 sq cm

16a) 3x21 = 63 sticks
b) 11x11 = 121 triangles
c) 1/2x16x17 = 136 dots

17)



a) 5% -- $40
105% -- 105/5x40 = $840
b) 40% -- $320
2u -- $320
8u -- $320x4 = $1280
212% -- $1280+$840 = $2120
112% -- 112/212x$2120 = $1120
$1280-$1120 = $160

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18a) $234 \div (3 \times 3) = 26$

$26 \times 3 = 78$ cm

b) $234 \div (6 \times 6) = 6.5$

$6 \times 6 \times 6 = 216$

$234 - 216 = 18$ cubes will not be used

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RED SWASTIKA SCHOOL

RED SWASTIKA SCHOOL

2015 SEMESTRAL ASSESSMENT 1

MATHEMATICS
PAPER 1

Name : _____ _____( )

Class : Primary 6 /

Date : 11 May 2015

BOOKLET A

15 Questions
20 Marks
Duration of Paper 1 (Booklets A & B): 50 minutes

Note:

1. Do not open this Booklet until you are told to do so.
2. Read carefully the instructions given at the beginning of each part of the Booklet.
3. Do not waste time. If a question is difficult for you, go on to the next one.
4. Check your answers thoroughly and make sure you attempt every question.
5. In this booklet, you should have the following:
   (a) Page 1 to Page 5
   (b) Questions 1 to 15
6. You are not allowed to use a calculator.

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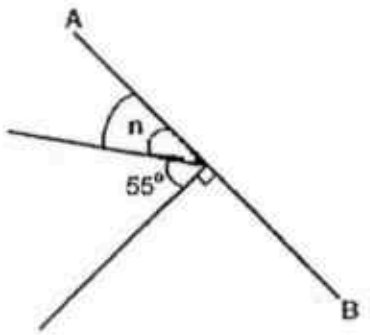
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

---

1 Simplify $8w + 7 + 3w - 6$

(1) $5w + 1$
(2) $5w - 1$
(3) $11w + 1$
(4) $11w - 1$

2 The figure below is not drawn to scale. AB is a straight line. Find $\angle n$.



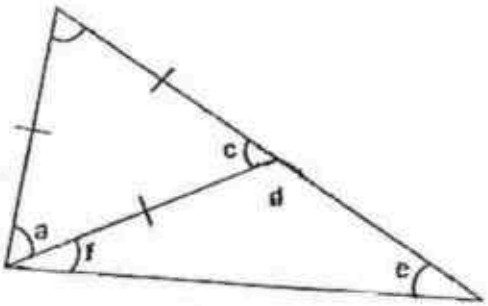
(1) 35°
(2) 55°
(3) 145°
(4) 215°

3 Express 12 days as a fraction of 6 weeks.

(1) $\frac{1}{2}$
(2) $\frac{1}{5}$
(3) $\frac{3}{4}$
(4) $\frac{2}{7}$

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4 The figure below is not drawn to scale. It is made up of two triangles, of which one is an equilateral triangle. Which of the following statements is **false**?

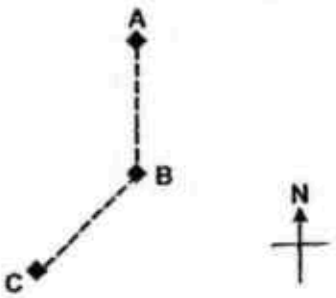


(1) $\angle b + \angle d = 180°$
(2) $\angle c + \angle d = 180°$
(3) $\angle b + \angle d + \angle e = 120°$
(4) $\angle a + \angle e + \angle f = 120°$

5 Ivan had 70 beads. He had 40% more beads than Elle. How many beads had Elle?

(1) 28
(2) 35
(3) 42
(4) 50

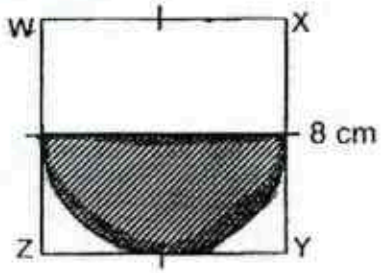
6 A, B and C are three cities on a map. A is north of B and $\angle ABC$ is $135°$. In which direction is C from B?



(1) North – East
(2) North – West
(3) South – East
(4) South – West

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7 The area below is made up of a square WXYZ of side 8 cm and a semicircle. Find the perimeter of the shaded part in terms of π.



(1) (4π) cm
(2) (8π) cm
(3) $(4\pi + 8)$ cm
(4) $(8\pi + 8)$ cm

8 Da Wen has thrice as many stamps as Tom. When Tom gives $\frac{1}{4}$ of his stamps to Da Wen, what is the ratio of the number of stamps Da Wen has to the number of stamps Tom has in the end?

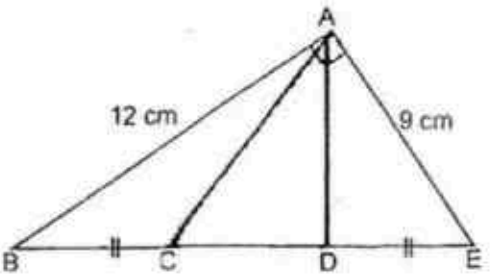
(1) 1 : 3
(2) 1 : 4
(3) 3 : 13
(4) 13 : 3

9 Which of the following does **not** have the same value as 75%?

(1) 0.75
(2) 7.5
(3) $\frac{3}{4}$
(4) $\frac{9}{12}$

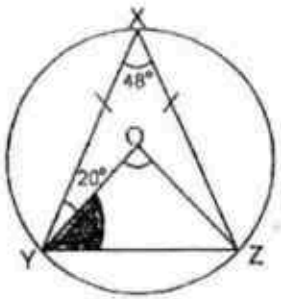
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10 Given that BC = CD = DE, find the area of Triangle ACD.



(1) 18 cm^2
(2) 24 cm^2
(3) 36 cm^2
(4) 54 cm^2

11 In the figure below O is the centre of the circle. XYZ is an isosceles triangle. Find ∠OYZ.



(1) 28°
(2) 46°
(3) 66 °
(4) 88°

12 Anna has $\frac{2}{7}$ as many pencils as Luke. Find the ratio of the number of Luke's pencils to the total number of their pencils.

(1) 2 : 7
(2) 2 : 9
(3) 7 : 2
(4) 7 : 9

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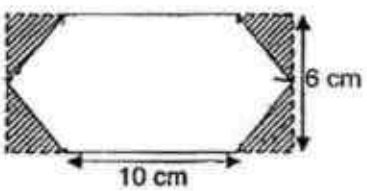
13 Which one of the following is most likely the length of a bed for an adult?

(1) 2 m
(2) 2 cm
(3) 20 m
(4) 20 cm

14 40% of the audience who attended a movie were men. During the show, 20% of the ladies and 10% of the men left the cinema. What percentage of the audience left the cinema?

(1) 12%
(2) 16%
(3) 30%
(4) 50%

15 The figure below shows 4 identical triangles being cut off from a rectangular piece of paper. Each triangle has an area of 6 cm^2. Find the length of the rectangular piece of paper.



(1) 14 cm
(2) 16 cm
(3) 18 cm
(4) 28 cm

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RED SWASTIKA SCHOOL

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2015 SEMESTRAL ASSESSMENT 1

MATHEMATICS
PAPER 1

Name : _____ ( )

Class : Primary 6 / _____

Date : 11 May 2015

BOOKLET B

15 Questions
20 Marks

In this booklet, you should have the following:
(a) Page 6 to Page 11
(b) Questions 16 to 30

MARKS

	OBTAINED	POSSIBLE
BOOKLET A		20
BOOKLET B		20
TOTAL		40

Parent's Signature : _____

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Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

16 Bala and Ali were working on their Social Studies projects. Bala spent m days to complete. He spent 6 more days than Ali. How many days did both of them spend on their Social Studies project altogether?

Ans: _____

17 14 : 35 : 63 = 2 : _____ : 9

Ans: _____

18 There were some books on a shelf. $\frac{1}{8}$ of them were fiction books and $\frac{3}{5}$ of them were non-fiction books. The rest were comic books. What fraction of the books were comic books?

Ans: _____

3

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19 Find the value of $6 + (65 - 35) \div 3$.

Ans: _____

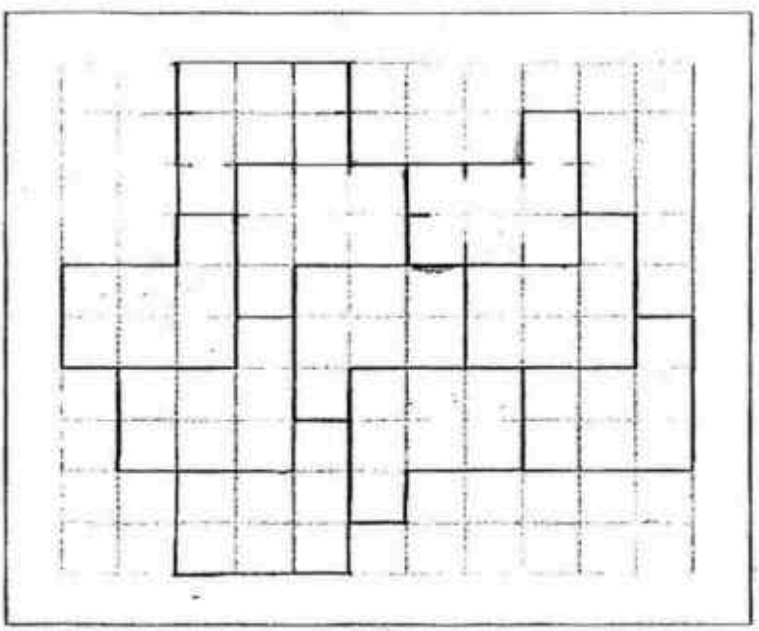
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20 Use all the digits 5, 4, 2 and 8 to form the number nearest to 5 000.

Ans: _____

---

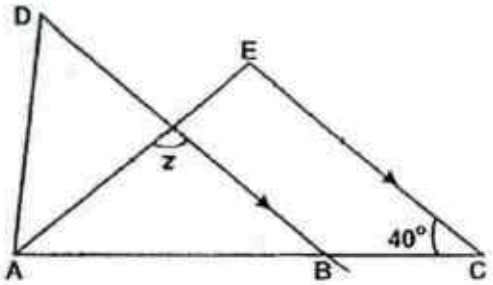
21 Draw 3 more units of the tessellation below.



3

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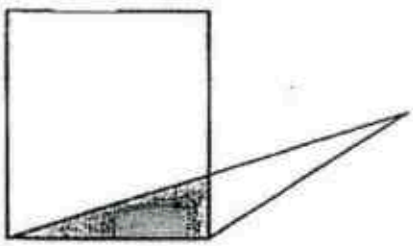
22 ADB and AEC are triangles. ABC is a straight line and AE = CE. DB is parallel to EC. Find $\angle z$.



Ans: _____ °

---

23 The figure below is made up of a rectangle and a triangle. $\frac{1}{5}$ of the rectangle and $\frac{3}{7}$ of the triangle are shaded. Given that the area of the unshaded part of the rectangle is 32 cm^2 bigger than the unshaded part of the triangle, find the area of the triangle.



Ans: _____ cm^2

2

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24 The table below shows the carpark charges at a shopping mall.

For the first hour	$2
For every additional 30 min or part thereof	$1.20

Peter parked his car in the carpark from 3.30 p.m. to 6.10 p.m. How much did he pay?

Ans: $_____

25 $\frac{1}{3}$ of a flower bed were lilies. $\frac{4}{5}$ of the lilies were white. Mary gave half of her white lilies to her sister. What fraction of the flowers did her sister receive? Give your answer as a fraction in its simplest form.

Ans: _____

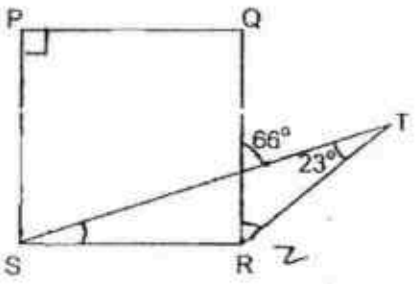
2

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Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

---

26 In the figure below, PQRS is a square. RTS is a triangle. Find ∠SRT.

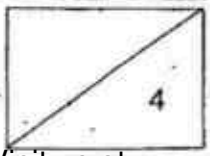


Ans: _____°

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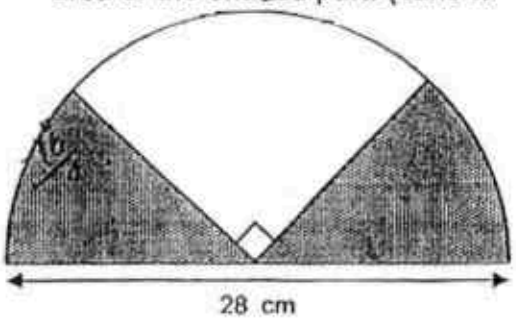
27 David is 20% taller than Farid. Ethan is 20% shorter than Farid. Ethan is 50 cm shorter than David. What is the height of Farid?

Ans: _____cm



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28 The figure below is made up of a semicircle and a quadrant. Find the area of the shaded part. (Take $\pi = \frac{22}{7}$)



Ans: _____ cm^2

---

29 Jane is $\frac{1}{6}$ of her father's age now. Her father will be 48 years old in 6 years time. How old will Jane be when she is $\frac{2}{7}$ of her father's age?

Ans: _____

---

30 David ran in a race and came in the 37th position. He came in just behind $\frac{4}{9}$ of all the participants. How many participants were there altogether?

Ans: _____

END OF PAPER 1

6

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RED SWASTIKA SCHOOL

RED SWASTIKA SCHOOL

2015 SEMESTRAL ASSESSMENT 1

MATHEMATICS
PAPER 2

Name : _____ ( )

Class : Primary 6 / _____

Date : 11 May 2015

18 Questions
60 Marks
Duration of Paper 2: 1 hour 40 minutes

Note:
1. Do not open this Booklet until you are told to do so.
2. Read carefully the instructions given at the beginning of each part of the Booklet.
3. Do not waste time. If a question is difficult for you, go on to the next one.
4. Check your answers thoroughly and make sure you attempt every question.
5. In this paper, you should have the following:
   (a) Page 1 to Page 15
   (b) Questions 1 to 18
6. You are allowed to use a calculator.

MARKS

	OBTAINED	POSSIBLE
PAPER 1		40
PAPER 2		60
TOTAL		100

Parent's Signature : _____

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Questions 1 to 5 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

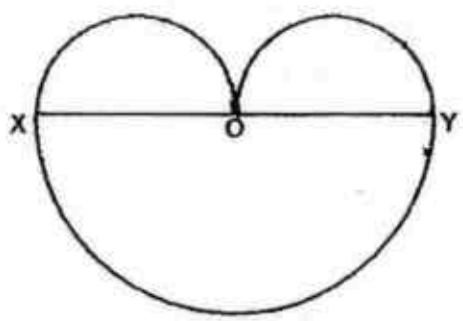
---

1 The ratio of the number of Jack's stickers to the number of Jill's stickers was 4 : 3. Jack gave Jill 8 of his stickers and they each had the same number of stickers. How many stickers did Jill have at first?

Ans: _____

---

2 The figure below, not drawn to scale, is made up of 3 semicircles. Q is the centre of the figure. XY is a straight line measuring 20 cm. Find the perimeter of the figure in terms of π.



Ans _____ cm

4

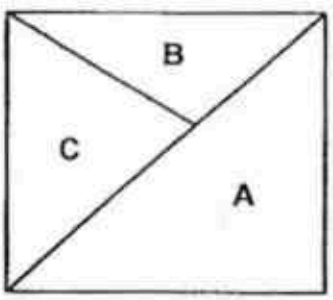
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3 Mrs Lee used 10 m of cloth to make 3 blouses and 5 skirts on Saturday. She used y m of cloth to make another 3 similar blouses and 3 similar skirts on Sunday. How much cloth did Mrs Lee use to make 1 skirt? Give your answer in terms of y.

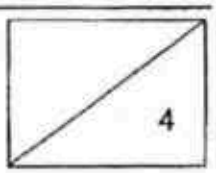
Ans: _____ m

---

4 The figure below shows a square that is divided into 3 parts A, B and C. The area of part B is $\frac{2}{3}$ the area of part C. What percentage of the square is part B?



Ans: _____ %



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5 Bob gave some cards to his friends. When he gave 3 cards to each friend, he would have 6 cards left. When he gave 4 cards to each friend, he would need 2 more cards. How many friends did Bob give his cards to?

Ans: _____

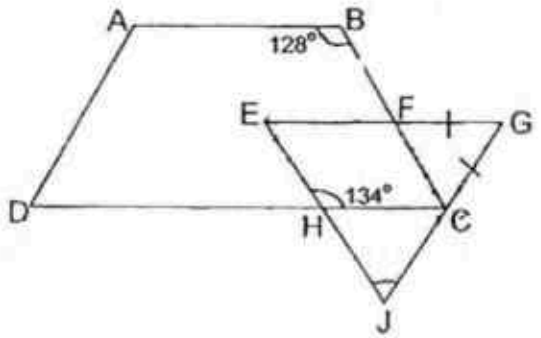
2

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For Questions 6 to 18, show your working clearly in the space below each question and write your answers in the spaces provided.
The number of marks available is shown in brackets [ ] at the end of each question or part-question. (50 marks)

---

6 The figure below is made up of Trapezium ABCD and Triangle EGJ. Given that EG // HC and CFG is an isosceles triangle, find ∠HJC.

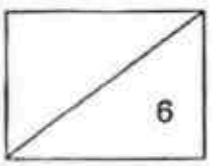


Ans: _____ [3]

---

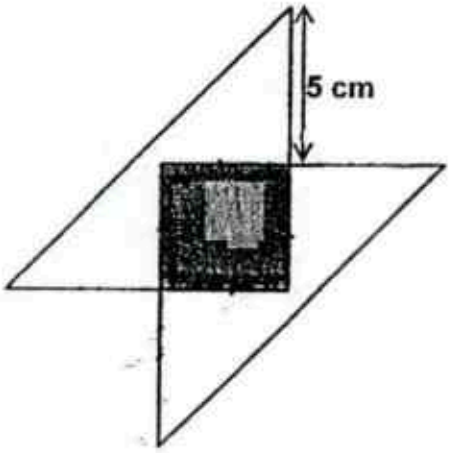
7 A basket contained some red roses and white roses in the ratio 9 : 4. After selling 43 red roses and putting in 17 white roses, there were now an equal number of red and white roses. How many red roses were there in the basket at first?

Ans: _____ [3]

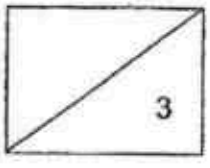


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8 The figure below is made up of two identical right-angled isosceles triangles which overlapped to form a square with a perimeter of 16 cm. Find the area of the **unshaded** parts.

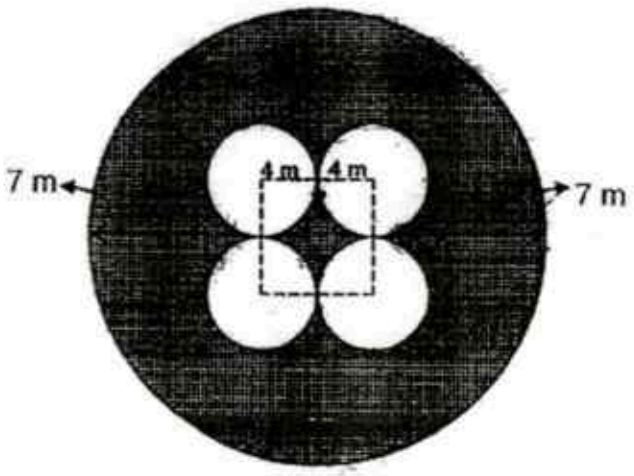


Ans: _____ [3]



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9 The figure below, not drawn to scale, is made up of 1 big circle and 4 identical smaller circles. Find the perimeter of the shaded parts.
(Take $\pi = 3.14$)

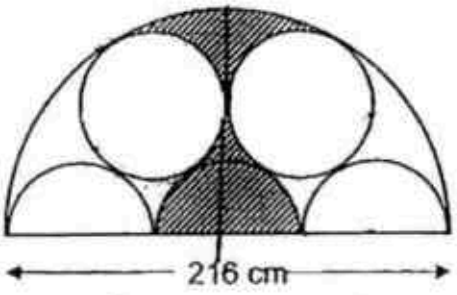


Ans: _____ [3]

3

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10 A piece of wire is used to make the figure shown below. Inside the big semicircle are 2 circles and 3 small semicircles, all of which have the same radius. Find the total shaded area. Express your answer in terms of π.



Ans: _____ [5]

5

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11 A 30% discount was given during a sale. There was a further 10% discount on the discounted price when one used his membership card. Mr Lee used his membership card and paid $1 889.37 for a television set at the sale. What was the original price of the television set?

Ans: _____ [3]

3

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12 A group of children was given some stickers. There was an equal number of boys and girls in the group. Each boy was given 4 stickers while each girl was given 7 stickers. The girls received a total of 258 stickers more than the boys. How many children were there in the group?

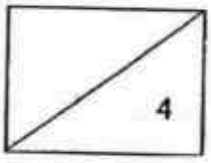
Ans: _____ [3]

3

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13 Farmer Tan gave his neighbours $\frac{2}{9}$ of his eggs and an additional 14 eggs. Then he sold $\frac{2}{5}$ of the remaining eggs. He had 147 eggs left. How many eggs did he have at first?

Ans: _____ [4]



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14 The ratio of the number of apples to the number of pears is 1 : 3. The ratio of the number of fruits which are good to the number that are rotten is 7 : 3. The ratio of the number of good apples to the number of rotten apples is 4 : 1. What is the ratio of the number of good pears to the number of rotten pears? Leave your answer in its simplest form.

Ans: _____ [4]

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15 There were a total of 308 wooden pegs in four boxes, W, X, Y and Z. When the number of pegs in W decreased by 8, the number in X increased by 12, the number in Y was halved and the number in Z was tripled, the number of pegs in each box was the same.

(a) How many pegs were there in Box X at first?

(b) How many fewer pegs were there in Box W than in Box Y at first?

Ans: (a) _____ [3]

(b) _____ [2]

5

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16 A pet shop owner had a total of 132 goldfish and angelfish in his aquarium. A customer came and bought 34 angelfish. He then increased the number of goldfish by 75%. After that, he had a total of 158 goldfish and angelfish. What percentage of the fishes were angelfish at first? Correct your answer to 1 decimal place.

Ans: _____ [5]

5

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17 Baker A and Baker B baked some tuna pies and chicken pies. The number of tuna pies that Baker A baked was equal to the number of chicken pies that Baker B baked. $\frac{2}{5}$ of the pies that Baker A baked were chicken pies while $\frac{5}{9}$ of the pies that Baker B baked were tuna pies. Both bakers baked a total of 360 chicken pies.

a) How many tuna pies did Baker B bake?

b) Given that the cost of 1 chicken pie was $1.60, how much did Baker A get for selling $\frac{1}{2}$ of the chicken pies that he baked?

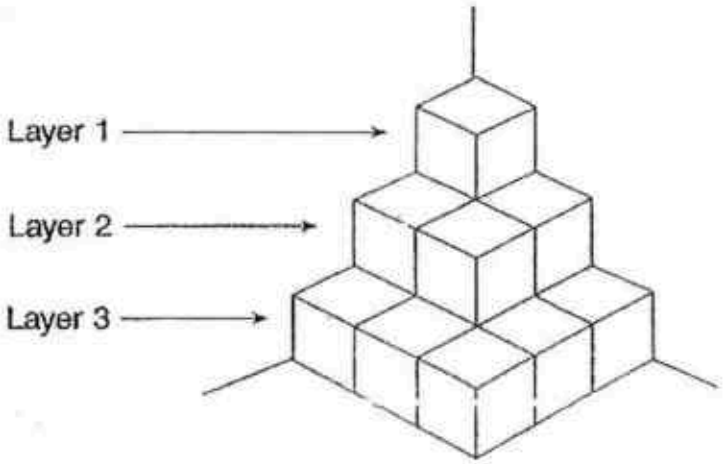
Ans: (a) _____ [3]

(b) _____ [2]

5

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18 The solid below is made up of unit cubes of side 4 cm.



a) What is the volume of the solid?

b) If more cubes are added to the base of the solid. how many cubes will there be in the 50^{th} layer?

Ans: (a) _____ [2]

(b) _____ [2]

END OF PAPER 2

4

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RED SWASTIKA SCHOOL
2015 SEMESTRAL ASSESSMENT 1
MATHEMATICS PRIMARY 6

PAPER 1

1) 3 2) 1 3) 4 4) 3 5) 4 6) 4 7) 3
8) 4 9) 2 10) 1 11) 2 12) 4 13) 1 14) 2
15) 3

16) m-6+m = (2m-6) days

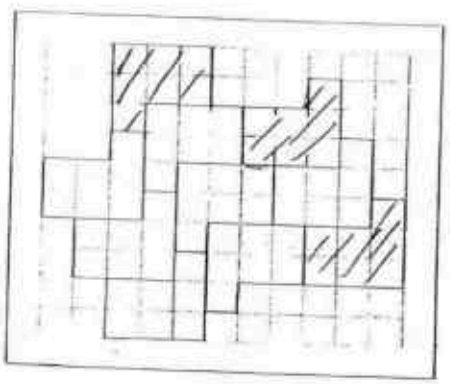
17) 5

18) 1-1/8-3/5 = 11/40

19) 6+30÷3 = 6+10 =16

20) 4852

21)



22) Angle EAC = 40° (base angle of isosceles triangle)
Angle ABD = 40° (corresponding angles)
Angle z = 180°-40°-40° = 100°

23) 1/5 = 3/15
15u-3u = 12u (unshaded part of rectangle)
12u-4u = 8u
8u -- 32 sq cm
7u -- 7/8x32 = 28 sq cm

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24) 1x$2 + 4x$1.20 = $2+$4.80 = $6.80

25) 4/5x1/3x1/2 = 2/15

26) Angle QRT = 66°-23° = 43°
Angle SRT = 90°+43° = 133°

27) D : F : E
6 : 5 : 4
2u -- 50 cm
5u -- 5/2x50 = 125 cm

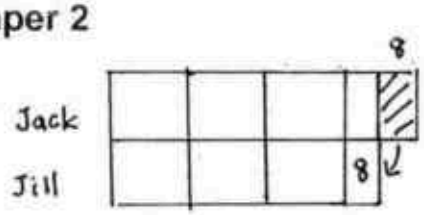
28) Area of shaded area = 1/4x22/7xπx14x14 = 154 sq cm

29) Present age of Jane's father = 8-6 = 42 years old
Present age of Jane = 42÷6 = 7 years old
Difference in their age = 42-7 = 35 years
5u -- 35
2u -- 2/5x35 = 14 years' old

30) 4u -- 36
9u -- 9/4x36 = 81 participants

Paper 2

1)



1u -- 8
6u -- 6x8 = 48 stickers at first

2) Perimeter of figure = 1/2x2xπx10 + 2xπx5 = 10π+10π = 20π cm

3) 3B+5S = 10
3B+3S = y
Difference, 2S=10-y
Ans : (10-y)/2 m

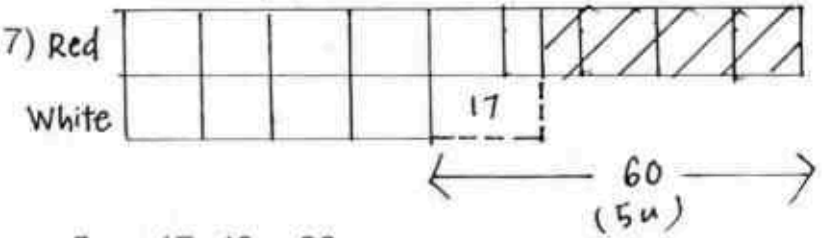
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4) A : B : C
5 : 2 : 3
2/10x100% = 20%

5) 6+2 = 8
4-3 = 1
8÷1 = 8 friends

6) Angle EFB = Angle CFG = Angle FCG = Angle HCF = 180°-128° = 52°
Angle HCJ = 180°-52°-52° = 76°
Angle HJC = 134°-76° = 58°

7)



5u -- 17+43 = 60
9u -- 9/5x60 = 108 red roses

8) Length of square = 16÷4 = 4cm
Area of square = 4x4 = 16 sq cm
Area of triangle = 1/2x9x9 = 40.5
Area of unshaded part of triangle = 40.5-16 = 24.5 sq cm
Area of unshaded parts of figure = 24.5x2 = 49 sq cm

9) Perimeter of shaded parts = 3.14x30 + 4x3.14x8 = 194.68 m

10) Radius of 1 small semi-circle = 216÷6 = 36 cm
Area of 1 big semi-circle - area of 7 small semi-circles =
1/2xπx108x108 - 7x1/2xπx36x36 = 1296 π sq cm
1296π÷3 = 432π
Total shaded area = 432π + 1/2xπx36x36 = 1080π sq cm

11) 90% -- $ 1889.37
100% -- 100/90x1889.37 = $ 2099.30
70% -- $ 2099.30
100% -- 100/70x2099.30 = $ 2999

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12) 7-4 = 3
258÷3 = 86
86x2 = 172 children

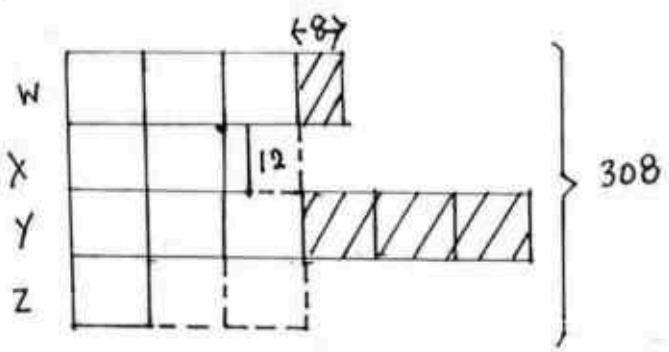
13) 3u -- 147 eggs
5u -- 5/3x147 = 245
245+14 = 259
7u -- 259
9u -- 9/7x259 = 333 eggs at first

14)

	Apples : Pears
good	4 : __
bad	1 : __
	1 : 3
	= 5 : 15

so, total is 20u
since good fruit : bad fruit = 7 : 3 = 14 : 6 (20u)
14-4 = 10, 6-1 = 5
hence, the ratio of good pears to the number of rotten pears =10 : 5 = 2 : 1

15)



a) 308-8+12 = 312
312÷13 = 24
24x3 = 72
72-12 = 60 pegs in Box X at first
b) 72x2-(72+8) = 144-80 =64 fewer pegs in Box W than in Box Y at first

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16) 132-34 = 98
158-98 = 60
3u -- 60
4u -- 4/3x158 = 80
132-80 = 52
52/132x100% = 39.4%

17 T : C
A 3 : 2
B 5 : 4
since tuna pies in A equal chicken pies in B,
A 12 : 8
B 15 : 12
hence,
a) 12u+8u = 20u
20u -- 360
15u -- 15/20x360 = 270 tuna pies
b) 8u -- 18x8 = 144
144÷2 = 722
72x$1.60 = $115.20

18a) 1 cube -- 4x4x4 = 64 cubic cm
1+4+9 = 14
14 cubes -- 64x14 = 896 cubic cm
b) Layer 50 -- 50x50 = 2500 cubes

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HENRY PARK PRIMARY SCHOOL
2015 SEMESTRAL EXAMINATION 1
MATHEMATICS
PRIMARY 6

PAPER 1
(BOOKLET A)

Name: _____( )

Parent's Signature

Class: Primary 6_____

_____

Marks:

Paper 1	Booklet A	20
	Booklet B	20
Paper 2		60
Total		100

Total Time for Booklets A and B: 50 min

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Shade your answers in the Optical Answer Sheet (OAS) provided.
You are **not** allowed to use a calculator.

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Booklet A:
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each.
For each of the questions, four options are given. One of them is the correct answer. Choose the correct answer (1, 2, 3 or 4). Shade the correct oval on the Optical Answer Sheet provided.

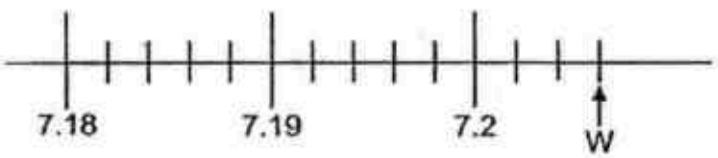
(20 marks)

1. There were 398 524 views to a certain YouTube video last week. Express this number to the nearest thousand.

   (1) 390 000
   (2) 398 000
   (3) 399 000
   (4) 400 000

   ( )

2. Part of a scale is shown below. What is the value of the reading at W?

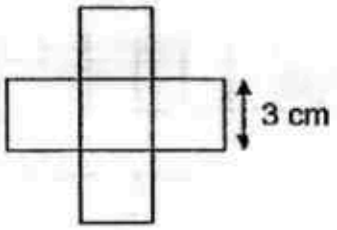


   (1) 7.203
   (2) 7.206
   (3) 7.23
   (4) 7.26

   ( )

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3. The figure below is made up of 5 identical squares. The length of each side of a square is 3 cm.



What is the total area of the figure?

(1) 15 cm^2
(2) 36 cm^2
(3) 45 cm^2
(4) 60 cm^2

( )

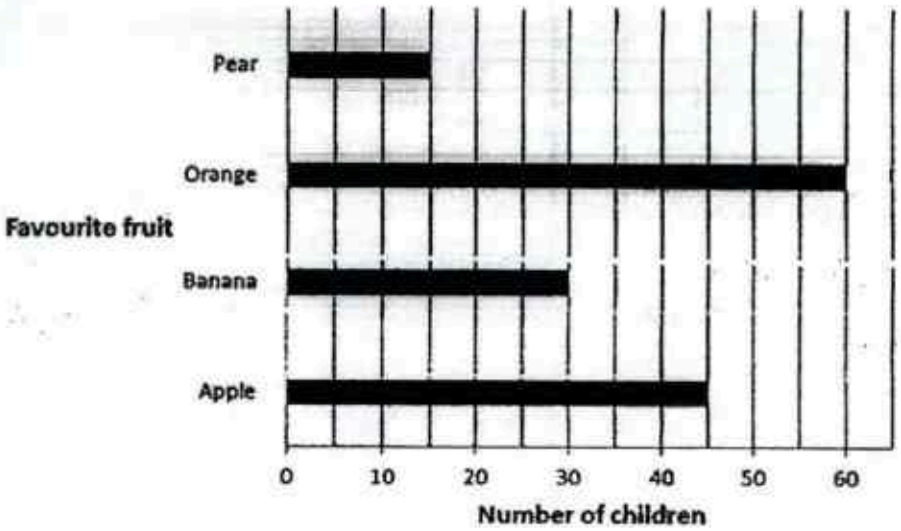
4. Dr Tan's clinic is opened from 8.30 a.m. to 4.45 p.m. daily. How long is his clinic opened each day?

(1) 4 h 15 min
(2) 4 h 45 min
(3) 8 h 15 min
(4) 8 h 45 min

( )

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5. A group of 150 children were asked to name their favourite fruit. The bar graph shows their choices and the number of children who chose each of the fruit.



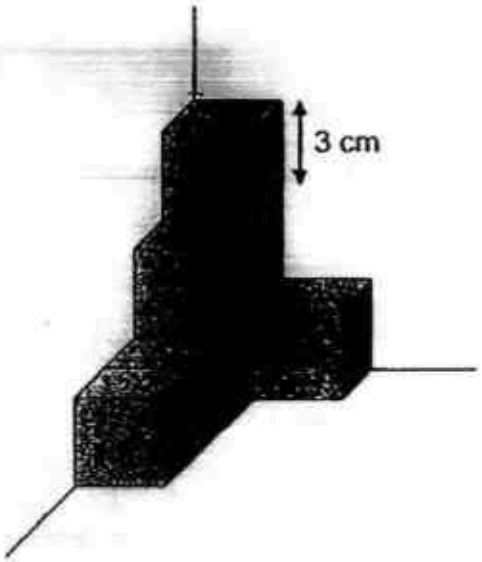
What percentage of the children chose apple as their favourite fruit?

(1) 20%
(2) 30%
(3) 40%
(4) 45%

( )

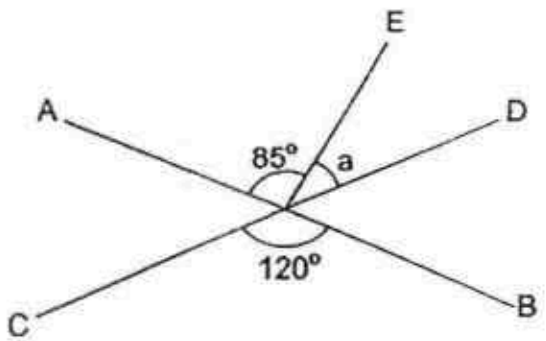
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6. The solid below is made up of identical cubes. The length of each side of the cube is 3 cm. Find the volume of the solid.



(1) 24 cm^3
(2) 72 cm^3
(3) 189 cm^3
(4) 216 cm^3 ( )

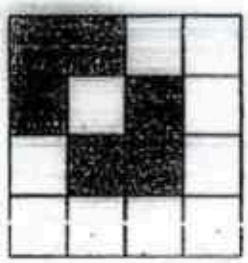
7. In the figure below, AB and CD are straight lines. Find ∠a.



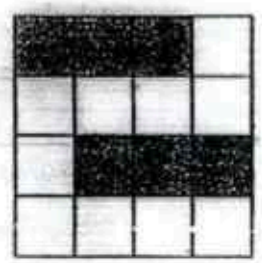
(1) 15°
(2) 35°
(3) 45°
(4) 60° ( )

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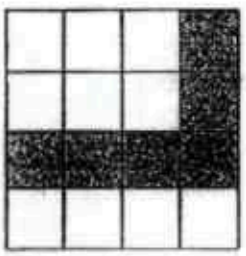
8. Each of the figure below is made up of 16 squares. Six of the squares in each figure are shaded. Which of the following is a symmetric figure?



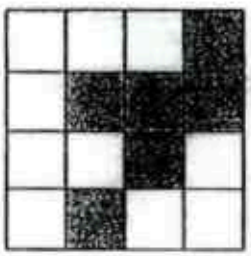
(1)



(2)



(3)



(4)

( )

9. Find the missing number in the box below.

6 : 21 = ? : 28

(1) 7
(2) 8
(3) 12
(4) 13

( )

10. What is the value of $27 - 3p$ when $p = 4$?

(1) 12
(2) 15
(3) 20
(4) 23

( )

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11. Arrange the following fractions from the largest to the smallest:

$\frac{9}{7}$, $1\frac{2}{9}$, $\frac{5}{3}$

(1) $\frac{5}{3}$, $\frac{9}{7}$, $1\frac{2}{9}$

(2) $\frac{9}{7}$, $\frac{5}{3}$, $1\frac{2}{9}$

(3) $\frac{5}{3}$, $1\frac{2}{9}$, $\frac{9}{7}$

(4) $\frac{9}{7}$, $1\frac{2}{9}$, $\frac{5}{3}$ ( )

12. The average of 5 numbers is 16. When a number was added, the average became 17. What is the value of the number added?

(1) 15
(2) 16
(3) 22
(4) 33 ( )

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13. The overseas postage rates to two countries are shown below.

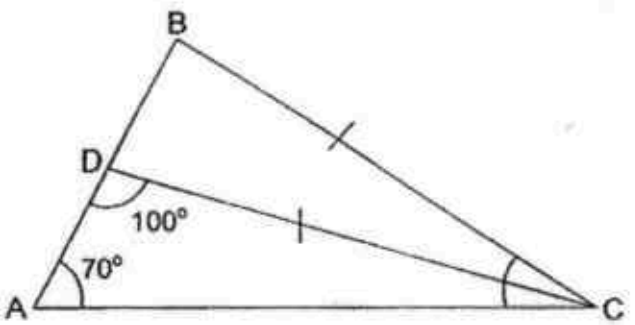
	Hong Kong	USA
1st 5kg	$30	$50
Every additional kg or part thereof	$5	$9

Sally sent a parcel weighing 5.5 kg to Hong Kong and a parcel weighing 7 kg to USA. How much did she pay altogether?

(1) $94.00
(2) $98.00
(3) $100.50
(4) $103.00

( )

14. Triangle ABC below is not drawn to scale. BC is equal to DC. Find ∠ACB.



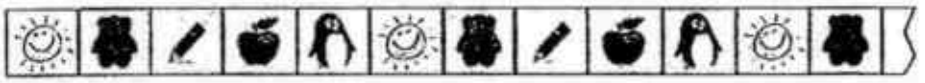
(1) 10°
(2) 20°
(3) 30°
(4) 40°

( )

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15. A roll of ribbon has 5 different pictures on it. The pictures follow a repeated pattern as shown below.

Miss Chua cut out a length of ribbon containing a total of 111 pictures. How many  pictures were there in the length of ribbon Miss Chua cut out?



(1) 23
(2) 22
(3) 11
(4) 9

( )

(Go on to Booklet B)

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HENRY PARK PRIMARY SCHOOL
2015 SEMESTRAL EXAMINATION 1
MATHEMATICS
PRIMARY 6

PAPER 1
(BOOKLET B)

Name: _____( )

Class: Primary 6_____

20

Total Time for Booklets A and B: 50 min

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

You are **not** allowed to use a calculator.

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Booklet B:
Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

---

16. Find the value of $\frac{1}{6} \div \frac{3}{8}$. Give your answer as a fraction in the simplest form.

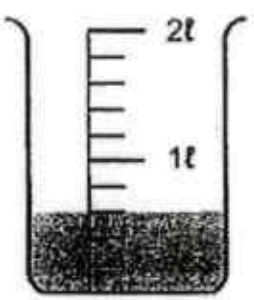
Do not write in this space

Ans: _____

17. Find the value of 1.07×900.

Ans: _____

18. What is the volume of the water in the beaker as shown below?



Ans: _____ mℓ

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19. After every 3 hours, Jason's clock is always faster by 2 minutes. Given that the time shown on Jason's clock now is 11 00, what time will his clock show 12 hours later?
(Give your answer in the 24-hour clock)

Do not write in this space

Ans: _____

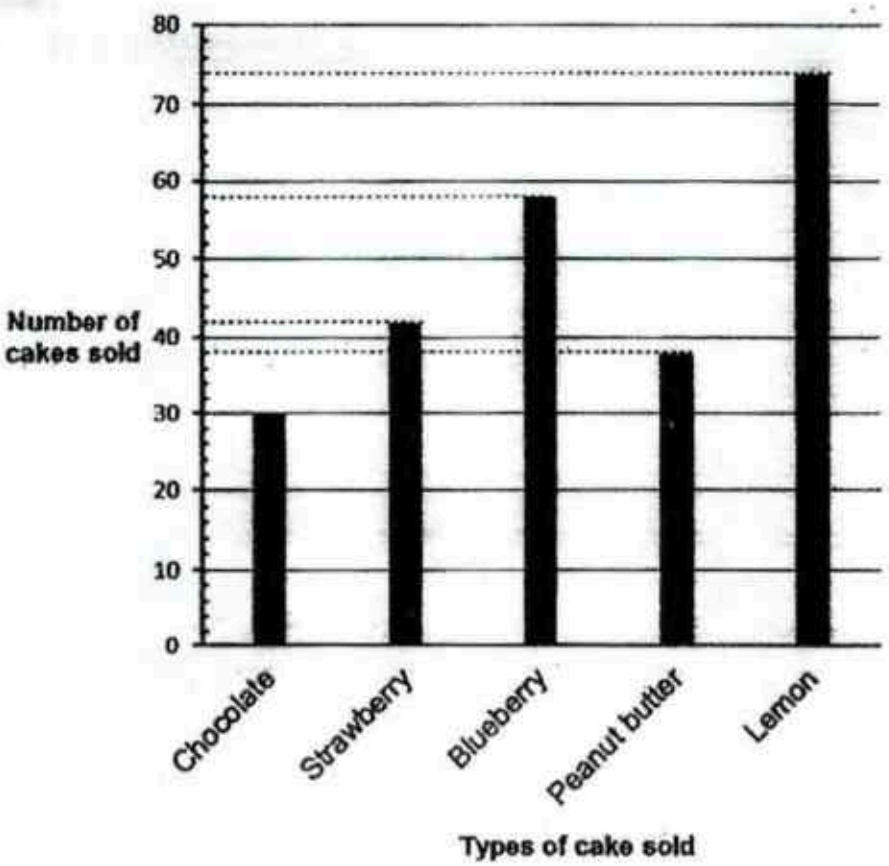
20. A beanbag has a mass of 20 g. Remy puts 40 such beanbags in an empty basket and weighs them. The weighing scale shows 1 kg. What is the mass of the empty basket?

Ans: _____ g

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21. The bar graph below shows the different types of cakes sold by a bakery in January.

Do not write in this space



What is the difference in the number of lemon and blueberry cakes sold?

Ans: _____

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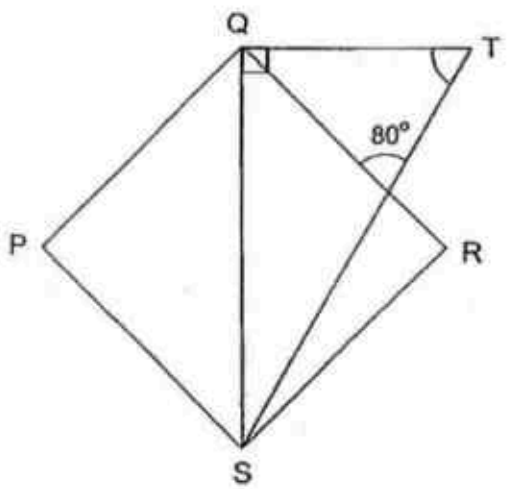
22. The table below shows the masses of Alvin, Bala and Chong Wen. What is the average mass of the 3 boys?

Name of boys	Mass (kg)
Alvin	43
Bala	37
Chong Wen	52

Do not write in this space

Ans: _____ kg

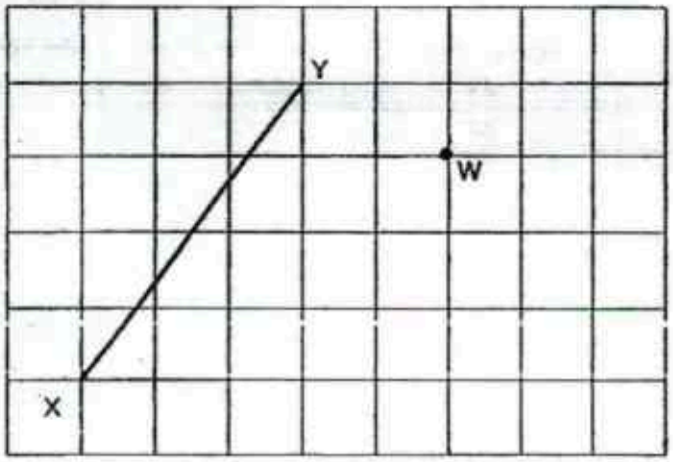
23. In the figure below, PQRS is a square and SQT is a right-angled triangle. Find ∠QTS.



Ans: _____ °

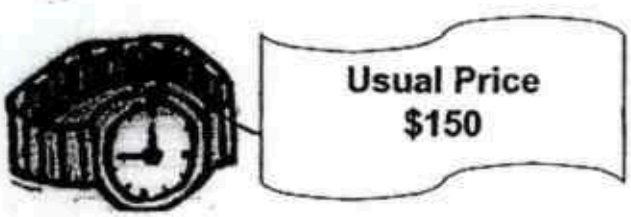
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24. The figure below shows a line XY and a point W. Draw a line parallel to XY passing through point W.



Do not write in this space

25. Bob bought a watch at a 20% discount. How much discount did he receive?



Ans: $ _____

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Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

Do not write in this space

26. Express 6.26 as a mixed number in its simplest form.

Ans: _____

27. A box contained 400 blue and red marbles. The ratio of the number of red marbles to the number of blue marbles was 2 : 3.
How many blue marbles were in the box?

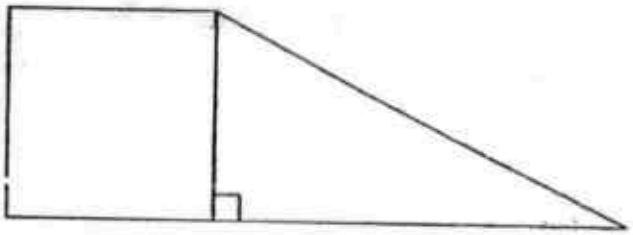
Ans: _____

28. There were a total of 160 chocolate and strawberry sweets in a container. After 16 strawberry sweets were removed, there were 3 times as many chocolate sweets as strawberry sweets left in the container. How many strawberry sweets were left?

Ans: _____

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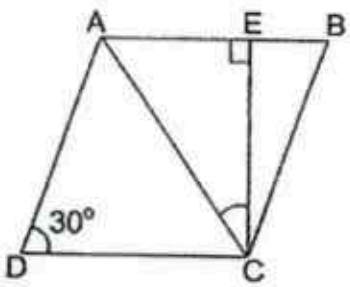
29. The figure below is made up of a right angled triangle and a square. The area of the square is 81 cm^2. Given that the height of the triangle is $\frac{3}{4}$ its base, find the area of the triangle.



Do not write in this space

Ans: _____ cm^2

30. ABCD is a rhombus. EC is perpendicular to AB. Find ∠ACE.



Ans: _____ °

End of Paper

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HENRY PARK PRIMARY SCHOOL
2015 SEMESTRAL EXAMINATION 1
MATHEMATICS
PRIMARY 6

PAPER 2

Name: _____( )

Class: Primary 6_____

/ 60

Time for Paper 2: 1 h 40 min

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Show your working clearly as marks are awarded for correct working.

Write your answers in this booklet.

You are allowed to use a calculator.

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Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the space provided. For questions which require units, give your answers in the units stated.

(10 marks)

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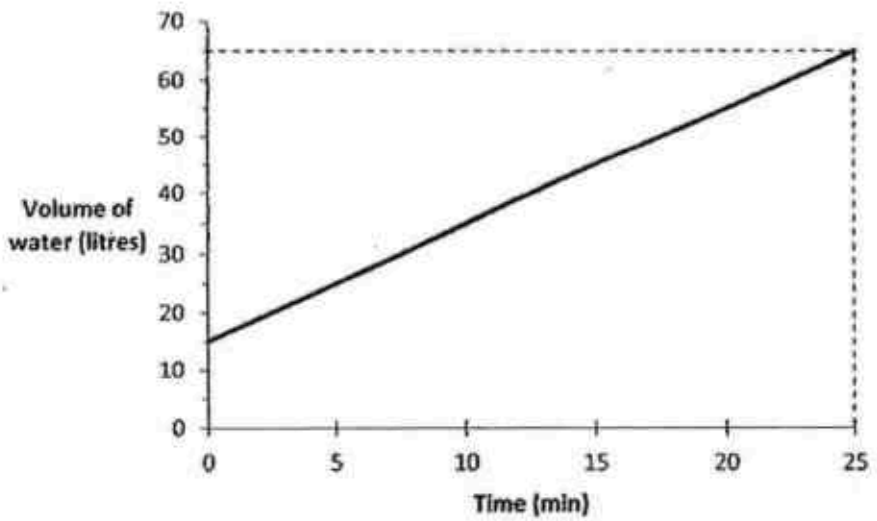
1. A rectangular tank, 20 cm by 25 cm by 9 cm, was filled to the brim with water. 4 ℓ of water was then poured out from it. Find the volume of the remaining water in the tank.

Do not write in this space

Ans: : _____ cm^3

2. A tank contained some water at first. A tap was turned on to fill the tank with water at a constant rate. After 25 minutes, the tap was turned off

The graph below shows the volume of water in the tank during the 25 minute period.



How many litres of water flowed into the tank per minute?

Ans: _____ litres

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3. The figure below is made up of 3 identical squares. The area of the shaded part is 216 cm^2. Find the area of 1 square.

Do not write in this space



Ans: _____ cm^2

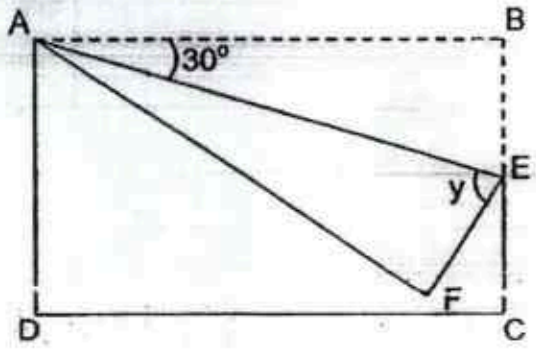
4. A supermarket had a promotion for ice cream cones. Wendy bought some for her birthday party and paid $74.10 for them. How many ice cream cones did she ~~buy~~ receive in total?



Ans: _____

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5. The figure below shows a rectangular piece of paper ABCD folded along AE. $\angle BAE = 30°$. Find $\angle y$.



Do not write in this space

Ans: _____ °

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For questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (50 marks)

---

6. Jasmine had some pink and yellow paper butterflies. She used $\frac{2}{3}$ of her pink paper butterflies and $\frac{1}{2}$ of her yellow paper butterflies on some greeting cards. She used 48 butterflies of each colour. How many paper butterflies did Jasmine have at first?

Ans: _____ [3]

Do not write in this space

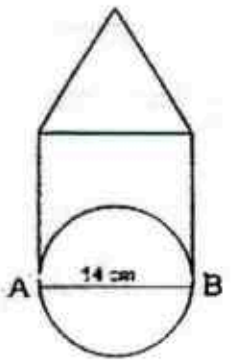
7. The mass of a container with 20 marbles is 2.59 kg. The mass of the same container with 13 marbles is 1.96 kg. Given that each of the marbles has the same mass, what is the mass of the empty container?

Ans: _____ [4]

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8. The figure below is made up of a circle, an equilateral triangle and a square of side 14 cm. AB is the diameter of the circle. Find the perimeter of the figure. (Take $\pi = \frac{22}{7}$)

Do not write in this space



Ans: _____ [3]

9. A shop sells caramel muffins at $4.50 each and walnut muffins at $3.90 each. Sam bought both types of muffins for his birthday party. He paid a total of $308.40 for 74 muffins. How many caramel muffins did Sam buy?

Ans: _____ [3]

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10. The average mass of a few bags of rice is 30 kg. When another bag of rice with a mass of 44 kg is added, the average mass of the bags of rice increased to 32kg. How many bags of rice were there at first?

Do not write in this space

Ans: _____ [3]

11. Siva sold some pears over a period of time. Each day, he sells $(k + 1)$ more pears than the day before. He sold 25 pears on the first day.

a) How many pears did he sell on the 4th day? Give your answer in terms of k in the simplest form.

b) On which day would he have sold $(77 + 52k)$ pears?

Ans: a) _____ [1]

b) Day _____ [2]

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12. At a concert, 35% of the audience were female adults, 46 % were male adults and the rest were children. There were 152 children at the concert.

a) How many male adults were there at the concert?

b) Given that 80 male adults left the concert before it ended, what percentage of the audience was made up of male adults at the end of the concert?

Ans: a) _____ [2]

b) _____ [2]

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13. May, Nancy, Oliver and Paul shared some stamps. The ratio of the number of stamps May had to the total number of stamps Nancy, Oliver and Paul had was 1 : 5. The ratio of the number of stamps Nancy had to the total number of stamps May, Oliver and Paul had was 5 : 7.

a) Find the ratio of the number stamps May had to the number of stamps Nancy had.

b) The ratio of the number of stamps Oliver had to the number of stamps Paul had is 7 : 3. Paul had 63 stamps. How many more stamps did Nancy have than Paul?

Do not write in this space

Ans: a) _____ [1]

b) _____ [3]

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14. Last year, a total of 2 432 members joined the Outdoor Adventure Club. This year, after 42 more female members joined and 56 male members left, there were twice as many male members as female members who were in the Outdoor Adventure Club. How many male members joined the Outdoor Adventure Club last year?

Do not write in this space

Ans: _____ [5]

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15. Benny spent $\frac{1}{5}$ of his money on 4 pineapples and 8 mangoes. The cost of a pineapple was 4 times that of a mango. Benny bought some more pineapples with $\frac{1}{2}$ of his remaining money. How many pineapples did Benny buy in all?

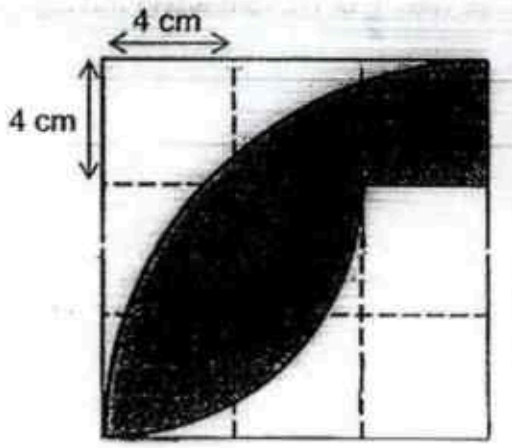
Do not write in this space

Ans: _____ [5]

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16. A figure is formed using 2 quarter circles and 2 straight lines on a square grid as shown below. The side of each small square is 4 cm. Taking $\pi = 3.14$, find the area of the shaded figure.

Do not write in this space

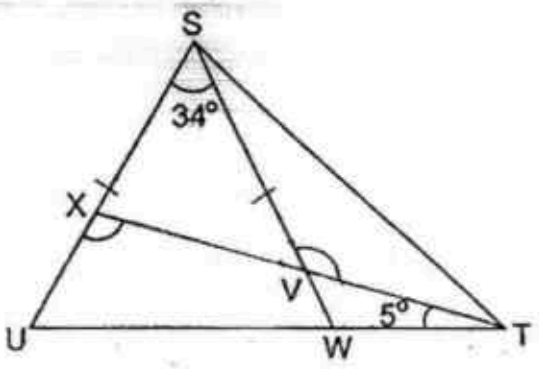


Ans: _____ [5]

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17. In the figure below, not drawn to scale, SU = SW. ∠USW = 34° and ∠XTU = 15°. XVT and SVW are straight lines.

Find:
a) ∠UXT
b) ∠SVT



Do not write in this space

Ans: (a) _____ [2]

(b) _____ [2]

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18. Grandpa Andy had 8320 coins in his collection. 25% of the coins were from Singapore and the rest of the coins were from Europe. He sold some of his coins from Europe. As a result, the percentage of coins from Singapore increased to 32%. Find the number of coins from Europe Grandpa Andy sold.

Do not write in this space

Ans: _____ [4]

END OF PAPER-

Setters: Mr Bernard Li Ms Chin Lian Mei
Mrs Josephine Lai Ms Yew Hew Mei

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EXAM PAPER 2015

SCHOOL : HENRY PARK

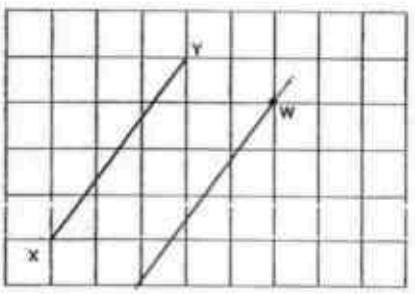
SUBJECT : P6 MATHEMATICS

TERM : SA1

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	2	3	3	2	4	2	1	2	2
Q11	Q12	Q13	Q14	Q15					
1	3	4	3	1					

16)4/9 17)963 18)600ml 19)2308 20)200g

21)16 22)44kg 23)55° 24)



25)$30 26)$6\frac{13}{50}$ 27)240

28)36 29)54cm^2 30)15°

<u>Paper 2</u>

1)20cm x 25cm = 4500cm^3

4L = 4000ml = 4000cm^3

4500cm^3 – 4000cm^3 = 500cm^3

2)65 – 15 = 50

50 ÷ 25 = 2 litres

3)216cm^2 x 2 = 432cm^2

432cm^2 ÷ 3 = 144cm^2

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4)$1.30 x 2 $2.60

$74.10 ÷ $2.60 = $28.50

28 x $2.60 = $72.80

$74.10 – $72.80 = $1.30

28 x 3 = 84

84 + 1 = 85

5)180° – 90° – 30° = 60°

6)48 ÷ 2 = 24

24 x 3 = 72

48 x 2 = 96

96 + 72 = 168

7)20M – 13M = 2.59 – 1.96

= 0.63 = 7M

M = 0.63 ÷ 7 = 0.09

13M = 0.09 x 13 = 1.17

C = 1.96 – 1.17 = 0.79kg

8)½∏d→ ½ x 22/7 x 14/1 = 22

(4 x 4) + 22 = 78cm

9)74 x $3.90 = $288.60

$308.40 – $288.60 = $19.80

$4.50 – $3.90 = $0.60

$19.80 ÷ $0.60 = 33

10)44 – 32 = 12

12 ÷ 2 = 6

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11)a)25 + 3 + 3k = 28 + 3k

b)77 – 25 = 52

52 + 1 = 53

12)100% - 35% - 46% = 19%

19% of audience = 152

1% audience = 152 ÷ 19 = 8

46% of audience = 8 x 46 = 368

100% of audience = 8 x 100 = 800

800 – 80 = 720

288/720 = 40/100

a)368

b)40%

13)7u + 3u = 10u

3u = 63

1u = 63 ÷ 3 = 21

10u = 21 x 10 = 210

2 + 5 = 7

12 – 7 = 5

210 ÷ 5 = 42

5 x 42 = 210

210 – 63 = 147

a)2 : 5

b)147

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14)2432 + 42 – 56 = 2418

2418 ÷ 32 = 806

806 x 2 = 1612

1612 + 56 = 1668

15)P→4u M→1u

4 x 4 = 16

16 + 8 = 24

½ x 4/5 = 2/5

24 x 5 = 120

24 x 2 = 46

48 ÷ 4 = 12

12 + 4 = 16

16)8 x 4 = 32

32 + 13.76 = 45.76

113.04 – 45.76 = 67.28cm_2

17)180 – 34 = 146

146 ÷ 2 = 73

180 – 73 = 107

180 – 107 – 15 = 58

180 – 58 = 122

180 – 58 – 34 = 88

180 – 58 = 92

a)92°

b)122°

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18)32% of after he sold Europe coins collection = 2080

1% of after he sold Europe coins collection = 2080 ÷ 32 = 65

100% of after he sold Europe coins collection = 6500

100% - 32% = 68%

6500 – 2080 = 4420

100% - 25% = 75%

75/100 x 8320 = 6240

6240 – 4420 = 1820

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Anglo-Chinese School (Junior)

SEMESTRAL ASSESSMENT 1 (2015)
PRIMARY 6

MATHEMATICS

PAPER 1
Booklet A

Wednesday **6 May 2015** **50 min**

INSTRUCTIONS TO PUPILS

DO NOT TURN OVER THE PAGES UNTIL YOU ARE TOLD TO DO SO

Follow all instructions carefully.

There are 15 questions in this booklet.

Answer ALL questions.

You are **not** allowed to use a calculator.

Name : _____ ( )

Class : 6.( )

Parent's Signature:_____

This question paper consists of 9 printed pages. (Inclusive of cover page)

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Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer sheet. (20 marks)

---

1. Round off 129.46 m to the nearest metre.

   (1) 129 m

   (2) 129.40 m

   (3) 129.50 m

   (4) 130 m

2. Express 2.015 as an improper fraction.

   (1) $\frac{2015}{10}$

   (2) $\frac{2015}{100}$

   (3) $\frac{2015}{1000}$

   (4) $\frac{2015}{10000}$

3. When a number is divided by 7, the quotient is 5 and the remainder is 3. What is the number?

   (1) 15

   (2) 22

   (3) 26

   (4) 38

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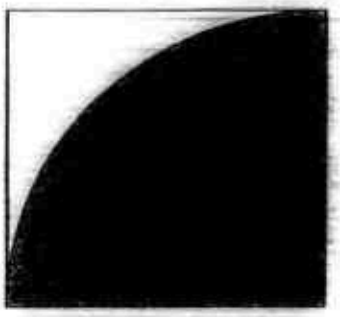
4. The figure below shows a square and a quadrant. Find the perimeter of the shaded part. (Take $\pi = \frac{22}{7}$)

(1) 11 cm

(2) 25 cm

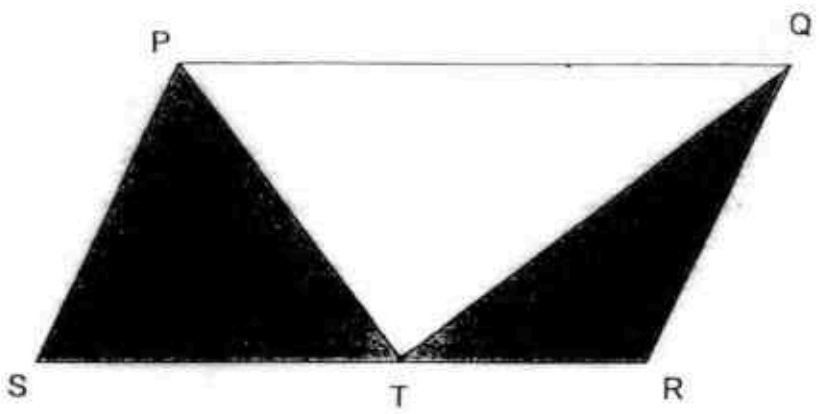
(3) 44 cm

(4) 58 cm



7 cm

5. In the figure, PQRS is a parallelogram with an area of 126 cm^2. What is the area of the shaded part?



(1) 42 cm^2

(2) 63 cm^2

(3) 105 cm^2

(4) 126 cm^2

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6. A tank has a rectangular base of length 18 cm and breadth 15 cm. It contained 2700 mℓ of water when it is filled with water to the brim. What is the height of the tank?

(1) 5

(2) 10

(3) 15

(4) 20

7. The sum of 5 numbers is 250. One of the numbers is 60. What is the average of the other 4 numbers?

(1) 77.5

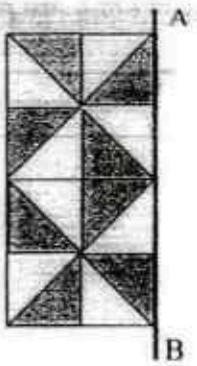
(2) 62

(3) 47.5

(4) 38

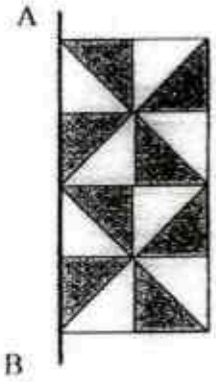
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8.

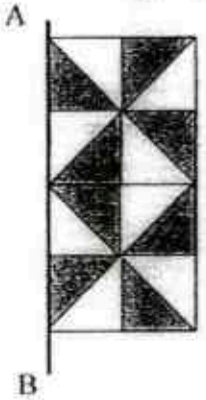


The left side of a symmetric figure is show above. AB is the line of symmetry. Which one of the following completes the symmetric figure?

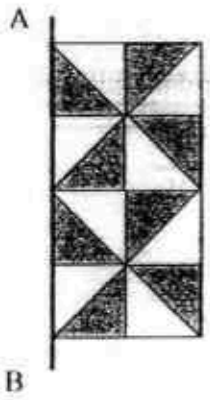
1)



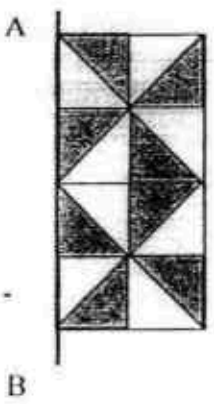
2)



3)

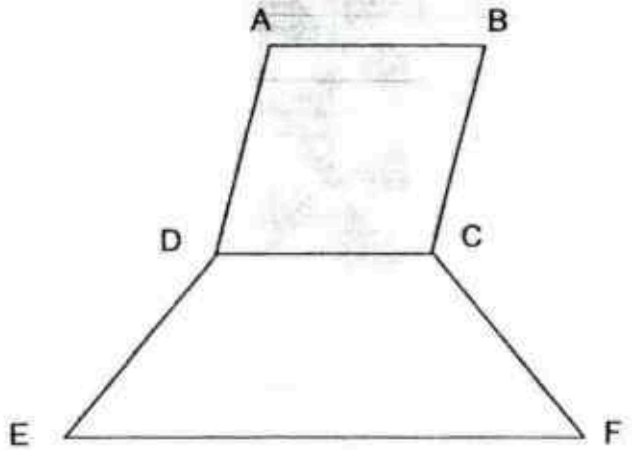


4)



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9. In the figure, ABCD is a rhombus and CDEF is a trapezium. Which of the following pairs of lines are parallel?



(1) AB and ED

(2) AB and CF

(3) CD and DE

(4) AB and EF

10. There are 60 cookies in a box. 28 of them have chocolate chips while the rest have macadamia nuts. What is the ratio of the number of chocolate chips cookies to the number of macadamia nuts cookies in the box?

(1) 7 : 8

(2) 7 : 15

(3) 8 : 7

(4) 8 : 15

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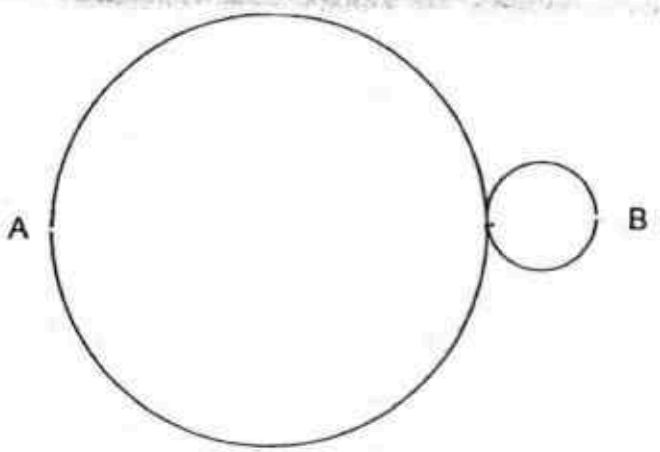
11. In the figure below, the radius of circle A is equal to 2 times the diameter of circle B. What is the ratio of the area of circle A to circle B?

(1) 2 : 1

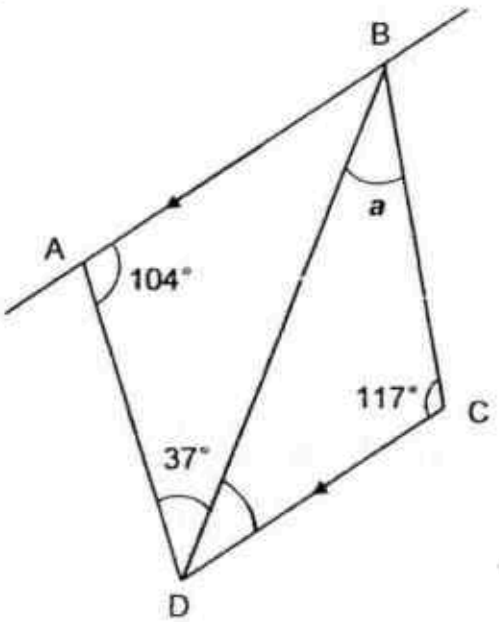
(2) 4 : 1

(3) 8 : 1

(4) 16 : 1



12. In the figure below, ABCD is a trapezium. Find ∠a



(1) 24°

(2) 39°

(3) 50°

(4) 63°

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13. Meiling bought 17 cupcakes. She gave the cashier $50 and received $16r back as change. How much is each cupcake?

(1) $2

(2) $2r

(3) $(50 – 16r)

(4) $\left(\frac{50-16r}{17}\right)$

14. In a school concert band, 30% of the members are boys. There are 20 more girls than boys. How many members are there altogether?

(1) 35

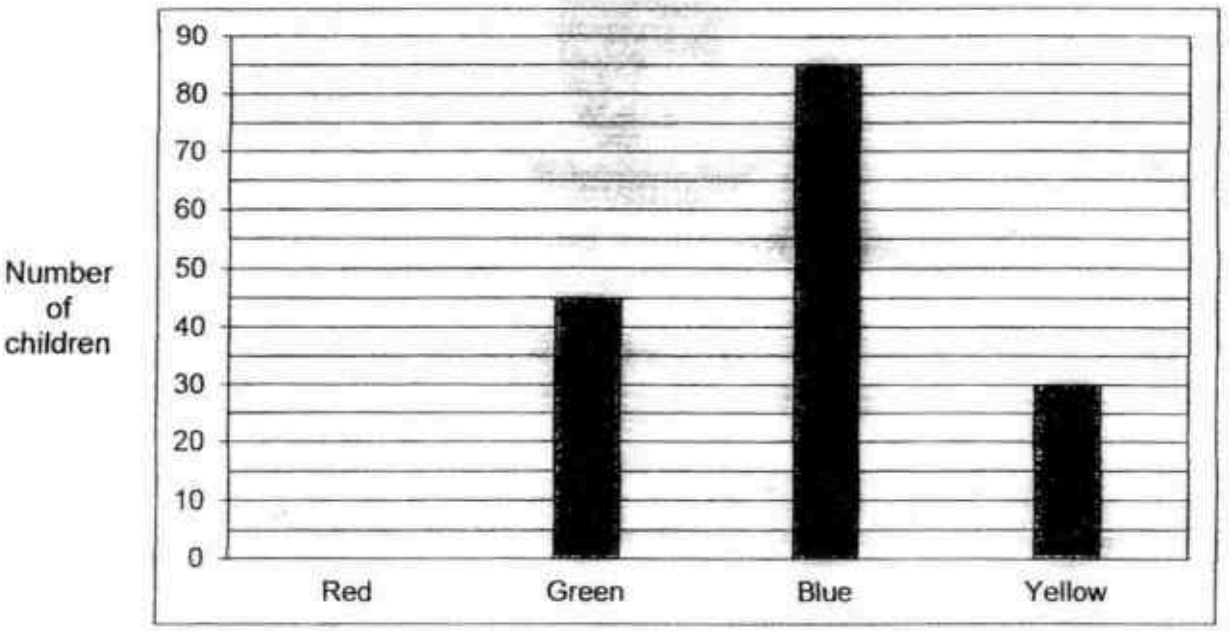
(2) 50

(3) 75

(4) 100

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15. The graph shows the favourite colours of a group of 200 children. The bar that shows the number of children who chose red has not been drawn. What percentage of the children chose red as their favourite colour?



(1) 20%

(2) 40%

(3) 60%

(4) 80%

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Anglo-Chinese School (Junior)

SEMESTRAL ASSESSMENT 1 (2015)
PRIMARY 6

MATHEMATICS

PAPER 1
Booklet B

Wednesday **6 May 2015** **50 min**

INSTRUCTIONS TO PUPILS

DO NOT TURN OVER THE PAGES UNTIL YOU ARE TOLD TO DO SO

Follow all instructions carefully.

There are 15 questions in this booklet.

Answer ALL questions.

You are <u>not</u> allowed to use a calculator.

Name: _____ ( )

Class: 6. ( )

Parent's Signature: _____

Booklet	Possible Marks	Marks Obtained
A	20	
B	20	
TOTAL	40	

This question paper consists of 8 printed pages. (Inclusive of cover page)

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Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

16. What is the value of $100 - 10 + (20 - 2 \times 4) \div 2$?

Ans: _____

17. Find the value of $142.6 - 0.99$

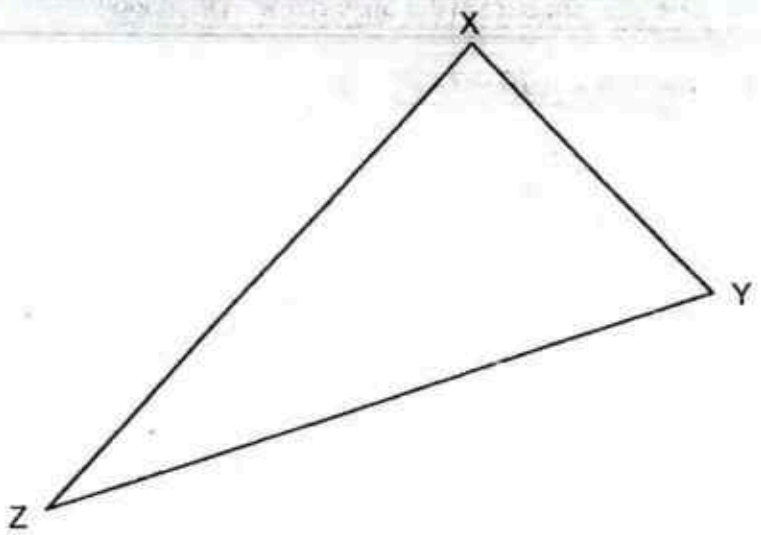
Ans: _____

18. How many sixths are there in $2\frac{2}{3}$?

Ans: _____

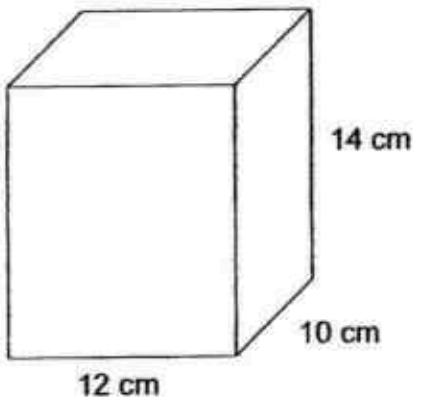
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19. Measure and write down the length YZ to the nearest 0.1 cm.



Ans: _____ cm

20. Find the volume of the cuboid.



Ans: _____ cm^3

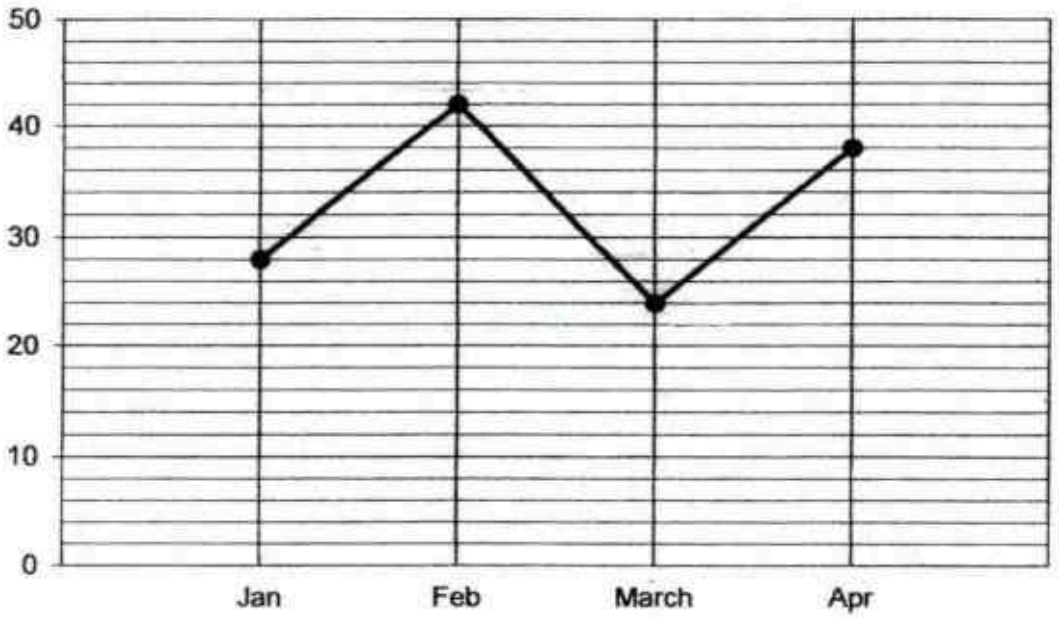
21. Express 1068 cm^3 in litres and millilitres.

Ans: _____ ℓ _____ $m\ell$

Sub-Total:

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22. The line graph shows the number of stamps Muthu collect from January to April.



What is the average number of stamps Muthu collects per month?

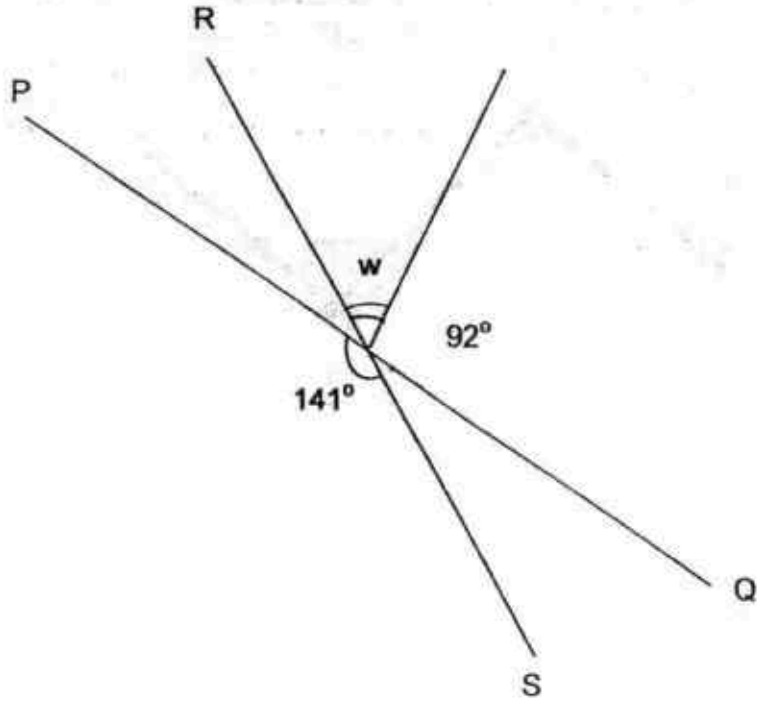
Ans: _____

23. $\frac{6}{10}$ of John's money is equal to $\frac{9}{10}$ of Gregory's money. What is the ratio of John's money to Gregory's money? Give your answer in the simplest form.

Ans: _____

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24. In the figure below, PQ and RS are straight lines. Find $\angle w$.



Ans: _____°

25. A bank pays 2% savings interest per year. Susan has savings of $30000 in the bank. Find the interest earned after a year.

Ans:$ _____

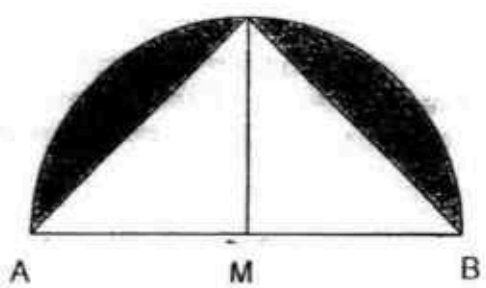
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Questions **26** to **30** carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

26. Mr. Lim bought a pizza. He took $\frac{1}{5}$ of the pizza and Mrs. Lim took $\frac{3}{8}$ of the remainder. The rest of the pizza was shared equally among 3 children. What fraction of the whole pizza did each child get?

Ans: _____

27. The diameter of the semicircle is 14 cm. M is the midpoint of line AB. Find the area of the shaded parts. (Take $\pi = \frac{22}{7}$)

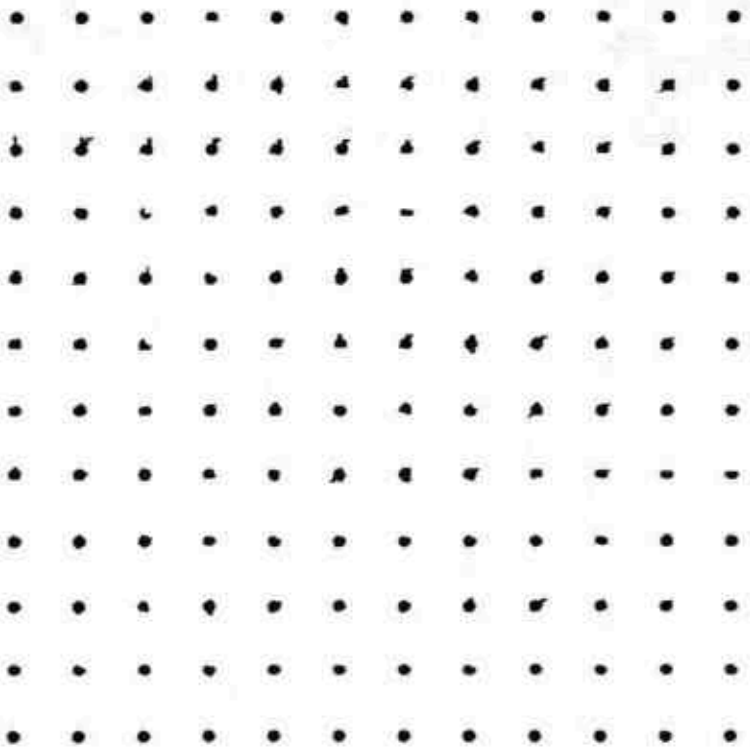


Ans: _____ cm^2

Sub-Total:

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28. The pattern in the box shows part of a tessellation. Extend the tessellation by drawing four more unit shapes in the space provided in the box.



29. In March, William saved $60 of his pocket money and spent the rest. In April, he saved 25% less and his spending increased by 10%. Given that he had the same amount of pocket money each month, how much was William's pocket money?

Ans: $_____

Sub-Total:

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30. The total weight of 60 similar vacuum cleaners is y kg. Mr Rajah sold 15 of these vacuum cleaners. What is the total weight of the vacuum cleaners which were not sold? Give your answer in terms of y.

Ans: _____

~ End of Paper ~

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Anglo-Chinese School (Junior)

SEMESTRAL ASSESSMENT 1 (2015)
PRIMARY 6

MATHEMATICS

PAPER 2

Wednesday **6 May 2015** **1 hr 40 min**

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Follow all instructions carefully.

There are 18 questions in this booklet.

Answer ALL questions.

You are allowed to use a calculator.

Name: _____ ( )

Class: 6. ( )

Parent's Signature: _____

Paper	Possible Marks	Marks Obtained
1	40	
2	60	
TOTAL	100	

This question paper consists of 16 printed pages. (Inclusive of cover page)

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Questions **1** to **5** carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

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1. The airmail rate to Australia is shown below.

Mass of letter	Australia
First 20g	$1.10
Every additional 10g or part thereof	$0.35

David sent a letter weighing 32g to Australia by airmail. How much did he pay?

Ans: $_____

2. Andy has a number of $10, $5 and $2 notes in the ratio 1: 2: 3. The total value of all the dollar notes is $390. How many $10 notes does Andy have?

Ans: _____

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3. Sandy packed 249 pencils into three boxes label A, B and C. There are 8 more pencils in Box A that in Box B. There are 13 more pencils in Box A than in Box C How many pencils were there in Box A?

Ans: _____

4. Daniel had $132 more than Ethan. Daniel gives $\frac{1}{10}$ of his money to Ethan. In the end, Daniel had 3 times as much money as Ethan. How much money did Daniel have at first?

Ans: $_____

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5. The mass of a box with 30 identical books was 19.85 kg. When some books were removed, the mass of the box with the remaining 18 books was 12.41 kg. What was the mass of each book? Give your answer in kilograms.

Ans: _____kg

Sub-Total:

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For questions **6** to **18**, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. **(50 marks)**

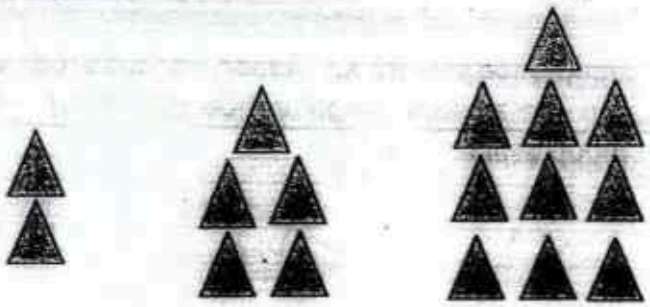
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6. The average weight of a group of boys is 45 kg. When one more boy who weighs 85 kg joins the group, the average weight will become 50 kg. Find the number of boys in the group at first.

Ans: _____ [3]

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7. Mary used triangles to form some patterns. The first three patterns are shown below.



1st Pattern 2nd Pattern 3rd Pattern

a) How many triangles are there in the 5th pattern?

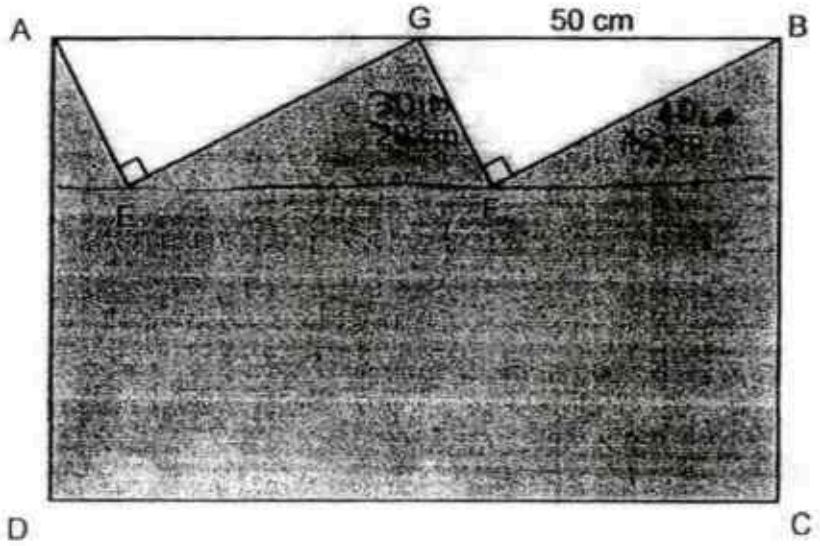
b) Which pattern is made of 145 triangles?

Ans: a) _____ [1]

b) _____ [2]

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8. The figure below is made up of rectangle ABCD and 2 identical right-angled triangles, AEG and GFB, with sides measuring 20 cm, 42 cm and 50 cm The perimeter of the shaded part is 354 cm. Find the area of the shaded part.



Ans: _____ [3]

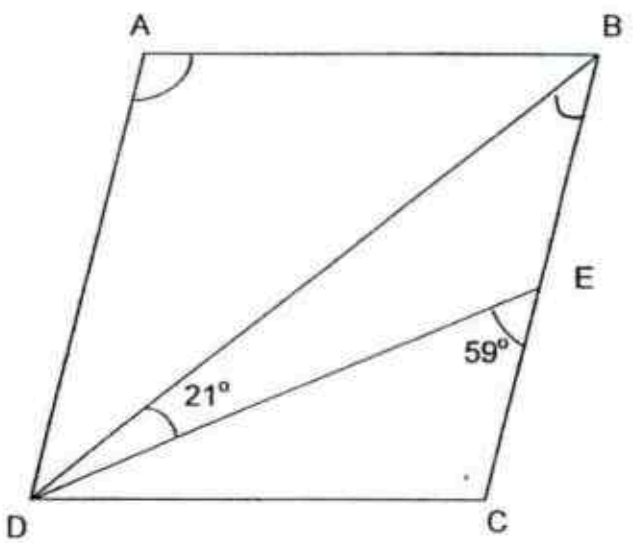
Sub-Total

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9. 2 identical cups and 6 identical plates cost $30. Each plate cost $3 more than a cup. How much does a cup cost?

Ans: _____ [3]

10. In the figure below, ABCD is a rhombus. $\angle BDE = 21°$ and $\angle DEC = 59°$. Find $\angle DAB$.



Ans: _____ [3]

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11. Henry spent $\frac{1}{5}$ of his salary and an additional \$500 of his salary on a PS4 console. He then spent $\frac{3}{4}$ of his remaining money and an additional \$50 of his salary on 8 PS4 game discs. In the end, he had \$10 left.

a) How much did the 8 PS4 game discs cost?

b) How much was Henry's salary?

Ans: a) _____ [2]

b) _____ [2]

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12. Alan had $7880. He bought 8 wallets with $176. He used $\frac{2}{3}$ of his remaining money to pay a total of 142 watches and bags. Each watch cost $40 and each bag cost $32.

a) How much did he pay for all the watches and bags?

b) How many watches did he buy?

Ans: a)_____ [1]

b) _____ [3]

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13. Alan and Gabriel started driving along a 30 km road from Tampines to Jurong at the same time. Alan drove at an average speed of 75 km/h and he arrived at Jurong 12 minutes earlier than Gabriel. Gabriel did not change his speed throughout the trip.

a) How long did Alan take to travel from Tampines to Jurong?

b) How far had Gabriel travelled when Alan reached Jurong ?

Ans: a) _____ [1]

b) _____ [3]

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14. Mr. Lim bought a television for $1968 after a discount of 20%

a) What was the price of the television before discount?

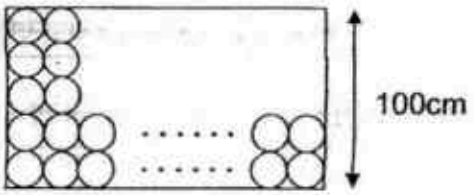
b) Mr. Lim also bought a laptop. The total discount for the television and laptop was $978. Given that he paid $864 for the laptop, what was the percentage discount given for the laptop?

Ans: a) _____ [1]

b) _____ [3]

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15. Aunty Jane has a rectangular table. The table top is decorated using 40 circular plastic discs of diameter 20 cm, following the pattern shown below. Each piece of circular plastic disc is in contact with those next to it.



(a) What is the area of the table top?

(b) What is the area of the table top not covered by the circular plastic discs?

Take π=3.14.

Ans: a) _____ [3]

b) _____ [2]

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16. Alice and Fatimah were each given a roll of wire of the same length to make some identical stars. The same length of wire was used to make for each star. Alice made 20 identical stars and had 1.4 m of wire left. Fatimah made 8 identical stars and had 3.56 m of wire left.

a) What was the length of the wire needed to make each identical star?

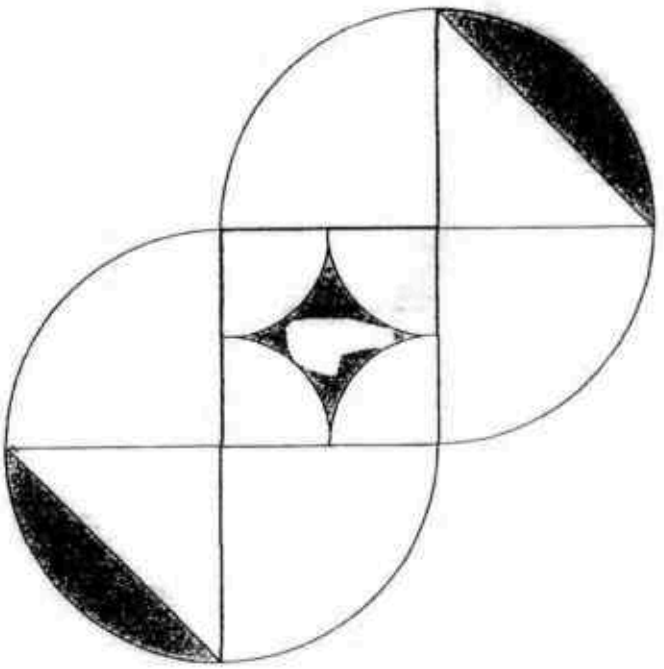
b) With the remaining wire from both girls, how many more such identical stars can be made at most?

Ans: a) _____ [2]

b) _____ .[3]

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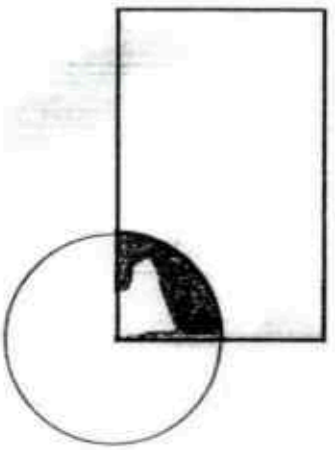
17. The figure below is made up of 6 bigger quadrants, 4 smaller quadrants and a square. The radius of the bigger quadrant is 7cm.
Find the area of the shaded parts.
(Take $\pi = \frac{22}{7}$)



Ans: _____ [4]

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18. The figure is made up of a rectangle and a circle. The ratio of the area of the circle to the area of the rectangle is 2 : 5. A shaded area of 20 cm^2 as shown below is cut out. The ratio of the area of the unshaded part of the circle to the unshaded part of the rectangle is now 1 : 3.



a) What is the ratio of the shaded area to the area of the whole figure?

b) What is the area of the circle before it is being cut out?

Ans: (a) _____ [3]

(b) _____ [2]

~ End of Paper ~

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EXAM PAPER 2015
LEVEL : PRIMARY 6
SCHOOL : ANGLO – CHINESE SCHOOL (JUNIOR)
SUBJECT : MATHS
TERM : SA1

PAPER ONE – BOOKLET A

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
1	**3**	**4**	**2**	**2**	**2**	**3**	**2**	**4**	**1**
Q11	Q12	Q13	Q14	Q15					
4	**1**	**4**	**2**	**1**					

PAPER ONE – BOOKLET B

Q16.
$100 - 10 + (20-2 \times 4) \div 2 = 100 - 10 = (20-8) \div 2$
$= 100 - 10 + 12 \div 2$
$= 100 - 10 + 6$
$= 90 + 6$
$= 96$
ANS : 96

Q17. 142.60
− 0.99
141.61
ANS: 141.61

Q18. $2\frac{2}{3} = 2\frac{4}{6}$
$2 \times 6 = 12$
$12 + 4 = 16$
ANS : 16 sixths

Q19. ANS : 9.6CM

Q20. $12 \times 10 = 120$, $120 \times 14 = 480 + 120 = 1680$. ANS : 1680 CM^3

Q21. $1068\ cm^3 = 1068ml = 1.068 = 1\ \ell = 1\ \ell\ 68ml$. ANS: $1\ \ell$ 68ml

Q22. $28 + 42 = 70$
$24 + 38 = 62$
$62 + 70 = 132$
$132 \div 4 = 33$
ANS: 33 stamps

Q23. $\frac{6}{10} = \frac{18}{30}$
$\frac{9}{10} = \frac{18}{20}$

J : G
30 : 20
3 : 2
ANS : 3 : 2

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Q24. $141 - 92 = 49$ ANS : 49°

Q25. $30,000 \div 100 = 300$
$300 \times 2 = 600$ ANS: 600

Q26.
$\frac{5}{5} - \frac{1}{5} = \frac{4}{5} = \frac{8}{10}$ $\frac{8}{8} - \frac{3}{8} = \frac{5}{8}$ $\frac{8}{10} \times \frac{5}{8} = \frac{5}{10} = \frac{1}{2}$

$\frac{1}{2} \div 3 = \frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$ ANS: ⅙ of the whole pizza.

Q27.
$14 \div 2 = 7$
$7 \times 7 = 49$
$\frac{1}{2} \times 7 \times 7 \times {}^{22}/_{7} = 77$
$77 - 49 = 28$ ANS : 28 cm^2

PAPER TWO

Q1.
$32-20 = 12$
$12 \div 10 = 1R2$ $1R2 \approx 2$
$0.35 \times 2 = 0.70$
$0.70 + 1.10 = 1.80$ ANS: $1.80

Q2.
$10 + 10 + 6 = 26$ $390 \div 26 = 15$ ANS : 15 ten dollars notes

Q3.
$13 - 8 = 5$
$5 \times 2 = 10$
$10 + 8 = 18$
$249 - 18 = 231$
$231 \div 3 = 77$
$77 + 5 = 8 = 90$ ANS : 90 pencils

Q4. $132 \div 10 = 13.20$
$(10u + 132) - (1u + 13.20) = (9u + 118.80)$
$10u + 1u + 13.20 = (11u + 13.20)$
$(9u \times 118.80) \div 3 = (3u + 39.60)$
$(3u + 39.60) = (11u + 13.20)$
$11 - 3 = 8$
$39.60 - 13.20 = 26.40$
$26.40 \div 8 = 3.30$
$3.30 \times 10 = 33$
$132 + 33 = 165$ ANS : $165

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Q5.
19.85 - 12.41 = 7.44
30 – 18 = 12
7.44 ÷ 12 = 0.62 ANS : 0.62kg

Q6. 45 X 5 = 225 225 + 85 = 310
310 ÷ 50 = 6R10

45 x 6 = 270 270 + 85 = 355
355 ÷ 50 = 7R5

45 x 7 = 315 315 + 85 = 400
400 ÷ 50 = 8 ANS : There were 7 boys at first

Q7a. 10 + 7 + 9 = 26 There are 26 triangles.

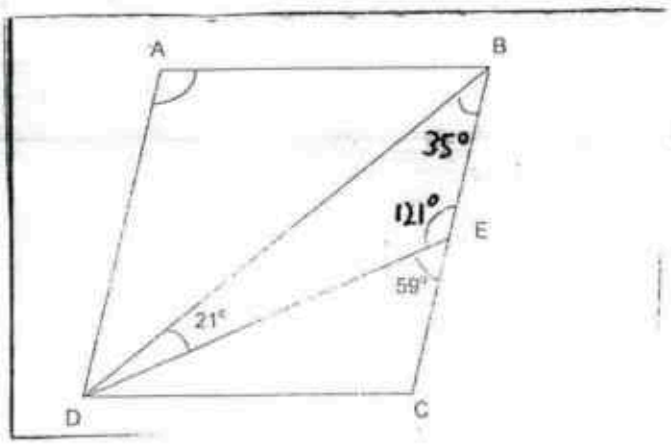
Q7b. 26 + 11 + 13 + 15 + 17 + 19 + 21 + 23 = 145
5 + 7 = 12. It is the 12th pattern. ANS: a) 26 triangles
b) 12th pattern

Q8.
354 – 30 – 40 – 30 – 40 = 214
214 – 100 = 114
114 ÷ 2 = 57
57 x 100 = 5700
40 x 30 = 600
600 x 2 = 1200
5700 – 1200 = 4500 ANS : 4500 cm^2

Q9. 6 x 3 = 18 30 – 18 = 12
2 + 6 = 8 12 ÷ 8 = 1.50
It costs $1.50. ANS : $1.50

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Q10. SEE PICTURE



180 – 59 = 121 ,
121 + 21 = 142,
180 – 142 = 38,
38 X 2 = 76 ,
180- 76 = 104 ANS : 104°

Q11a. 50 + 10 = 60, 60 x 3 = 180, 180 + 50 = 230 , They cost $230.
Q11b. 60 x 4 = 240, 240 + 500 = 740 , 740 ÷ 4 = 185 , 185 x 5 = 925 It was $925.
ANS: a) $230 b) $925

Q12a. 7880 – 176 = 7704 , 7704 x ⅔ = 5136 , He paid $5,136

Q12b. 71 x 40 = = 2840 2840 + 2272 = 5112
71 x 32 = 2272
72 x 40 = 2880
70 x 32 = 2240 2240 + 2880 = 5120
74 x 40 = 2960
68 x 32 = 2176 2960 + 2176 = 5136 He bought 74 watches.
ANS a) $5136 b) 74 watches

Q13a. $\frac{30}{75} = \frac{2}{5}$ $60 \times \frac{2}{5} = 24$ It took him 24 minntes.

Q13b. 24 + 12 = 36.. 30km ÷ 36min = $\frac{5}{6}$ km/min. $\frac{5}{6} \times 60 = 50$
$\frac{24}{60} = \frac{2}{5}$ $\frac{2}{5} \times 50 = 20$ He had travelled 20km. Ans : a) 24 minutes b) 20km

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Q14a. 100 – 20 = 80 , 1968 ÷ 80 = 24.60 , 24.60 x 100 = 2460 . It was $2460.

Q14b) 24.60 x 20 = 492, 978 – 492 = 486

486 + 864 = 1350 $\frac{486}{1350} = \frac{9}{25} = \frac{36}{100} = 36\%$ It was a 36% discount.

ANS : a) $2460 b) 36%

Q15a. 40 – 6 = 34, 34 ÷ 2 = 17, 17 x 20 = 340 , 340 x 100 = 34,000. It is 34,000cm²

Q15b. 20 ÷ 2 = 10 , 10 x 10 x 3.14 = 314 , 314 x 40 = 12,560

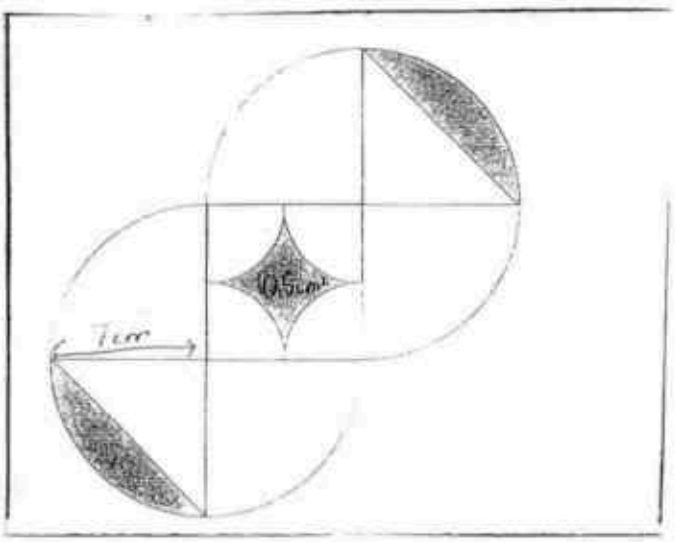
34,000 - 12,560 = 21,440, It is 21,440cm². ANS: a) 34,000cm² b) 21,440cm²

Q16a. 3.56 – 1.4 = 2.16 , 20-8 = 12 , 2.16 ÷ 12 = 0.18 . It is 0.18m.

Q16b. 1.4 + 3.56 = 4.96, 4.96 ÷ 0.18 ≈ 27. 27 more stars can be made at most.

ANS : a) 0.18m b) 27 more stars

Q17. SEE PICTURE



7 ÷ 2 = 3.5

3.5 x 3.5 x $\frac{22}{7}$ = 38.5

7 x 7 = 44

49 – 38.5 = 10.5

$\frac{1}{2}$ x 7 x 7 x $\frac{22}{7}$ = 77

77 – 49 = 28

28 + 10.5 = 38.5 It is 38.5cm² ANS : 38.5 cm²

Q18a. USC : OSR C : R 4 – 3 = 1

1 : 3 2 : 5 10 – 9 = 1

3 : 9 4 : 10 3 + 10 = 13 It is 1 : 13

Q18b. 20 x 4 = 80 It is 80cm² ANS : a) 1:13 b) 80cm²

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Name : _____ ( )

Class : Primary 6 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

Primary 6 Mathematics

2015 Semestral Assessment One

Paper 1

Booklet A

~~13~~ 12 May 2015

15 questions
20 marks

Total Time for Booklets A and B : 50 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
The use of calculators is NOT allowed.

This booklet consists of 8 printed pages including the cover page.

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Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3, or 4) on the Optical Answer Sheet.

(20 marks)

---

1. What is 108 716 in words?

(1) One hundred and eighty thousand, seven hundred and six

(2) One hundred and eighty thousand, seven hundred and sixteen

(3) One hundred and eight thousand, seven hundred and sixteen

(4) One hundred and eight thousand, seven hundred and sixty

2. What is 3050 + 500?

(1) 0.061

(2) 0.61

(3) 6.1

(4) 61.0

3. Which of the following ratios is in the simplest form?

(1) 6 : 18 : 14

(2) 15 : 60 : 80

(3) 28 : 49 : 35

(4) 36 : 40 : 65

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4. What is $8\ell\ 3\ m\ell$ in ℓ?

(1) $8.300\ \ell$

(2) $8.003\ \ell$

(3) $0.830\ \ell$

(4) $0.803\ \ell$

5. $\frac{4}{7}$ of Aiken's pocket money is $\frac{1}{2}$ of Bose's pocket money. What is the ratio of Aiken's pocket money to Bose's pocket money?

(1) 7 : 8

(2) 8 : 7

(3) 7 : 2

(4) 2 : 7

3. Express 0.2% as a fraction.

(1) $\frac{1}{5}$

(2) $\frac{1}{50}$

(3) $\frac{1}{500}$

(4) $\frac{1}{5000}$

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7. Clinton and Duncan had a total of 45 assessment books. Clinton had 80% of what Duncan had. How many assessment books did Duncan have?

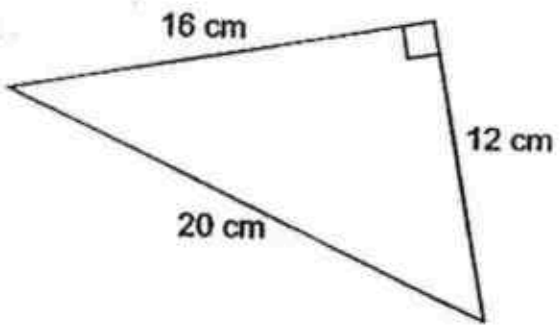
(1) 36

(2) 25

(3) 20

(4) 9

8. What is the area of the triangle shown below?



(1) 96 cm^2

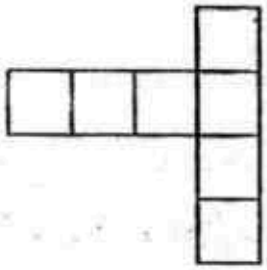
(2) 120 cm^2

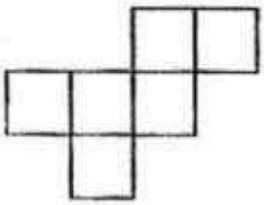
(3) 160 cm^2

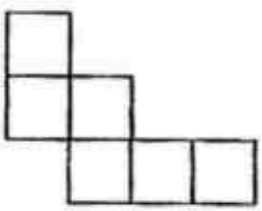
(4) 192 cm^2

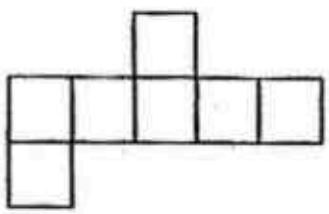
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9. Which one of the following is the net of a cube?

(1) 

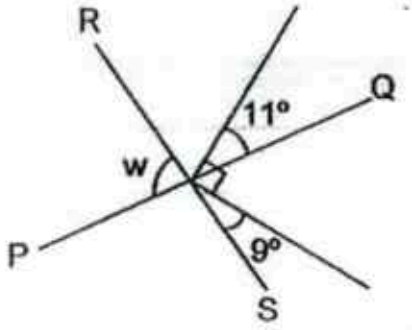
(2) 

(3) 

(4) 

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10. The figure below is not drawn to scale. PQ and RS are straight lines. Find $\angle w$.



(1) 79°

(2) 81°

(3) 88°

(4) 99°

11. Elera wanted to work out the answer of 9908 - 117 using the calculator. She accidentally keyed in 9980 - 117. Without clearing the answer that was displayed on the calculator, what did Elera need to key in to obtain the correct answer?

(1) Subtract 72

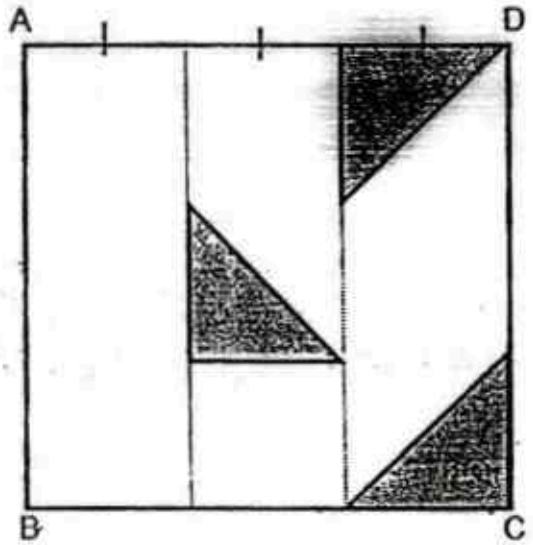
(2) Add 72

(3) Subtract 720

(4) Add 720

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12. ABCD is a square. The triangles in the square are isosceles triangles of the same size. What percentage of the square is shaded?



(1) $16\frac{2}{3}\%$

(2) $33\frac{1}{3}\%$

(3) $66\frac{2}{3}\%$

(4) $83\frac{1}{3}\%$

13. Flex had 24 keychains. He gave some keychains to his colleague and 6 keychains to his cousin. In the end, he had $\frac{1}{6}$ of his original number of keychains left. How many keychains did he give his colleague?

(1) 20

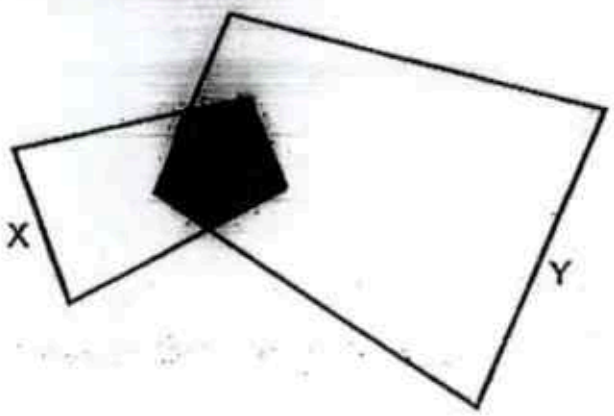
(2) 15

(3) 14

(4) 9

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14. The area of Y is 3 times of the area of X. The area of the shaded part of X is $\frac{1}{3}$ of the area of the unshaded part of X. What is the ratio of the shaded part of Y to the unshaded area of Y?



(1) 1 : 11

(2) 1 : 9

(3) 11 : 12

(4) 11 : 1

15. The sum of 20 numbers is 9. If each number were to be increased by 0.03, what would be the sum of the 20 numbers in the end?

(1) 9.03

(2) 9.06

(3) 9.27

(4) 9.60

** END OF BOOKLET A**

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Name : _____ ( )

Class : Primary 6 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

Primary 6 Mathematics

2015 Semestral Assessment One

Paper 1

Booklet B

12 May 2015

15 questions
20 marks

TOTAL TIME FOR BOOKLET A & B : 50 MINUTES

INSTRUCTIONS TO CANDIDATES
DO NOT TURN OVER THIS PAGE UNTIL YOU ARE TOLD TO DO SO.
FOLLOW ALL INSTRUCTIONS CAREFULLY.
ANSWER ALL QUESTIONS.
THE USE OF CALCULATORS IS NOT ALLOWED.

This booklet consists of 8 printed pages including the cover page.

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Questions **16** to **25** carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space.

16. What number is 53 000 when rounded off to the nearest thousand? Write down the greatest possible number.

Ans : _____

17. Express 13 out of 10 as a percentage.

Ans : _____ %

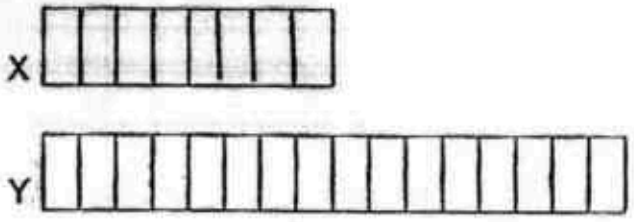
18. Find the value of $4 + d + 7$ when $d = 5$. Give your answer as a mixed number.

Ans : _____

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19. Study the model below. What is the ratio of Y to the total of X and Y? Give your answer in the simplest form.

Do not write in this space.



Ans : _____

20. What is the missing number in the box?

$135 = 0.135 \times \boxed{?}$

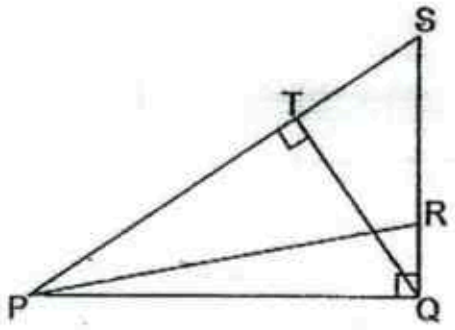
Ans : _____

21. $\frac{7}{8}$ kg of chickpeas was divided into 5 packets of the same size. What was the mass of each packet in kg?

Ans : _____ kg

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22. The figure below shows triangle PQS. SR is the base of triangle PRS. Write down the height of triangle PRS.



Do not write in this space.

Ans : _____

23. The height of a shoe rack is 1.08 m. The height of a ladder is 40 cm more than the height of the shoe rack ,What is the height of the ladder? Give your answer as a decimal.

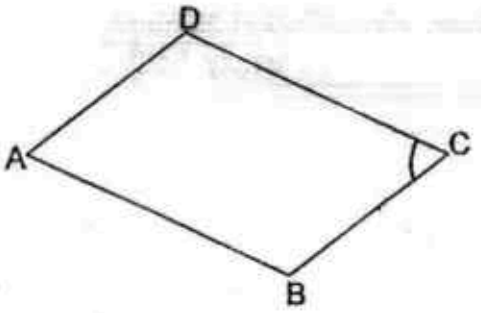
Ans : _____ m

24. $\frac{1}{4}$ of the diners at a buffet were children. The rest were adults. $\frac{3}{7}$ of the adult diners were women. What fraction of all the diners were women?

Ans : _____

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25. The figure below shows a parallelogram ABCD.
Write down the angle that is equal to ∠DCB.



Ans : ∠_____

Do not write in this space.

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Questions 26 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space.

26. Last week, Zephy collected 10 empty bottles. This week, she collected 25 empty bottles. What was the percentage increase in the number of empty bottles collected?

Ans : _____%

27. Valen, Winsy and Xanthus shared some dice in the ratio 4 : 3 : 2. Valen gave all her dice equally to Winsy and Xanthus. In the end, Winsy had 95 dice. How many dice did Valen give Winsy and Xanthus altogether?

Ans : _____

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8. Saj spent 50 minutes on his project. He spent e minutes more than Thor. Thor spent 10 minutes less than Udell. How much time did Udell spend on his project? Leave your answer in minutes.

Do not write in this space.

Ans : _____ min

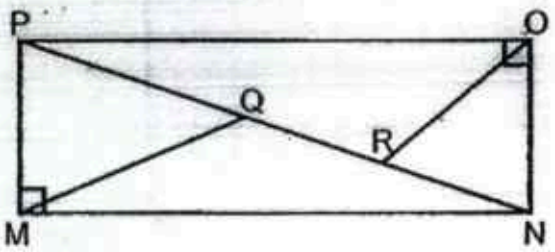
9. The total cost of 8 pumpkins is $38. The average cost of 2 of the pumpkins is $4. What is the average cost of the remaining pumpkins?

Ans : $ _____

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30. In the figure below, the ratio of the area of MPQ to the area of MQN is 5 : 9. The area of ORN is $\frac{1}{2}$ of the area of MPQ. What is the ratio of the area of MNOP to the area of ORN?

Do not write in this space



Ans : _____

END OF PAPER 1

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Name : _____ ( )

Class : Primary 6 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)



2015 Semestral Assessment One

Paper 2

12 May 2015

Paper 1	**40**
Paper 2	**60**
Total	**100**

TIME: 1 hour 40 minutes

INSTRUCTIONS TO CANDIDATES

DO NOT TURN OVER THIS PAGE UNTIL YOU ARE TOLD TO DO SO.
FOLLOW ALL INSTRUCTIONS CAREFULLY.
ANSWER ALL QUESTIONS.
THE USE OF AN APPROVED CALCULATOR IS EXPECTED, WHERE APPROPRIATE.

This booklet consists of 17 printed pages including the cover page.

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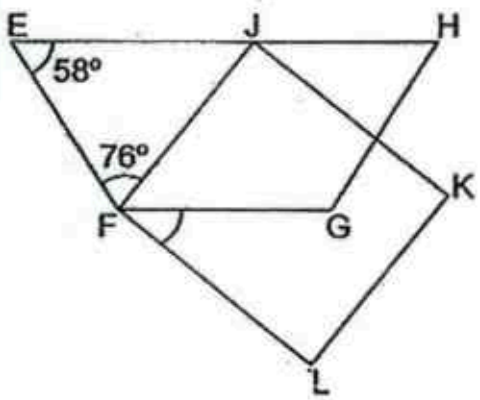
Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space.

1. Amery wanted to tie up some boxes. She used 40.5 cm of string for each box. She tied up 4 boxes and realised that she needed another 364.5 cm to tie the rest of the boxes. How many boxes did Amery have to tie altogether?

Ans : _____

2. The figure below, not drawn to scale, shows a trapezium EFGH and a rectangle FLKJ. Find ∠LFG.



Ans : _____ °

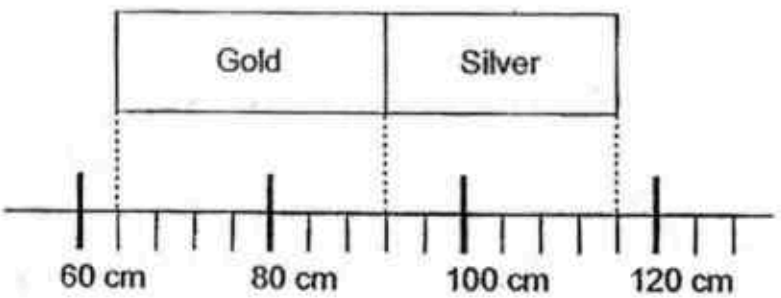
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3. Byron and Clint had an average savings of $685. Dillys had savings of $880. What is the average savings of Byron, Clint and Dillys?

Do not write in this space

Ans : $ _____

4. Eu Ya divided a vanguard sheet into two sections. She coloured the two sections using gold and silver paint.



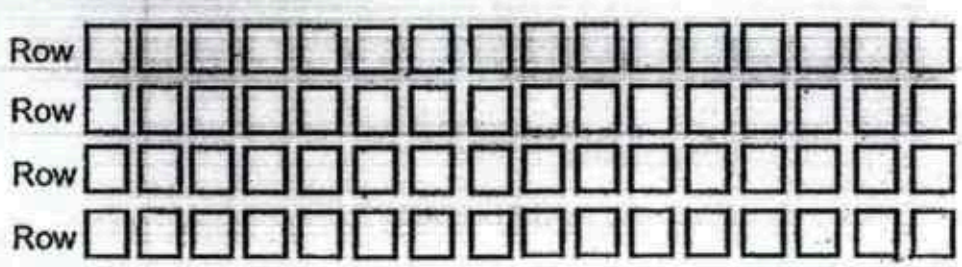
What is the ratio of the total length of the gold and silver section to the length of the gold section to the length of the silver section? Give your answer in the simplest form.

Ans : _____

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5. There are 64 chairs in a lecture theatre. A group of pupils are asked to arrange the 64 chairs in different ways. They can arrange the chairs into rows Every row must have the same number of chairs. **One way of arranging the chairs is shown below.**

Do not write in this space.



What is the total number of different ways, **including the one shown above,** that the 64 chairs can be arranged?

Ans : _____

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For questions 6 to 18; show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (50 marks)

Do not write in this space.

6. The table below shows the charges for surfing the internet in a cyber café.

Duration	Charges
1st hour	$4.00
For every additional half an hour	$1.25

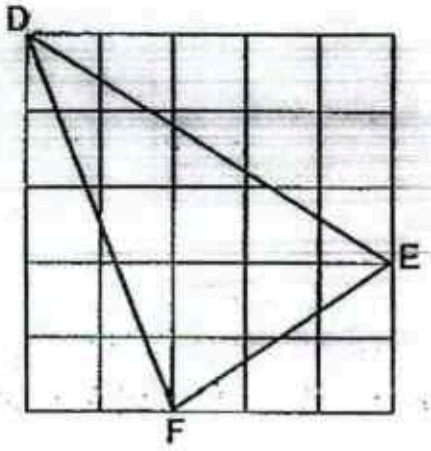
Flygera paid $7.75 for surfing the internet in the café. What was the maximum number of hours she spent surfing the internet?

Ans _____ [3 m]

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7. Triangle DEF is drawn on a 1-cm grid. What is the area of Triangle DEF?

Do not write in this space



Ans : _____ [3 m]

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8. There were 1456 English books in a library. This was 12% more than the number of Chinese books. How many more English books than Chinese books were there?

Do not write in this space

Ans : _____ [3 m]

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9. The total cost of 10 similar mouse pads was $5.80 more than the total cost of 6 similar USB flash drives. Each USB flash drive cost $45.95. Graine bought 1 such mouse pad and paid $100. How much change did he receive?

Do not write in this spac

Ans : _____ [3 m]

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10. Hasia and Inka had an equal amount of money. Hasia received \$60 from her grandaunt and Inka spent \$332. Then Inka had $\frac{1}{9}$ of what Hasia had. How much in total did the two of them have in the end?

Do not write in this space.

Ans : _____ [3 m]

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11. Lusin had 400 purple, red and pink crystals. 60% of the crystals were purple. There were 4 times as many red crystals as pink crystals. Lusin bought some more pink crystals. Then the number of pink crystals increased to 36% of the total number of red and pink crystals. How many pink crystals did Lusin buy?

Do not write in this space.

Ans : _____ [4 m]

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12. A group of people participated in a quiz. $\frac{1}{7}$ of the women and $\frac{3}{4}$ of the men were eliminated from the quiz. A total of 84 women and men were eliminated. The number of women eliminated was the same as the number of men eliminated. How many women and men were not eliminated from the quiz?

Do not write in this space.

Ans : _____ [4 m]

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13. Study the advertisement below.

Do not write in this space.

Makan Deli Kitchen

Dining Vouchers For Sale!

For every 7 vouchers purchased, get a 15% discount on the 8th voucher.

Every dining voucher cost $20. Namie purchased 90 vouchers. How much did Namie pay altogether?

Ans : _____ [4 m]

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14. Kyrie used some of her bonus to donate to a hospice, an orphanage and an old folks' home. She donated 30% of her bonus to the hospice and 40% of the remaining bonus to the orphanage. She donated $1600 more to the old folks' home than to the orphanage. In the end, she had $2054 left. How much did Kyrie donate to the hospice, the orphanage and the old folks' home altogether?

Do not write in this space.

Ans : _____ [4 m]

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15. Baker Joon bought some flour. He packed all the flour equally into smaller packs of $\frac{2}{5}$ kg each. If he were to pack all the flour equally into packs of $1\frac{1}{5}$ kg each, he would have 250 fewer packs of flour. How much flour did Baker Joon buy altogether?

Do not write in this space.

Ans : _____ [4 m]

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16. Dane, Enzo and Fraser shared some game cards. Dane had $\frac{2}{5}$ of what Enzo had. Enzo had 6 times of what Fraser had. After Dane lost some of his game cards in school, he had $\frac{1}{7}$ of the total game cards that Enzo and Fraser had. The three boys had 280 game cards altogether in the end.

Do not write in this space.

(a) What was the ratio of Dane's share to Enzo's share to Fraser's share at first?

(b) How many game cards did Dane lose in school?

Ans : (a) _____ [2 m]

(b) _____ [3 m]

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17. Olwyn bought some peaches, lemons and avocadoes in the ratio 3 : 1 : 6. The prices of each type of fruit are shown in the table below.

Do not write in this space.

Fruit	Price per fruit
Peach	$2.50
Lemon	$0.50
Avocado	$3.00

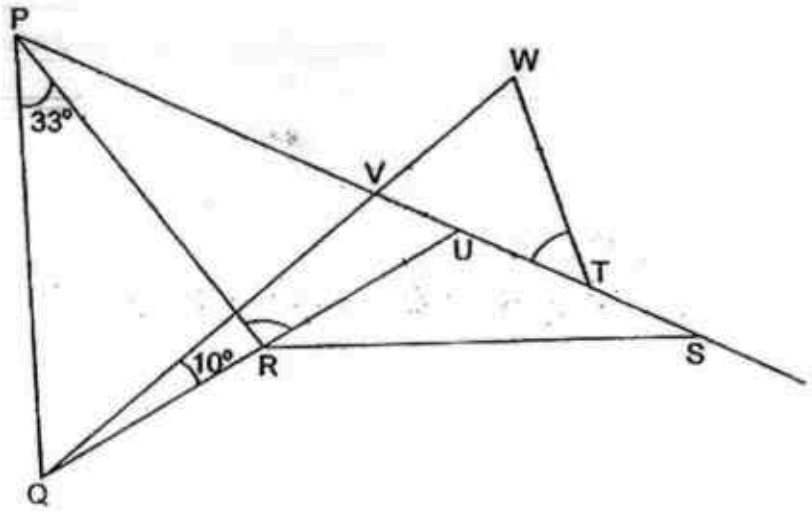
Olwyn spent $52 altogether. How many avocadoes did she buy?

Ans : _____ [5 m]

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18. The figure below is not drawn to scale. PQU is an equilateral triangle. SUVP and QVW are straight lines.

(a) Find ∠PRU.
(b) Find ∠VTW.



Do not write in this space.

Ans : (a) _____ [2 m]

(b) _____ [3 m]

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CHIJ ST NICHOLAS GIRLS' SCHOOL
PRIMARY 6 MATHEMATICS 2015
SEMESTRAL ASSESSMENT 1

1) 3	2) 3	3) 4	4) 2	5) 1	6) 3
7) 2	8) 1	9) 2	10) 3	11) 1	12) 1
13) 3	14) 1	15) 4			

16) 53499

17) 130%

18) 4/5/7

19) 2 : 3

20) 1000

21) 7/40 kg

22) PQ

23) 1.48 m

24) 3/7x3/4 = 9/28

25) Angle DAB

26) (25-10)/10X100% = 150%

27) 5u -- 95
4u -- 4/5x95 = 76

28) (60-e) min

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29) 4x2 = 8
38-8 = 30
30/(8-2) = $5

30) 5÷2 = 2.5
(5+9)x2 = 28
28 : 2.5 = 56 : 5

Paper 2

1) 40.5x4 = 162
162+364.5 = 526.5
526.5÷40.5 = 13 boxes

2) 180-58-76 = 46
90-46 = 44°

3) 685x2 = 1370
(1370+880)/3 = $750

4) Length of gold = 92-64 = 28 cm
Length of silver = 116-92 = 24 cm
28+24 : 28 : 24
Ans: 13 : 7 : 6

5) 1x64, 64x1
2x32, 32x2
4x16, 16x4
8x8
Ans: 7 ways

6) 7.75-4 = 3.75
3.75÷1.25 = 3
3x1/2 = 1.5
1.5+1 = 2.5 hours

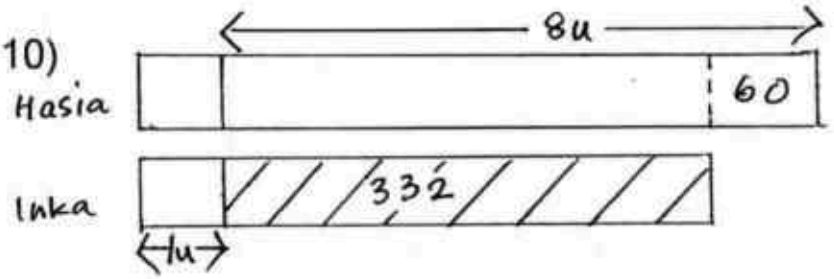
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7) 5x5-1/2x5x3-1/2x2x3-1/2x2x5 = 9.5 sq cm

8) 1456 ÷ (100+12) = 13
13x12 = 156 more English books than Chinese books

9) 6x$45.95 = $275.70
$275.70+$5.80 = $281.50
$281.50÷10 = $28.15
$100-$28.15 = $71.85

10)



8u -- $332+$60 = $$392
10u -- 10/8x$392 = $490

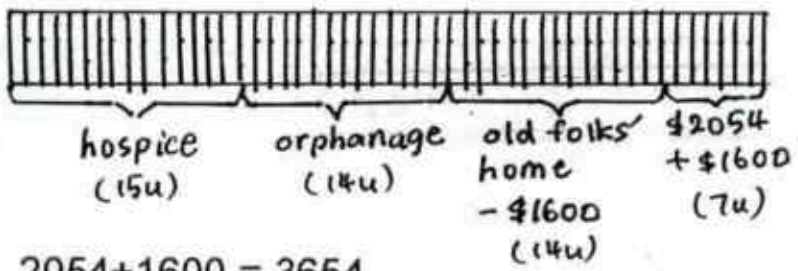
11) 400 ÷ (15+8+2) = 400÷25 = 16
16x8 = 128
128 ÷ (100-36) = 2
2x36 = 72
16x2 = 32
72-32 = 40 pink crystals

12) 1W+3M = 84
1W = 3M = 84÷2 = 42
6W = 6x42 = 252
1M = 42÷3 = 14
Ans: 252+14 = 266

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13) 90÷8 = 11 R2
11x7 = 77
77x20 = 1540
11x1 = 11
85/100x20 = 17
17x11 = 187
2x20 = 40
40+187+1540 = $1767

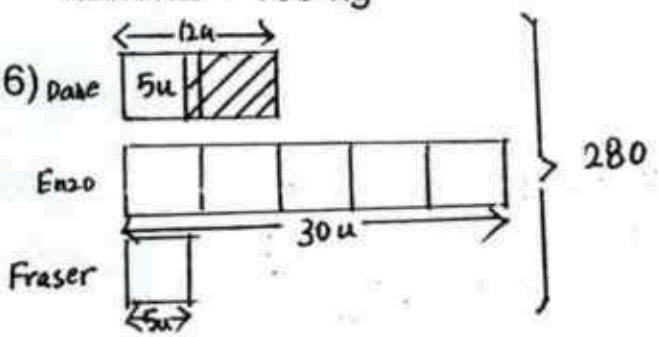
14)



2054+1600 = 3654
3654÷7x5 = 2610
2610x10 = 26100
26100-2054 = $24046

15) 1.2-0.4 = 0.8
1.2÷0.4 = 3
250x0.4 =100
100÷0.8 = 125
125x1.2 = 150 kg

16)



a) 12 : 30 : 5
b) 40u -- 280
7u -- 7/40x280 = 49 cards

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17) 3x2.5+1x0.5+6x3 = 26u
52÷26 = 2
2x6 = 12 avocadoes

18a) 180÷3 = 60°
60-33 = 27°
180-27-60 = 93°
b) 180-10-60 = 110°
180-110 = 70°
180-70-70 = 40°

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SINGAPORE CHINESE GIRLS' SCHOOL

FIRST SEMESTRAL ASSESSMENT 2015

PRIMARY 6

MATHEMATICS
PAPER 1

BOOKLET A

Name : _____( )

Class : Primary 6

		Marks attained	Max Mark
Paper 1	Booklet A		20
	Booklet B		20
Paper 2			60
Total Marks			100

Parent's Signature

15 Questions
20 Marks

Total Time for Booklets A and B: 50 min

INSTRUCTIONS TO CANDIDATES
Do not open this booklet until you are told to do so.
Follow all instructions carefully.
Answer all questions.
You are not allowed to use a calculator

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Booklet A

Questions **1** to **10** carry 1 mark each. Questions **11** to **15** carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet. **(20 marks)**

---

1 8 ten thousands, 9 hundreds and 2 ones is _____.

(1) 89 052

(2) 89 002

(3) 80 920

(4) 80 902

2 Which one of the following is the likely total mass of two apples?

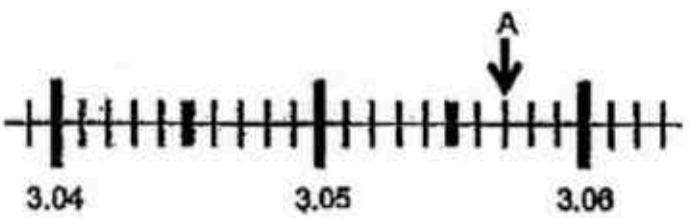
(1) 2.5 g

(2) 25 g

(3) 250 g

(4) 2500 g

3 In the number line below, what is the value of A?



(1) 3.7

(2) 3.57

(3) 3.07

(4) 3.057

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4 Evaluate $9 \div \frac{1}{3}$

(1) $\frac{9}{1} \times \frac{1}{3}$

(2) $\frac{9}{1} \times \frac{3}{1}$

(3) $\frac{1}{9} \times \frac{1}{3}$

(4) $\frac{1}{9} \times \frac{3}{1}$

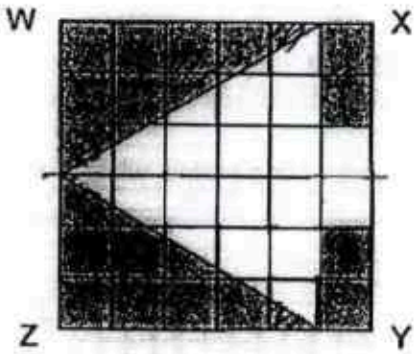
5 In the figure shown, WXYZ is made up of 36 squares. What fraction of WXYZ is shaded?

(1) $\frac{1}{2}$

(2) $\frac{5}{9}$

(3) $\frac{17}{36}$

(4) $\frac{19}{36}$



6 What is $\frac{1}{2}$% as a decimal ?

(1) 0.0005

(2) 0.005

(3) 0.05

(4) 0.5

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7 What is the value of $1008 \div (8 + 4) \times 4$?

(1) 21

(2) 142

(3) 336

(4) 520

8 Simplify $11p + 34 + 5p - 9$

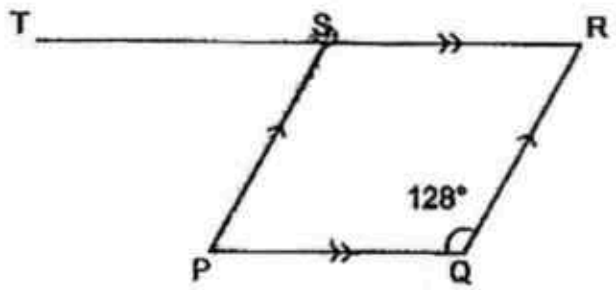
(1) $16p + 25$

(2) $6p - 43$

(3) $16p - 43$

(4) $2p + 39$

9 In the figure below, not drawn to scale, PQRS is a parallelogram and $\angle PQR = 128°$. Find $\angle TSP$.



(1) 38°

(2) 52°

(3) 62°

(4) 128°

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10 In a marathon, Vanessa ran up a building from Level 1 to Level 12 at a constant speed. She took 96 seconds to reach Level 12. If the distance between each floor is 6 m, find the average speed of Vanessa.

(1) $\frac{3}{4}$ m/s

(2) $\frac{11}{16}$ m/s

(3) $1\frac{1}{3}$ m/s

(4) $1\frac{5}{11}$ m/s

11 The total number of pupils in the Art Club is 80. There are 56 girls in the club, what is the ratio of the number of boys to the number of girls?

(1) 7 : 3

(2) 3 : 7

(3) 7 : 10

(4) 10 : 7

12 A tank was filled with 48 litres of water. Kimberly took 25% of the water to wash her car. She took $\frac{1}{6}$ of the remainder to wash the floor. What is the amount of water left in the tank?

(1) 6 ℓ

(2) 8 ℓ

(3) 12 ℓ

(4) 30 ℓ

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13 In a farm, 70% of the fruits were apples and the rest were mangoes. After selling 840 apples, there were an equal number of apples and mangoes left in the farm. How many fruits were there in the farm at first?

(1) 2100

(2) 2800

(3) 5600

(4) 12000

14 What is the 1010^{th} letter in the following series?

S I N G A P O R E S I N G A P O R E S I N G A P O R E

(1) E

(2) I

(3) N

(4) S

15 Janice and Marissa painted a room together. If they had painted the room alone, Janice will need 8 hours and Marissa will need 9 hours. If they worked together to paint the room for 4 hours, what fraction of the room was painted?

(1) $\frac{1}{17}$

(2) $\frac{4}{17}$

(3) $\frac{17}{72}$

(4) $\frac{17}{18}$

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SINGAPORE CHINESE GIRLS' SCHOOL

FIRST SEMESTRAL ASSESSMENT 2015

PRIMARY 6

MATHEMATICS
PAPER 1

BOOKLET B

Name : _____( )

Class : Primary 6

Paper 1	Mark attained	Max Mark
Booklet B		20

15 Questions
20 Marks

Total Time for Booklets A and B: 50 min

INSTRUCTIONS TO CANDIDATES
Do not open this booklet until you are told to do so.
Follow all instructions carefully.
Answer all questions.
You are not allowed to use a calculator

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Booklet B

Name:_____( ) **Class: P6**

Do not write in this column

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. **(10 marks)**

16 7 hundreds, 5 tenths and 50 hundredths is _____.

Ans: _____

17 How many $\frac{1}{12}$ are there in $\frac{2}{3}$?

Ans: _____

18 Use all the digits below to form the largest four-digit odd number.

0 1 4 7

Ans: _____

3

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19 Write down the letter(s) which has / have the dotted line as a line of symmetry?

Do not write in this column



Ans: _____

20 Express 6 hours as a percentage of a day.

Ans: _____ %

21 What is the value of $\frac{9b + 4 - 6b}{3}$ when $b = 3$.
(Express your answer in the simplest form.)

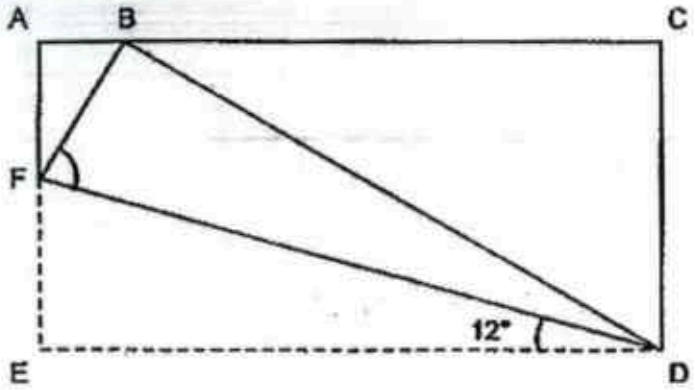
Ans: _____

3

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22 The figure below is not drawn to scale. ACDE is a rectangle folded along line FD. Find ∠BFD.

Do not write in this column



Ans: _____°

23 A truck travelled at 30 km/h. It completed its journey in $\frac{2}{3}$ h. How far did the ~~bus~~ truck travel?

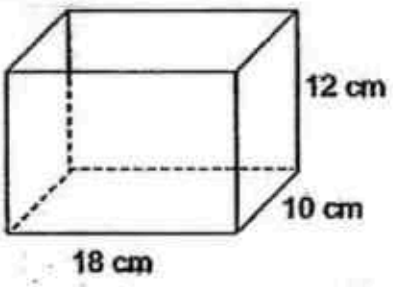
Ans: _____ km

2

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Do not write in this column

24 Raju poured 540 cm^3 of water into the tank below. Find the height of the water level in the tank.



Ans: _____ cm

---

25 There are $\frac{3}{7}$ as many girls as boys at a carnival. After 150 boys left the carnival and 150 girls joined the carnival, the ratio of girls to boys become 2 : 3 . How many children are there in the carnival at first?

Ans: _____

2

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Questions 26 to 30 carry 2 marks each. Show your working clearly in the space for each question and write your answers in the space provided.
For questions which require units, give your answers in the units stated.

(10 marks)

Do not write in this column

26 $\frac{2}{7}$ litre of syrup is used to make a large bottle of fruit punch. What is the greatest number of completely filled bottles of fruit punch you can make using 5 litres of syrup?

Ans: _____

27 In order to promote racial harmony within a block of flat, the government set up the ethnic ratio policy. For every 7 Chinese families, there must be at least 2 Malay families and 1 Indian family. What is the least number of Malay families if there are 272 families in a block of flats?

Ans: _____

28 Gabriel has 60 marbles. Daniel has g marbles fewer than Gabriel but thrice as many as Harry. Find the number of marbles Harry has.
(Leave your answer in terms of g.)

Ans: _____

6

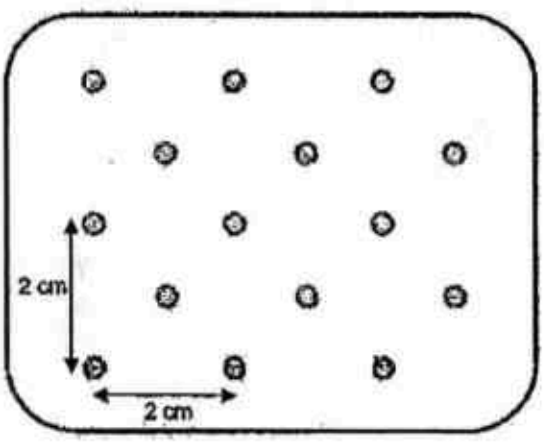
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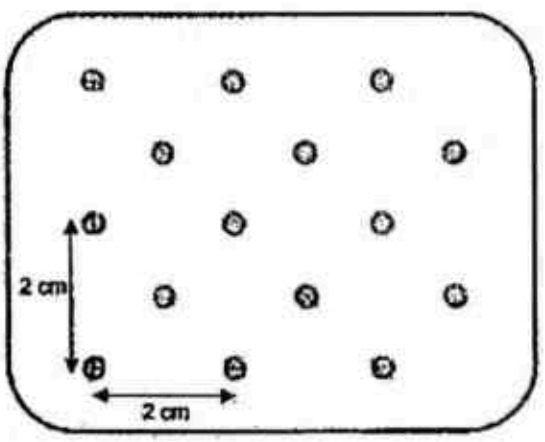
Do not write in this column

29 Mrs Lau had a ribbon $\frac{4}{5}$ m long. She used $\frac{1}{3}$ of it to tie a present and $\frac{2}{15}$ m to decorate a card. Find the length of the ribbon that was left.

Ans: _____ m

30 15 pegs are fixed on a rainbow loom board as shown below. The pegs are placed 2 cm apart from one another as shown below. Elastic bands can be placed on the pegs to form triangles. Draw a different type of 8 cm^2 isosceles triangle on each rainbow board.





4

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SINGAPORE CHINESE GIRLS' SCHOOL

FIRST SEMESTRAL ASSESSMENT 2015

PRIMARY 6

MATHEMATICS

PAPER 2

Name : _____( )

Class : Primary 6

	Mark	Max Mark
Paper 2		60

Parent's Signature

18 Questions
60 Marks

Total Time For Paper 2: 1 h 40 min

INSTRUCTIONS TO CANDIDATES
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Follow all instructions carefully.
Answer all questions.

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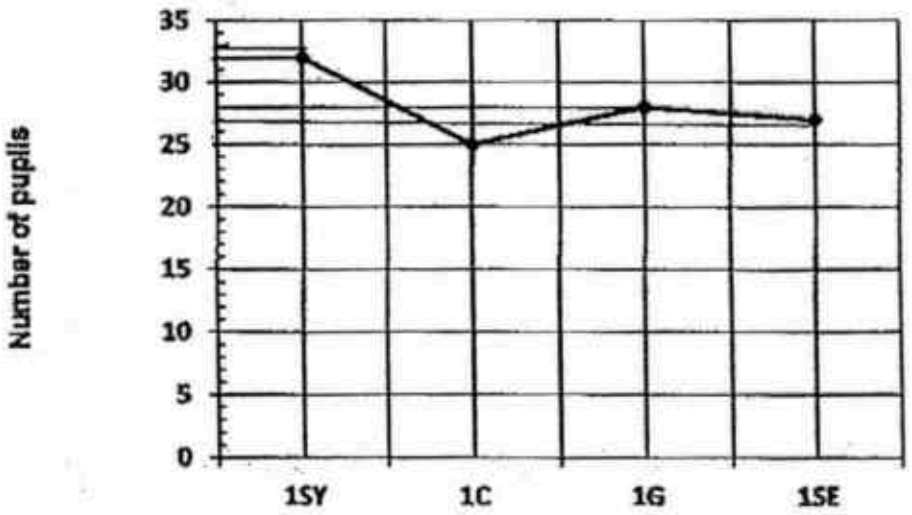
Questions 1 to 5 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the space provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this column

1 Stall P has 80% as many fruits as in Stall Q. Both stalls increase their total number of fruits by 25% each and the total number of fruits in both stalls become 2700. What is the number of fruits in Stall Q at first?

Ans: _____

2 The line graph below shows the number of pupils visiting River Safari from 4 classes. What percentage of the pupils who visited River Safari were pupils from 1G?



Ans: _____ %

4

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Do not write in this column

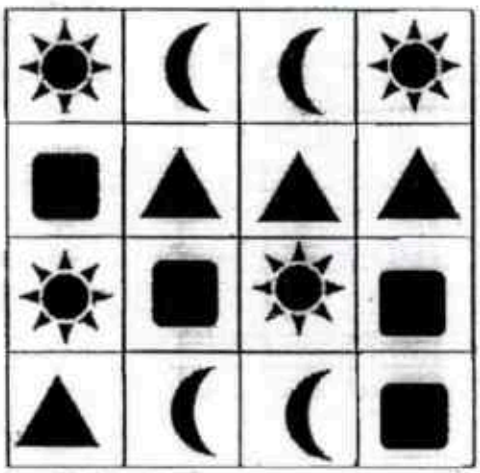
3 The table below shows the parking rates in a car park.

Parking Rates	
8.30 a.m. to 5.00 p.m.	$2.00 per hour or part thereof
After 5.00 p.m.	$0.50 per half hour or part thereof

How much would it cost to park a car from 4.30 p.m. to midnight?

Ans: $_____

4 The following puzzle is made up of 4 jigsaw pieces. Each jigsaw piece consists of 4 different symbols. Outline the 4 jigsaw pieces clearly.

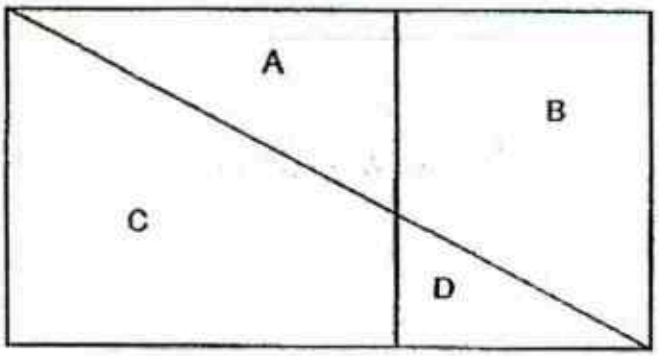


4

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5 The figure below is not drawn to scale. The rectangle below is divided into four parts, A, B, C and D. The ratio of area A to area B is 2 : 3. The ratio of area C to area D is 10 : 2. Find the ratio of area C to area B.
(Give your answer in its simplest form.)

Do not write in this column



Ans: _____

2

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Questions 6 to 18, show your working clearly in the space below each question and write your answers in the space provided. The number of marks awarded is shown in the brackets [ ] at the end of the question or part-question.

(50 marks)

Do not write in this column

6 The ratio of the number of cupcakes in bakery A to that of bakery B was 5 : 3. After bakery A sold 55 cupcakes, the ratio of the number of cupcakes bakery A to that of bakery B became 5 : 4 . How many cupcakes were there in bakery A at first?

Ans : _____ [3]

7 Ling Ling and Ping Ping have some sweets each. If Ling Ling gives Ping Ping 16 sweets, they will have an equal number of sweets. If Ling Ling gives Ping Ping 46 sweets, Ling Ling will have $\frac{1}{3}$ as many sweets as Ping Ping. How many sweets does Ling Ling have at first?

Ans : _____ [3]

6

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8 Mr Fernando saves 15% of his salary every month. He received a 20% increase in his salary and realised that he could save $200 more. What was his salary after the pay increment?

Do not write in this column

Ans : _____ [3]

9 The sum of Alice's and Tiffany's ages is 27. The sum of Alice's and Samantha's ages is 23. The sum of Tiffany's and Samantha's ages is 20. What is the age of the youngest girl?

Ans: _____ [3]

6

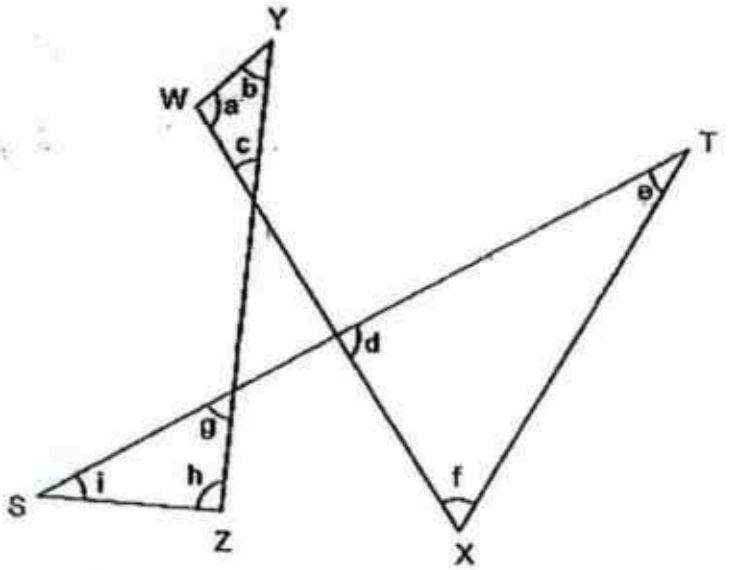
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10 The figure below is not drawn to scale.

WX, ST, YZ are straight lines.

a) Find the sum of $\angle c$, $\angle d$ and $\angle g$.

b) Find the sum of $\angle a$, $\angle b$, $\angle e$, $\angle f$, $\angle h$ and $\angle i$.



Do not write in this column

Ans: (a) _____ [1]

(b) _____ [2]

3

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11 Ben answered 30 questions in a quiz and scored 129 marks. For every correct answer, 5 marks were awarded. For every wrong answer, 2 marks were deducted. How many questions did Ben answer wrongly?

Do not write in this column

Ans : _____ [4]

4

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12 Mavis was driving her car from Town P to Town Q. After travelling 50% of the journey, she passed a van travelling in the same direction at a uniform speed of 50 km/h. 3 hours later, Mavis reached her destination and the van was 5 km away from Town Q. How far was Town P from Town Q?

Do not write in this column

Ans: _____ [4]

4

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13 Study the figures carefully then answer the questions that follow.

Do not write in this column

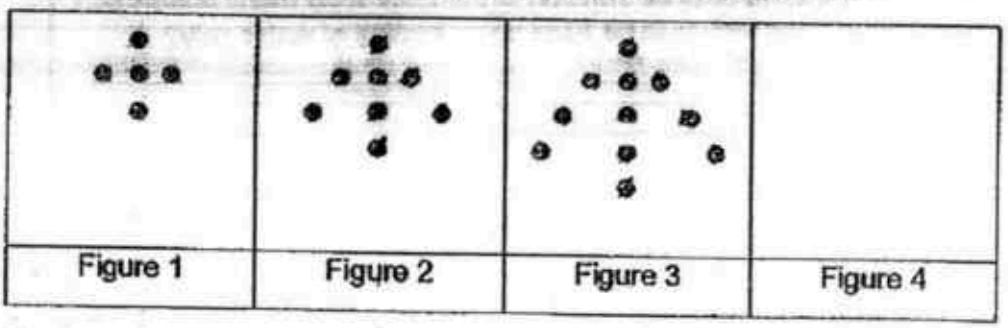


Figure 1	Figure 2	Figure 3	Figure 4

a) How many dots are there in Figure 4?
b) How many dots are there in Figure 10?
c) Which figure has a total of 305 dots?

Ans a) _____ [1]

b) _____ [1]

c) _____ [2]

4

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14 8 buckets of water are needed to fill $\frac{4}{9}$ the tank. Another 3 buckets and 14 bottles of water are needed to fill the tank to the brim. How many bottles of water are needed if the tank is to be filled up by bottles of water only?

Do not write in this column

Ans : _____ [4]

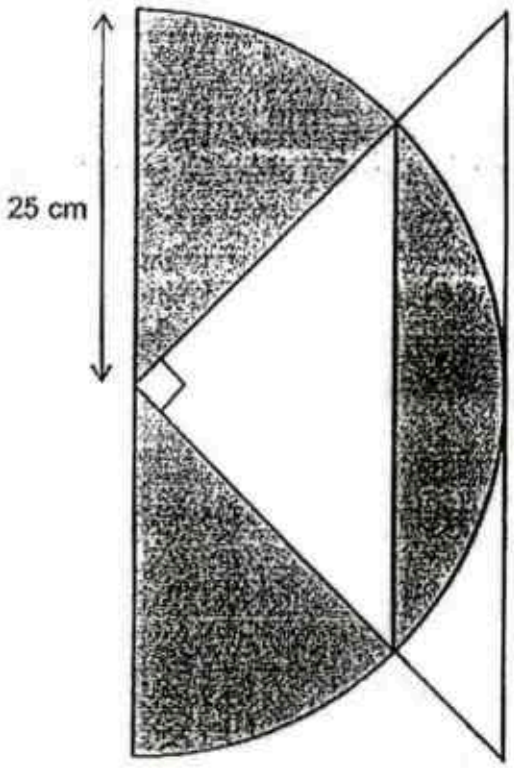
4

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15 The figure below is made up of a semicircle and 2 right-angled triangles. Find the total area of the shaded parts in the figure below.

(Take $\pi = 3.14$)

Do not write in this column



Ans : _____ [4]

4

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16 There were 3200 participants at the Chingay Festival. The ratio of the number of girls to the number of boys to the number of adults is 5 : 3 : 8. When 480 more people joined, the number of girls was increased by 12% and the number of boys was increased by 20%. What was the percentage increase in the number of adults?

Do not write in this column

Ans : _____ [5]

5

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17 There were 3000 workers in a factory last year. This year, there is a 12% increase in the number of workers.

Do not write in this column

(a) Find the total number of workers in the factory this year.

Compared to last year, there is a **20% increase in the number of male workers** and a **20% decrease in the number of female workers.**

(b) Find the number of female workers in the factory this year.

Ans: a) _____ [2]

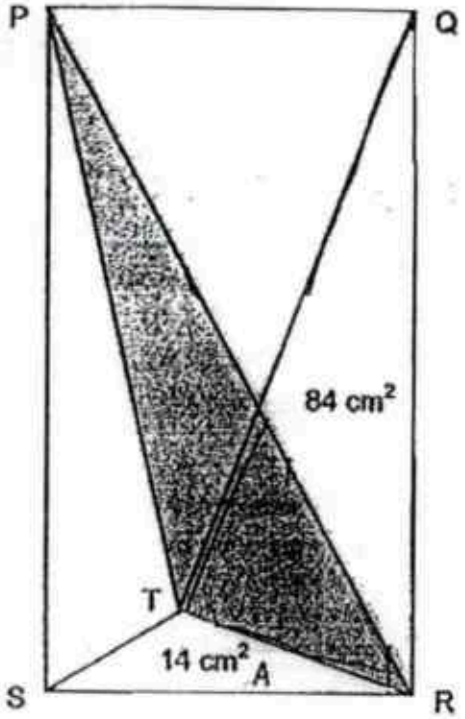
b) _____ [3]

5

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18 The shape below is made up of a rectangle and triangles. T is a point in rectangle PQRS. The ratio of the area of triangle PQT to the area of triangle QRT is 8 : 7. The area of triangle QRT is 84 cm^2 and the area of triangle STR is 14 cm^2. Find the area of the shaded triangle.

Do not write in this column



Ans: _____ [5]

5

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SINGAPORE CHINESE GIRLS' SCHOOL
FIRST SEMESTRAL ASSESSMENT 2015
PRIMARY 6 MATHEMATICS
PAPER 1

1) 4 2) 3 3) 4 4) 2 5) 4 6) 2 7) 3 8) 1
9) 2 10) 2 11) 2 12) 4 13) 1 14) 2 15) 4

16) 701

17) (2/3)/(1/12) = 8

18) 7401

19) H & I

20) 6/24x100% = 25%

21) (9x3+4-6x3)/3 = 4/1/3

22) 90°-12° = 78°

23) 2/3h x 30km/h = 20 km

24) 540/(18x10) = 3 cm

25) G : B total
= 3 : 7 10u
now
2 : 3 5u
4 : 6 10u
1u -- 150
10u -- 10x150 = 1500 children

26) 5/(2/7) = 35/2 = 17.5 ≈ 17 bottles

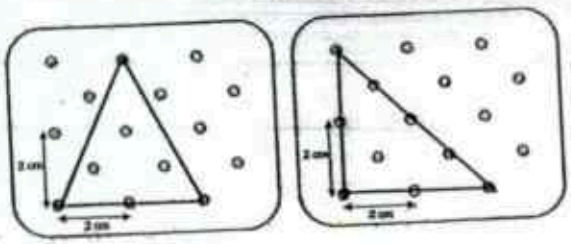
27) 10u -- 272
2u -- 2/10x272 = 54.4
hence there are 54 Malay families

28) (60-g)/3 marbles

29) 1/3 x 4/5 = 4/15
4/5 - 4/15 - 2/15 = 2/5

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30)



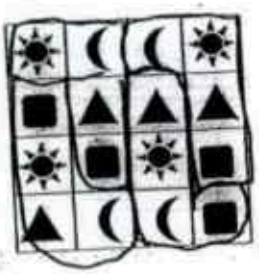
Paper 2

1) 25/100x80% = 20%
   20%+80%+125% = 225%
   225% -- 2700
   100% -- 100/225x2700 = 1200 fruits

2) 28/(32+25+28+27)x100% = 25%

3) 2+$0.50x14 = $9

4)

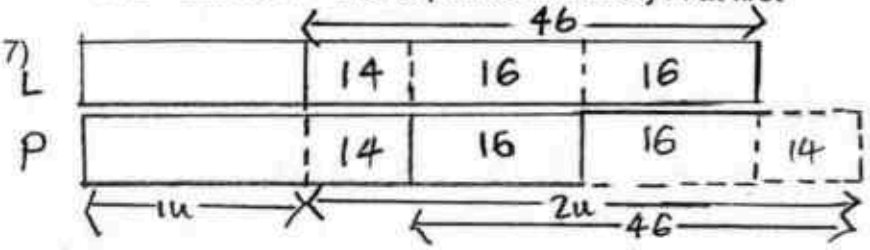


5) A : B total
   2 : 3 5u
   C : D
   5 : 1 6u
   A+B = C+D
   A : B : C : D
   12 : 18 : 25 : 5
   hence, the ratio is 25 : 18

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6) A : B
old, 5 : 3
new, 5 : 4
since there is no change in number of cupcakes in bakery B,
old, 20 : 12
new, 15 : 12
5u -- 55
20u -- 20/5x55 = 220 cupcakes in bakery A at first

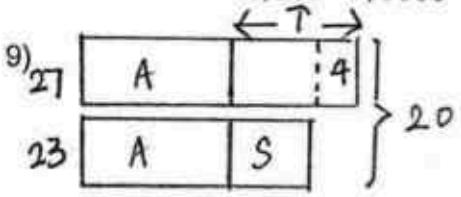
7)



2u -- 14+46 = 60
1u -- 60/2 = 30
30+46 = 76 sweets at first

8) 15/100x20% = 3%
3% -- $200
120% -- 120/3x$200 = $8000

9)



20-4 = 16
16/2 = 8 years' old (Samantha)

10a) 180°
b) 3x180°-180° = 360°

11) 30x5 = 150
150-129 = 21
5+2 = 7
21/7 = 3 questions answered wrongly

12) 1/2 of journey = 50x3+5 = 155 km
Distance between Town P and Town Q = 155x2 = 310 km

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13a) 14 dots
b) 10-1 =9
9x3 = 27
27+5 =32 dots
c) 305-5 = 300
300/3 = 100
100+1 = 101

14) 4u -- 8 buckets
5u -- 5/4x8 = 10 buckets
10-3 = 7 buckets
7 buckets -- 14 bottles
18 buckets -- 18/7x14 = 36 bottles

15) Total shaded area = 1/2x3.14x25x25-1/2x25x25 = 981.25-312.5 = 668.75 sq cm

16) G : B : A
5 : 3 : 8
12/100x5 = 0.6 u
20/100x3 = 0.6 u
1.2x200 = 240
480-240 = 240
240/1600x100% = 15%

17a) 112/100x3000 = 3360 workers
b) 5p+5u = 3000
1p+1u = 600
6p+6u = 600x6 = 3600
6p+4u = 3360
Difference: 2u -- 3600-3360 = 240
4u -- 4/2x240 = 480 female workers

18) 7u -- 84
8u -- 8/7x84 = 96
Area of 1/2 a rectangle = 96+14 = 110 sq cm
Shaded area = 96+84-110 = 70 sq cm

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PRIMARY 6 MID-YEAR EXAMINATION 2015

Name : _____ _____( ) Date: 18 May 2015

Class : Primary 6 ( ) Time: 8.00a.m. – 8.50a.m.

Parent's Signature : _____

MATHEMATICS

PAPER 1

(BOOKLET A)

20

INSTRUCTIONS TO CANDIDATE

1. Write your name, class and register no.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Show your working clearly as marks are awarded for correct working.
6. You are NOT allowed to use a calculator.

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Questions **1** to **10** carry 1 mark each. Questions **11** to **15** carry 2 marks each.
For each question, four options are given. One of them is the correct answer.
Make your choice (1, 2, 3 or 4). Shade the correct oval on the Optical Answer Sheet.

(20 marks)

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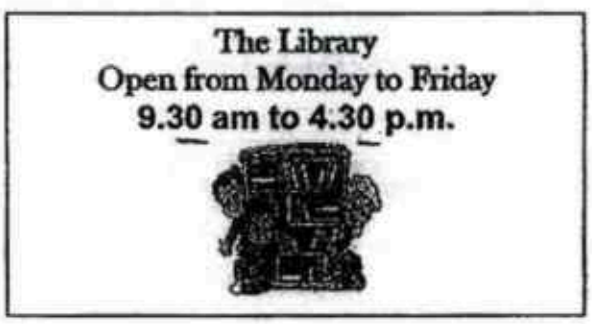
1) Round 4.728 to 2 decimal places.

(1) 4.80
(2) 4.73
(3) 4.72
(4) 4.70

2) In 924.53, what does the digit 5 stand for?

(1) 5 tenths
(2) 5 hundredths
(3) 5 ones
(4) 5 tens

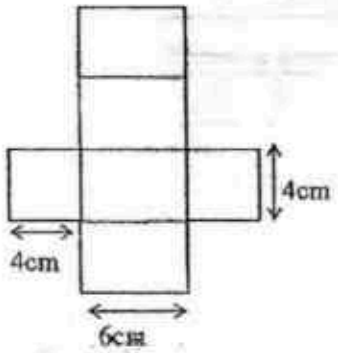
3) The opening hours of a school library are shown below. How long is the library open each day?



(1) 6 h
(2) 6 h 30 min
(3) 7 h
(4) 7 h 30 min

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4) The figure shows the net of a cuboid. Find its volume.



(1) 64 cm^3

(2) 96 cm^3

(3) 144 cm^3

(4) 216 cm^3

5) In a bus of 40 passengers, 24 are women. What is the ratio of the number of men to the number of women?

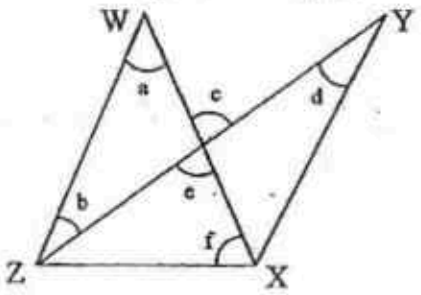
(1) 2 : 3

(2) 2 : 5

(3) 3 : 2

(4) 3 : 5

6) In the figure shown, WX and YZ are straight lines. Which of the two angles given in the figure are equal?



(1) ∠a and ∠f

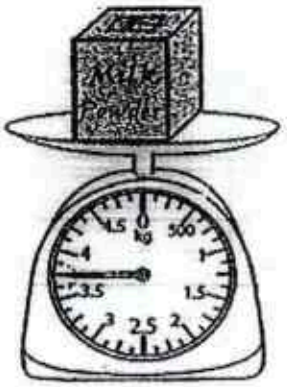
(2) ∠b and ∠d

(3) ∠c and ∠e

(4) ∠d and ∠e

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7) Find the mass of the packet of milk powder.



(1) 3.7 kg
(2) 3.8 kg
(3) 3.65 kg
(4) 3.75 kg

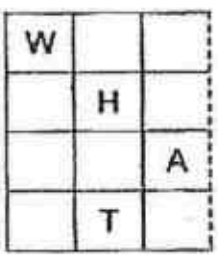
8) Which of the following figures completes the other symmetrical half of the figure?



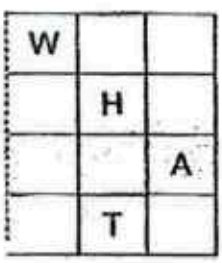
(1)



(2)



(3)



(4)



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9) Zeph receives $120 each month. He spends $80 and saves the remainder. What fraction of his expenditure is his savings?

(1) $\frac{2}{3}$

(2) $\frac{1}{2}$

(3) $\frac{2}{5}$

(4) $\frac{1}{3}$

10) Express 2.5 as a percentage.

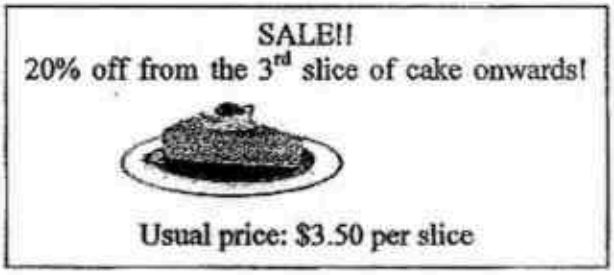
(1) 2.5%

(2) 25%

(3) 250%

(4) 2500%

11) How much will Mary have to pay for 4 slices of cake during the sale?



(1) $14

(2) $12.60

(3) $11.90

(4) $8.40

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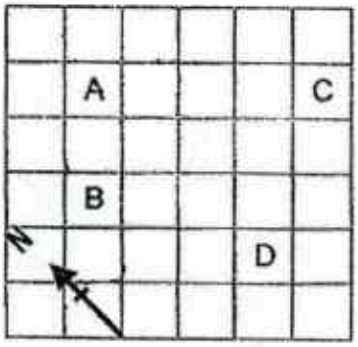
12) Michael bought h twenty-cent stamps and 5 fifty-cent stamps. How much did he spend on the stamps? Give your answer in terms of h.

(1) $\$(20h + 250)$

(2) $\$270h$

(3) $\$\frac{270h}{100}$

(4) $\frac{20h+250}{100}$

13) 

In the diagram on the left,
A, B, C and D are four points on the ground.
In what direction is C from A?

(1) East

(2) South

(3) South-East

(4) South-West

14) $\frac{1}{5}$ of A is the same as $\frac{2}{3}$ of B and A is twice of C. What is the ratio of A : B : C?

(1) 10 : 3 : 5

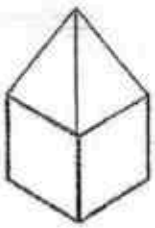
(2) 10 : 3 : 20

(3) 3 : 10 : 6

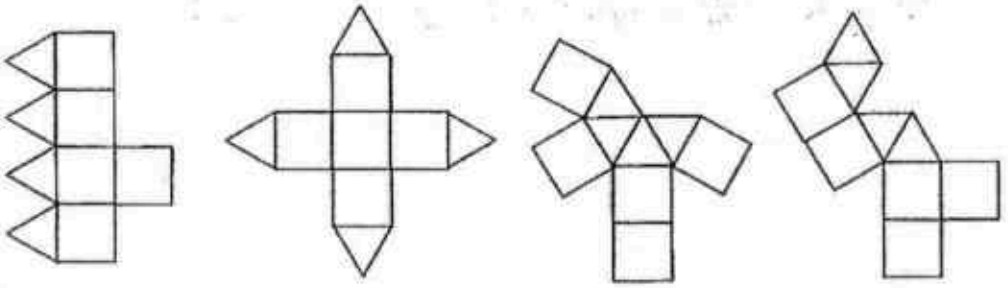
(4) 1 : 2 : 2

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15) The figure below shows a solid.



Which of the following nets can be folded to form the solid shown above?



(A) (B) (C) (D)

(1) A and B only
(2) B and C only
(3) A, B and C only
(4) A, B, C and D

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Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

---

16) Write down all the common multiples of 6 and 9 that is less than 40.

Ans: _____

17) Find the value of $\frac{3}{4} + 36$

Give your answer as a fraction in the simplest form.

Ans: _____

18) What is the value of $54 - 63 \div 7 + 150 \div 6 \times 60$?

Ans: _____

19) Express $\frac{3}{20}$ as a decimal

Ans: _____

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PRIMARY 6 MID-YEAR EXAMINATION 2015

Name : _____( ) Date: 18 May 2015

Class : Primary 6 ( ) Time: 8.00 a.m. – 8.50 a.m.

Parent's Signature : _____

MATHEMATICS

PAPER 1

(BOOKLET B)

/ 20

INSTRUCTIONS TO CANDIDATE

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3. Follow all instructions carefully.
4. Answer all questions.
5. Show your working clearly as marks are awarded for correct working.
6. You are NOT allowed to use a calculator.

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20) Find the value of $2 - \frac{1}{3} + \frac{3}{4}$

Give your answer as a fraction in the simplest form.

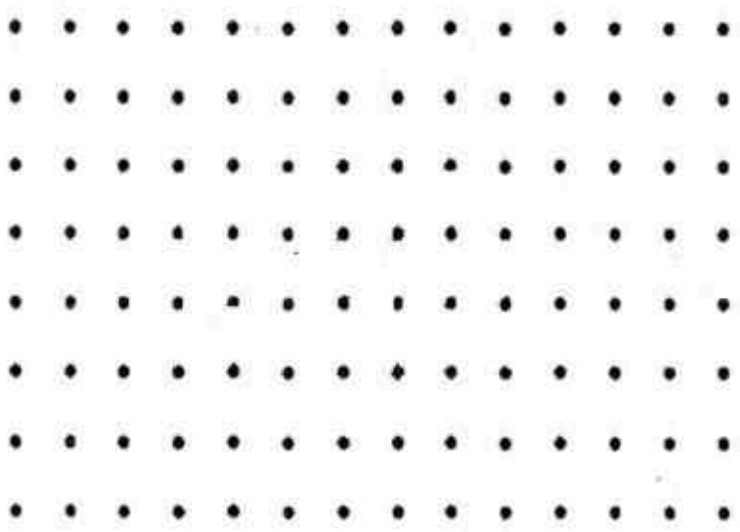
Ans: _____

21) The average of 3 numbers is 18. The average of another 2 numbers is 7. What is the average of the 5 numbers?

Ans: _____

22) This shape  is used to form a tessellation in the grid below.

The boundary of the tessellation has been drawn for you. Complete the tessellation by drawing the correct number of unit shape within the boundary.

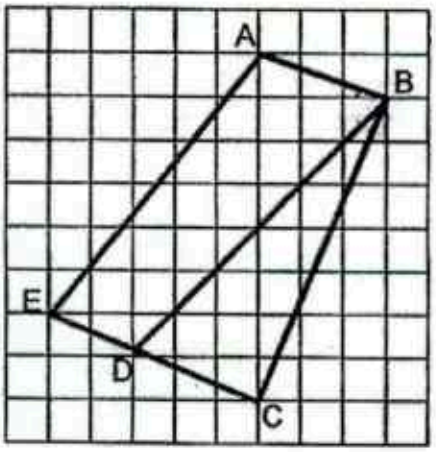


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23) Roxann wrote the numbers 1 to 99 on cards for a class bonding activity. How many times did she write the digit 9?

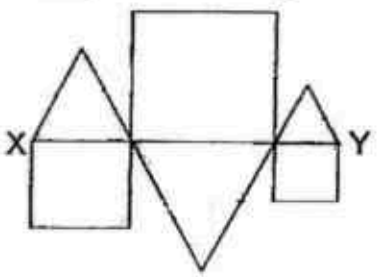
Ans: _____

24) Which two lines in the square grid below are perpendicular to each other?



Ans: _____ and _____

25) The figure below is formed using 3 squares and 3 equilateral triangles. The length of the straight line XY is 17 cm. Find the perimeter of the figure.



Ans: _____ cm

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Questions **26** to **30** carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided.
For questions which require units, give your answers in the units stated. (10 marks)

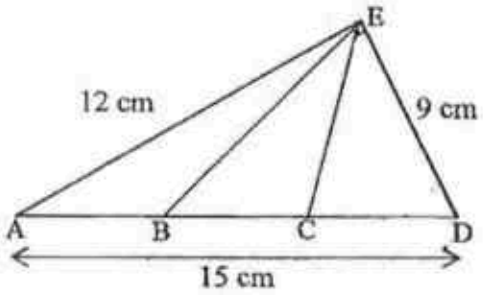
---

26) Keith parked his car for 4 hours and 15 minutes. How much did he have to pay for car park charges?

Rate	Parking fees
First ½ hour	$3.00
Each subsequent 1 hour or part thereof	$1.50

Ans: $_____

27) The figure shows a right-angled triangle, ADE. AB = BC = CD. What is the area of triangle EBC?



Ans: _____ cm^2

28) Gurmit bought a watch at a discount of 20%. Its usual price was $250 without GST. Find the 7% GST of the discounted price.

Ans: $ _____

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29) Shannon had 12 bookmarks. She sold 3 of them at $\$5f$ and the rest at $\$f$ each. How much did she collect in terms of f?

Ans: $\$$_____

30) Miss Tan baked some muffins. If she gives 4 to each of her pupils, she will have 6 muffins remaining. If she gives 5 muffins to each of her pupils, there is no remainder. How many muffins did Miss Tan bake?

Ans: _____

- END OF PAPER 1 -

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TAO NAN SCHOOL 道南学校

SINCERITY & PERSEVERANCE

PRIMARY 6 MID-YEAR EXAMINATION 2015

Name : _____( ) Date: 18 May 2015

Class : Primary 6 (Time: 10.00a.m. – 11.40a.m.

Parent's Signature : _____

MATHEMATICS

PAPER 2

/ 60

INSTRUCTIONS TO CANDIDATE

1. Write your name, class and register no.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Show your working clearly as marks are awarded for correct working.
6. You are allowed to use a calculator.

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Questions **1** to **5** carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

---

1) Express 6h as a percentage of 90 min.

Ans: _____%

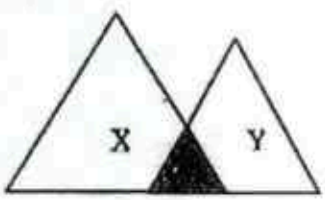
---

2) A wooden plank is 1.8 m long, 0.6 m wide and 2 cm thick. What is its volume?

Ans: _____cm^3

---

3) The figure below is made up of 2 overlapping triangles, X and Y. The ratio of the shaded area to the area of Triangle X is 3 : 11 . The ratio of the shaded area to the area of Triangle Y is 4 : 11.
What is the ratio of the shaded area to the total unshaded area of the figure?



Ans: _____

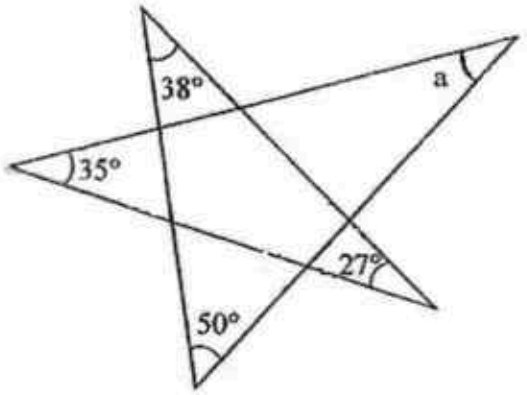
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4) Renny is 16 years younger than her cousin. In 4 years' time, their total age will be 48 years. How old is Renny now?

Ans: _____ years old

---

5) The figure, not drawn to scale, is formed using five straight lines. Find ∠a.



Ans: _____ °

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For questions **6** to **18**, show your working clearly in the space provided for each question and write your answers in the spaces provided.
The number of marks available is shown in brackets [ ] at the end of each question or part-question. (50 marks)

---

6) Shawn had $90 more than Abigail. If Abigail gave Shawn $15, Shawn would have thrice as much money as Abigail. How much money did Shawn have at first?

Ans: _____ _____ [3m]

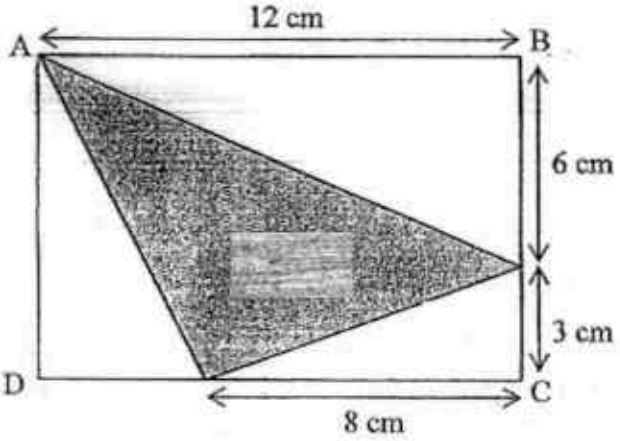
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7) Four children take 2h to wrap 8 gift boxes. How long will it take 10 children to wrap 20 boxes?

Ans: _____ [3m]

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8) In the figure below, ABCD is a rectangle. Find the area of the shaded part.



Ans: _____ [3m]

---

9) Rachel needs to make some wrist bands for a fund-raising ~~day~~. She made $\frac{1}{5}$ of the wrist bands on the first day and 45 on the second day. The number of wrist bands that she made on the second day was $\frac{1}{4}$ more than the number of wrist bands she made on the first day. How many wrist bands does Rachel need to make for the fund-raising ~~day~~ event?

Ans: _____ [3m]

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10) 8 pails of water can fill $\frac{7}{11}$ of a tank. Another 4 pails and 3 jugs are needed to fill the tank completely. How many jugs of water can the tank hold?

Ans: _____ [3m]

---

11) Amy, Bella and Chris shared a box of beads. Amy took $\frac{1}{5}$ of the total number of beads and another 12 beads. Bella took $\frac{1}{3}$ of the remaining beads in the box and another 14 beads. Chris took the last 26 beads in the box. How many beads were there in the box at first?

Ans: _____ [4m]

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12) Mr Cheng used $\frac{3}{8}$ of a rectangular piece of land to grow bananas and $\frac{8}{15}$ of the remainder to grow mangoes. He had 5600 m^2 of land left. The length of the land was 240 m. Find the breadth of the land.

Ans: _____ [4m]

---

13) Fenny is f cm tall. Germaine is twice as tall as Fenny. Harriot is 24 cm shorter than Germaine.

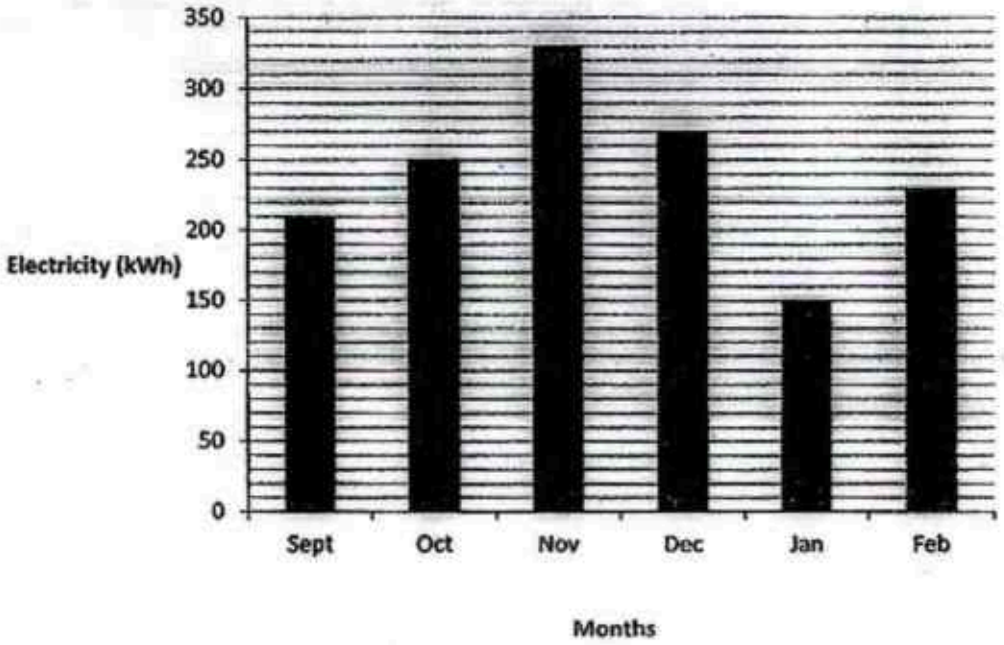
(a) What is the average height of the three girls in terms of f?
(b) If Fenny is 75 cm tall, what is the difference between Harriot's and Fenny's height?

Ans: (a) _____ [2m]

Ans: (b) _____ [2m]

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14) The graph below shows Mr Abram's electricity consumption from September to February.



(a) What was the percentage increase decrease in electricity consumption from October to November?

(b) If the national average consumption was 360 kWh, in which month was Mr Abram's consumption 75% of the national average?

Ans: (a) _____ [2m]

Ans: (b) _____ [2m]

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15) At a ballet school, 70% of the students were Singaporean students and the rest were foreign students. 75% of the Singaporean students and $\frac{2}{3}$ of the foreign students were female. There were 1200 students at the school. How many more female than male students were there at the ballet school?

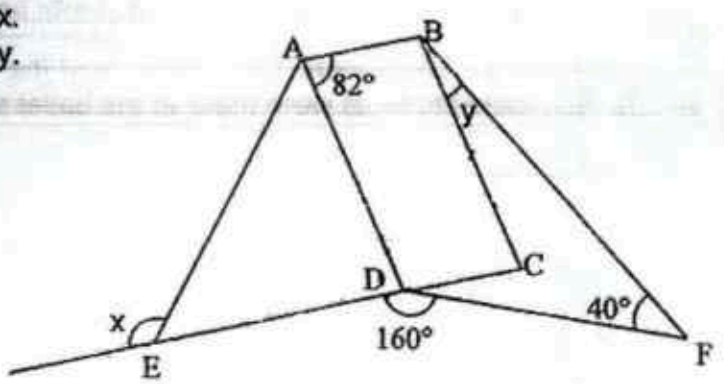
Ans: _____ [4m]

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16) In the diagram below, not drawn to scale, ABCD is a parallelogram. CDE is a straight line and AD = DE.

(a) Find $\angle x$.

(b) Find $\angle y$.



Ans: (a) _____ [2m]

Ans: (b) _____ [3m]

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17) A bus company charges $60 for every trip made on time and 10% less for a late trip. Last October, the bus company collected $16 380.
For every 20 trips made, 5 were late trips. How many trips were made on time?

Ans:_____[5m]

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18) A coin box contained 20-cent coins and 50-cent coins in the ratio 3 : 2. When ten 20-cent coins were taken out, exchanged for 50-cent coins and the money returned into the box, the ratio of the number of 20-cent coins to the number of 50-cent coins was 7 : 10.
Find the sum of money in the coin box.

Ans: _____ [5m]

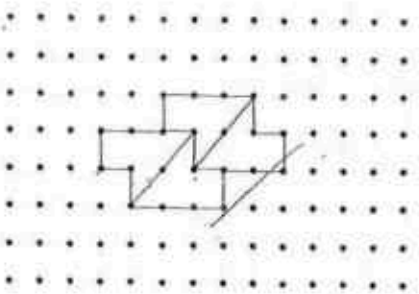
- END OF PAPER 2 -

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Tao Nan Schoool
Primary 6 Mid-Year Examination 2015
Paper 1

1) 2 2) 1 3) 3 4) 2 5) 1 6) 3 7) 4 8) 1
9) 2 10) 3 11) 2 12) 4 13) 3 14) 1 15) 4

16)18 & 36
17) 1/48
18) 54-63÷7+150+6x60
= 54-9+150+360
= 45+150+360
= 555
19) 0.15
20) 2/5/12
21)13.6
22)



23) 20
24) BC & DC
25) 17X5 = 85
26) 3+4X1.50 = $9
27)1/2X12X9 = 54
54÷3 = 18
28) 100%-20% = 80%
80/100X250 = 200
7/100X200 = $14
29) $14f
30) 5-1 = 4
6/1 = 6
6x5 = 30 muffins

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Paper 2

1) (6x60)/90 X 100% = 400%

2) 180x60x2 = 21600

3) Unshaded X : Shaded area : Shaded Y

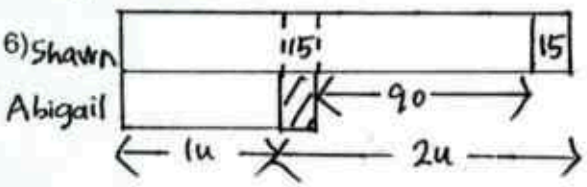
8	:	3		
		4	:	7
32	:	12	:	21

Ans: 12 : 53

4) 48-8 = 40
40-16 = 24
24÷2 = 12 years old

5) 50°+38° = 88°
35°+27° = 62°
Angle a = 180°-62°-88° = 30°

6)

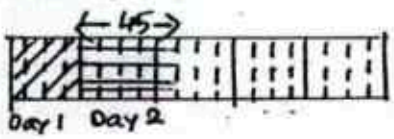


90+15+15 = 120
120÷2 = 60
60+15+90 = $165

7) 8g – 2h
20g -- 20/8x2 = 5h
4 children -- 5 h
10 children -- 4/10x5 = 2h

8) 12x9 = 108
1/2x12x6 = 36
1/2x9x4 = 18
1/2x3x8 = 12
108-36-18-12 = 42

9)



5u – 45
20u – 20/5x45 = 180

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10) 7u -- 8 pails
4u -- 4/7 x 8 = 32/7 = 4/4/7 pails
4/4/7-4 = 4/7
8+4/4/7 = 12/4/7
4/7 pails -- 3 jugs
12/4/7 pails -- 12/4/7÷4/7x3 = 66 jugs

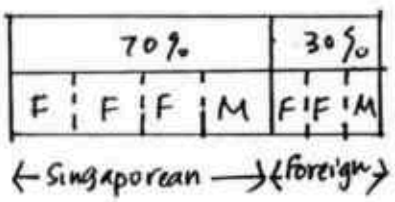
11) 2u -- 14+26 = 40
40/2x3 = 60
4u -- 60+12 = 72
72÷4 = 18
18x5 = 90 beads

12) 8/15x5/8 = 1/3
3/8+1/3 = 17/24
24u-17u = 7u
7u --5600
24u -- 19200
19200÷240 = 80 m

13a) Total = f+2f+2f-24 = 5f-24
Average = (5f-24)/3
b) Difference = 2f-24-f = f-24 = 75-24 = 51 cm

14a) 330-250 = 80
80/250x100% = 32% increase
b) 100% -- 360
75% -- 75/100x360 = 270
Ans: December

15)



17.5%x3 + 20% = 72.5%
72.5% - 27.5% = 45%
100% -- 1200
45% -- 45/100x1200 = 540 students

16a) Angle x = 180°-49° = 131°
b) Angle ADC = 180°-82° = 98°
Angle CDF = 360°-82°-160°-98° = 20°
Angle y = 180°-20°-40°-98° = 22°

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17) 100% -- $60
90% -- 90/100X60 = $54
20-5 = 15
15 x $60 = $900
5 x $54 = $270
$900 + $270 = $1170
$16 380 ÷ $1 170 = 14
14 x 15 = 210 trips

18)

	20c : 50c	difference
original	3 : 2	1u
in the end	7 : 10	3u
to get a difference of 6,	14 : 20	6u

hence, original number of 20c coins = 14+10 = 24
original number of 50c coins = 20-4 = 16
24 x $0.20 = $4.80
16 x $0.50 = $8

$4.80 + $8 = $12.80

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CATHOLIC HIGH SCHOOL

PRELIMINARY EXAMINATION 1 2015

MATHEMATICS

PRIMARY 6

PAPER 1

(BOOKLET A)

Name :_____( )

Class: Primary 6 _____

Date: 13 May 2015

Total Time for Booklets A and B: 50 min

15 questions

20 marks

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Shade your answers in the Optical Answer Sheet (OAS) provided.

The use of calculators is **NOT** allowed.

Booklet A and B consist of 13 printed pages.

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Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet. All diagrams are not drawn to scale. (20 marks)

---

1. What is the value of 3 ones, 7 tenths and 9 thousandths?

   (1) 0.379
   (2) 3.079
   (3) 3.709
   (4) 3.79

---

2. There were 35 468 spectators at a soccer match.
   Express this number to the nearest hundred.

   (1) 36 000
   (2) 35 500
   (3) 35 400
   (4) 35 000

---

3. Which one of the following is the most likely length of a teacher's table in a classroom?

   (1) 1.3 m
   (2) 1.3 cm
   (3) 13 m
   (4) 13 cm

(Go on to the next page)

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4. Express 3.2% as a fraction

(1) $1\frac{2}{3}$

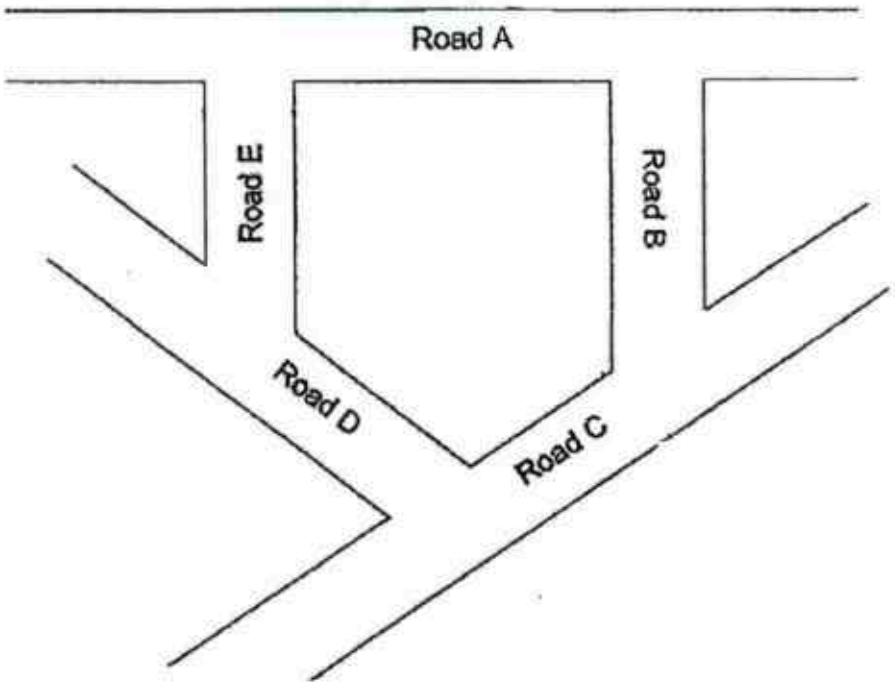
(2) $3\frac{1}{5}$

(3) $\frac{4}{125}$

(4) $\frac{8}{25}$

---

5. The figure shows some roads on a map.



Which road is perpendicular to Road E?

(1) Road A

(2) Road B

(3) Road C

(4) Road D

(Go on to the next page)

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6. What is the value of $30 - (6 + 12) \div 3 + 2$?,

(1) 2.4

(2) 6

(3) 22

(4) 26

---

7. Jenny bought a box of pencils that cost \$5.70.
She paid using nine 50¢ coins and some 20¢ coins.
How many 20¢ coins did she use?

(1) 1

(2) 6

(3) 12

(4) 24

---

8. Which of the following is equivalent to $\frac{5}{7} \div \frac{1}{8}$?

(1) $\frac{5}{7} \times \frac{1}{8}$

(2) $\frac{5}{7} \times \frac{8}{1}$

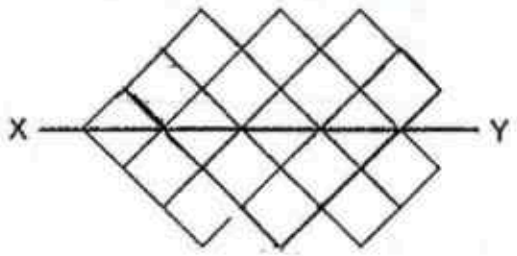
(3) $\frac{7}{5} \times \frac{1}{8}$

(4) $\frac{7}{5} \times \frac{8}{1}$

(Go on to the next page)

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9. The figure below shows 14 identical squares. What is the smallest number of squares that must be added so that the line XY becomes a line of symmetry?



(1) 5
(2) 2
(3) 3
(4) 4

---

10. At a party, 60 out of 150 adults are women. The rest are men. What percentage of the adults are men?

(1) 60%
(2) 6%
(3) 40%
(4) 4%

---

11. The table shows the parking charges at a car park.

Time	Parking charges
8 a.m. to 5 p.m.	$1.00 per hour or part thereof
After 5 p.m.	$0.50 per hour or part thereof

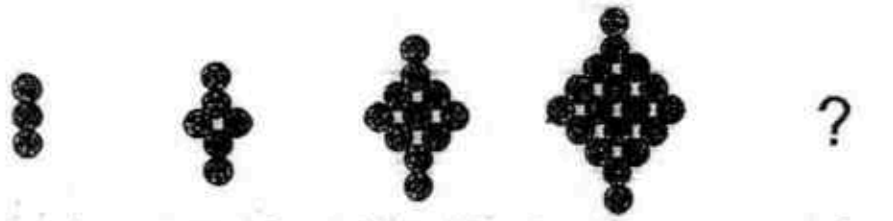
Susie parked her car from 3 p.m. to 6.15 p.m. on the same day. How much did she pay?

(1) $2.50
(2) $3.00
(3) $3.50
(4) $4.00

(Go on to the next page)

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12. Beads are joined together as shown in the patterns below.
How many beads will there be in pattern 5?



Pattern 1
3 beads

Pattern 2
6 beads

Pattern 3
11 beads

Pattern 4
18 beads

Pattern 5

(1) 35

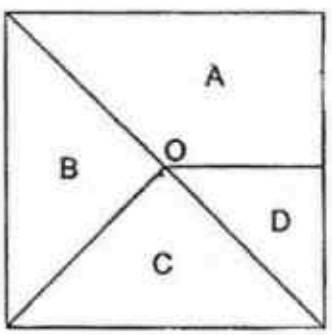
(2) 33

(3) 27

(4) 25

---

13. The figure below is a square made up of 4 parts, A, B, C and D.
O is the centre of the square.



Which of the following 2 parts will add to form $\frac{5}{8}$ of the figure?

(1) A and C

(2) A and D

(3) B and C

(4) B and D

(Go on to the next page)

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14. The price of a movie ticket on a weekday is $8. It increases to $12 on a weekend. What is the percentage increase in the price of a movie ticket on a weekend?

(1) 4 %

(2) $33\frac{1}{3}$ %

(3) 50%

(4) 400 %

---

15. Ivan withdrew some money from an ATM machine. He spent $75 on a basketball and $\frac{3}{5}$ of the remainder on a T-shirt. He had $44 left. How much money did he withdraw?

(1) $97

(2) $119

(3) $185

(4) $295

END OF BOOKLET A

(Go on to the next page)

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CATHOLIC HIGH SCHOOL

PRELIMINARY EXAMINATION 1 2015

MATHEMATICS

PRIMARY 6

PAPER 1

(BOOKLET B)

Name :_____( )

Class: Primary 6 _____

Date: 13 May 2015

Total Time for Booklets A and B: 50 min

15 questions

20 marks

Booklet A	/20
Booklet B	/20
Total	/40

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

The use of calculators is **NOT** allowed.

Booklet A and B consist of 13 printed pages.

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Questions **16** to **25** carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. **(10 marks)**

Do not write in this space.

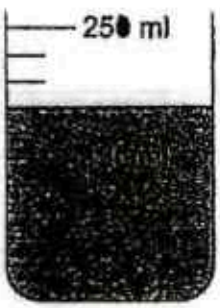
16. Find the value of 35.1 + 30.

Ans:_____

17. Express 0.1 minute in seconds

Ans:_____ s

18. The diagram below shows the amount of water in the container at first. 50 ml of the water is poured out. How much water is left in the container?



Ans: _____ ml

(Go on to the next page)

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19. Joseph and Kathy shared a sum of money in the ratio 3 : 2 at first. Find the ratio of the sum of money Joseph had to what Kathy had after Joseph gave half of his share to Kathy.

Do not write in this space.

Ans: _____

20. A late night movie ended at 01 15.
The movie was 2 hours and 30 minutes long.
What time did the movie start? Give your answer in 24-hour clock.

Ans: _____

21. $\frac{3}{4}$ of a pizza was shared by a group of children.

Each child had $\frac{1}{8}$ of the pizza.

How many children were there in the group?

Ans: _____

(Go on to the next page)

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22. Mrs Tan uses the recipe below to make pancakes.

Do not write in this space.

To make 6 pancakes
▪ 2 eggs
▪ 1 cup of flour
▪ 1 cup of milk
▪ 4 teaspoons of sugar

How many teaspoons of sugar does Mrs Tan need to make 72 pancakes?

Ans: _____

23. Ethan is k years old. Francis is 1 year younger than Ethan. Gerald is $4k$ years older than Francis. How old is Gerald? Express your answer in terms of k in the simplest form.

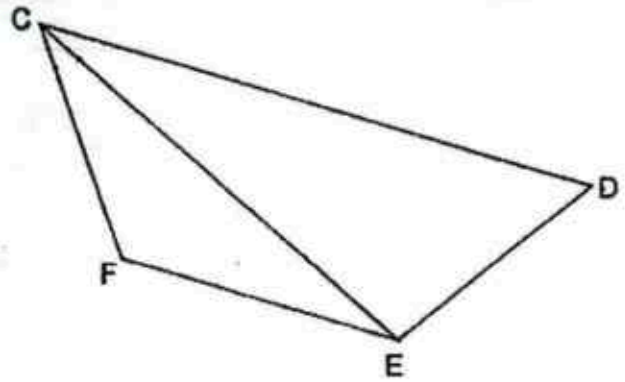
Ans: _____ years

(Go on to the next page)

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Do not write in this space.

Use the figure below to answer questions 24 and 25.



24. Draw a line joining C and E.
Measure and write down the length of CE to the nearest cm.

Ans:_____ cm

25. Measure and write down the size of ∠FCD.

Ans:_____ °

Total marks for questions 16 to 25

(Go on to the next page)

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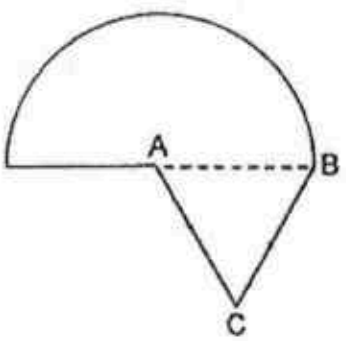
Questions 26 to 30 carry 2 marks each. Show your working and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space.

26. Find the sum of the common factors of 27 and 54.

Ans: _____

27. The figure below is made of a semicircle of diameter 14 cm and an equilateral triangle ABC. Point A of the triangle lies on the centre of the circle. Find the perimeter of the figure.
Give your answer in terms of π in the simplest form.



Ans: _____ cm

(Go on to the next page)

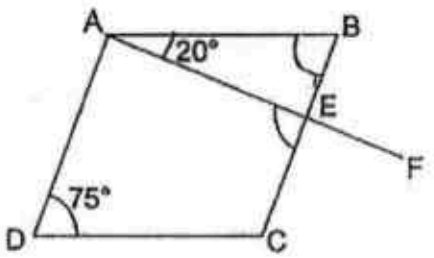
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28. At a chocolate shop, a chocolate bar was sold at a discount of 40%. Malcolm paid $1.20 for a chocolate bar. What was the usual price of the chocolate bar before discount?

Do not write in this space.

Ans: $_____

29. ABCD is a rhombus. AEF is a straight line. Find ∠AEC.

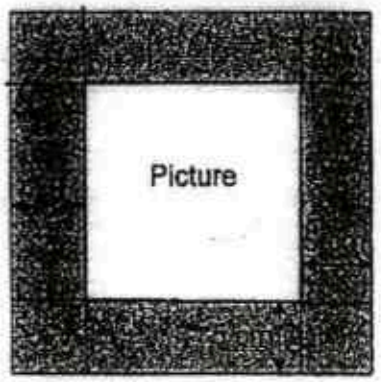


Ans: _____°

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30. In the figure below, a square picture has a shaded border around it. The width of the border is 5 cm and its area is 500 cm^2. What is the length of side of the picture without the border?



Ans:_____cm

Total marks for questions 26 to 30

END OF BOOKLET B
END OF PAPER 1

(Go on to the next page)

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CATHOLIC HIGH SCHOOL

PRELIMINARY EXAMINATION 1 2015

MATHEMATICS

PRIMARY 6

PAPER 2

Name :_____( )

Class: Primary 6 _____

Date: 13 May 2015

Total Time: 1 h 40 min

18 questions

60 marks

Parent's Signature: _____

Paper 1 Booklet A	20
Paper 1 Booklet B	20
Paper 2	60
Total Marks	100

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

The use of an approved calculator is expected, where appropriate.

This booklet consists of 16 printed pages.

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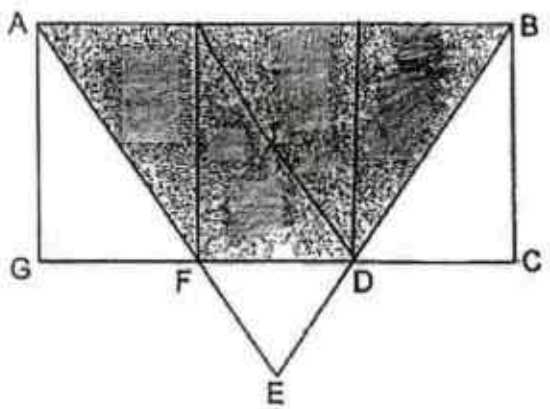
Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. (10 marks)

Do not write in this space.

1. Kaili bought 3 pens and 2 exercise books for $\$2d$.
Each pen cost $50¢$. How much did each exercise book cost?
Give your answer in terms of d.

Ans: \$_____

2. In the figure ABCDEFG below, ABCG is a rectangle and ABE is a triangle. $\frac{1}{9}$ of ABE is unshaded. GF = FD = DC.
What fraction of the figure ABCDEFG is unshaded?

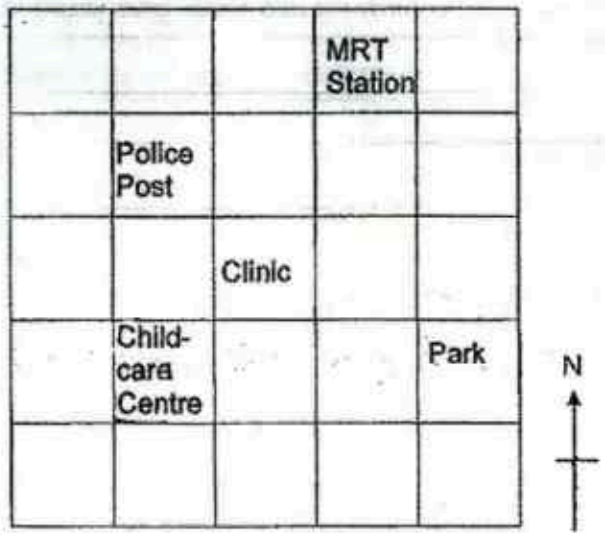


Ans:_____

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3. The square grid below shows the plan of a neighbourhood.

Do not write in this space.



(a) Fill in the blanks with childcare centre, clinic, MRT station, park or police post.

Ans: The _____ is west of the _____.

(b) A community club will be built in the neighbourhood.
The location of the community club is to be south of MRT station and north-east of the clinic.
Put a tick (√) in the square where the community club will be located.

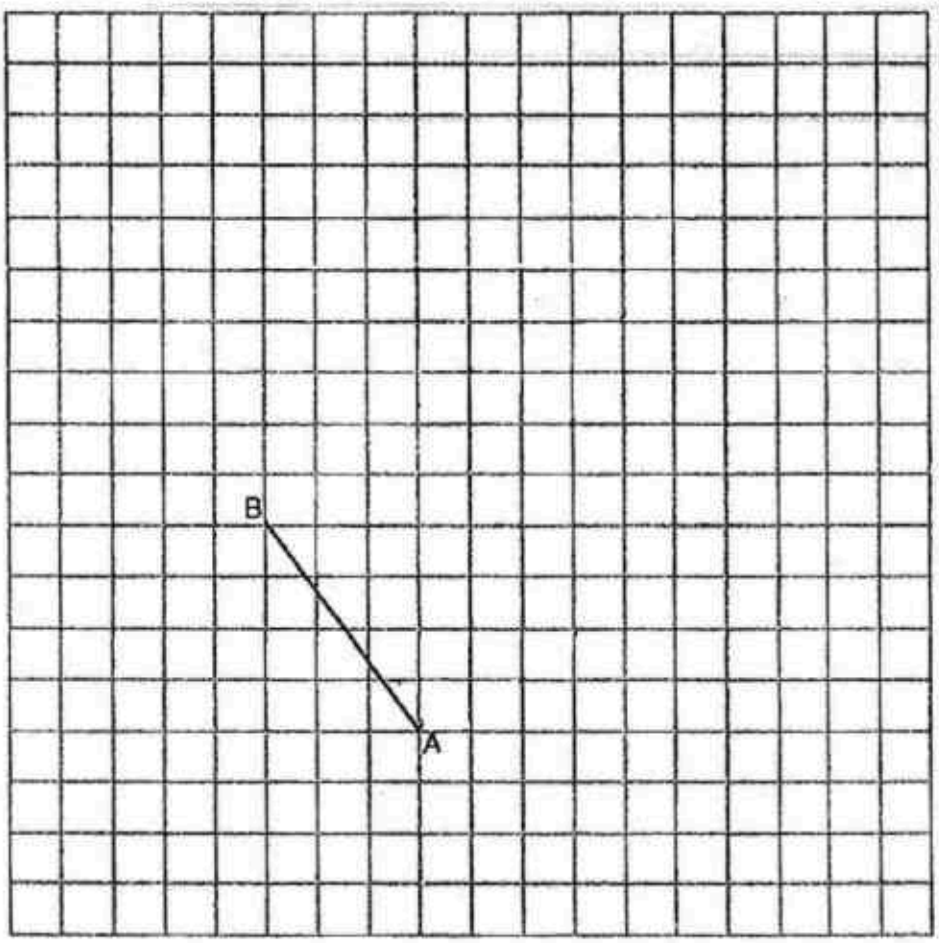
4. Jeremy bought some stickers. He gave $\frac{1}{8}$ of his stickers to his sister and $\frac{1}{4}$ of his stickers to his friend. He had 20 stickers left.
How many stickers were given to his sister?

Ans: _____

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5. In the square grid below, AB forms one side of a triangle ABC in which ∠ABC is a right angle and BC is twice the length of AB.
Complete the drawing of the triangle within the grid.

Do not write in this space.



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For questions 6 to 18, show your working and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question.
All diagrams are not drawn to scale. (50 marks)

Do not write in this space.

6. Belinda had 830 stamps and Carol had 70 stamps. Henry gave each of them an equal number of stamps. As a result, the ratio of the number of stamps Belinda had to the number of stamps Carol had was 5 : 1.
How many stamps did Henry give each of them?

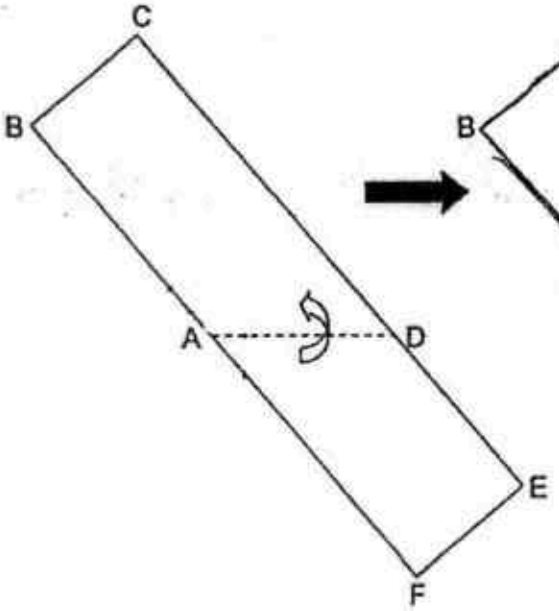
Ans: _____ [3]

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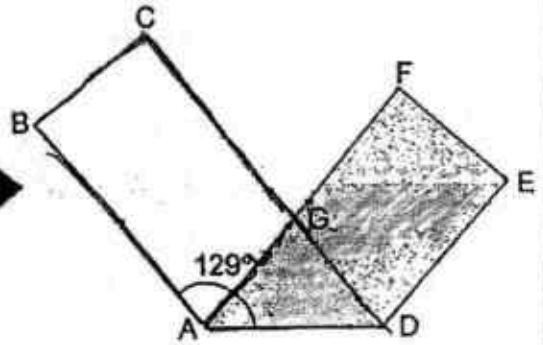
7. Stephen has a rectangular piece of paper BCEF. He folded it along the dotted line AD as shown below. ∠DAB is 129°. Find ∠FGC.

Do not write in this space.

Before folding



After folding



Ans: _____ [3]

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8. Printer A can print 40 more worksheets than Printer B in one minute. In a printing job, Printer A took 10 minutes while Printer B took 15 minutes to print the same number of worksheets.
How many worksheets did each printer print?

Do not write in this space.

Ans: _____ [3]

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9.

Special Promotion
Durian puff at $1.20 each
1 free durian puff for every purchase of 5 durian puffs

Isaac paid $19.20 for the durian puffs at the special promotion.
How many durian puffs did he get?

Do not write in this space.

Ans: _____ [3]

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10. Jared packed some sweets and chocolates into gift bags as door gifts for his birthday party. He tried putting every 2 sweets with 1 chocolate into a bag and found that he had 30 chocolates left over. When he put every 2 sweets with 2 chocolates, he needed another 50 chocolates. How many sweets and chocolates did he have altogether?

Do not write in this space.

Ans: _____ [3]

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11. Mrs Lim bought 3 similar bags and 5 similar watches. A watch cost $28 more than a bag. The total cost of the watches was $220 more than the total cost of the bags. How much did Mrs Lim pay for the bags and watches altogether?

Do not write in this space.

Ans: _____ [4]

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12. Some adults and children visited an exhibition. 75% of the visitors at the exhibition were adults and 20% of the remaining visitors were boys. There were 330 more adults than girls. How many visitors were there at the exhibition?

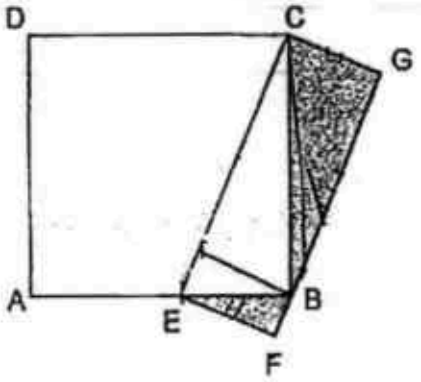
Do not write in this space.

Ans: _____ [4]

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13. In the figure below, ABCD is a square and EFGC is a rectangle. The area of the shaded part of the rectangle is 42 cm^2. Point B is on FG and point E is on AB. The ratio of the length of AE to the length of AB is 4 : 7. Find the area of the square ABCD.

Do not write in this space.



Ans: _____ [4]

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14. Alan had blue and red balloons for his party.

$\frac{1}{3}$ of the total number of balloons had burst by the end of the party.

$\frac{4}{5}$ of the burst balloons were blue. $\frac{2}{3}$ of the balloons left were red.

What fraction of the balloons for the party was blue?
Give your answer in the simplest form.

Do not write in this space.

Ans: _____ [4]

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15. There were 265 kg of apples and pears at a market. After 60% of the pears and 20 kg of the apples were sold, the remaining apples and pears were of equal mass. What was the original mass of the apples at first?

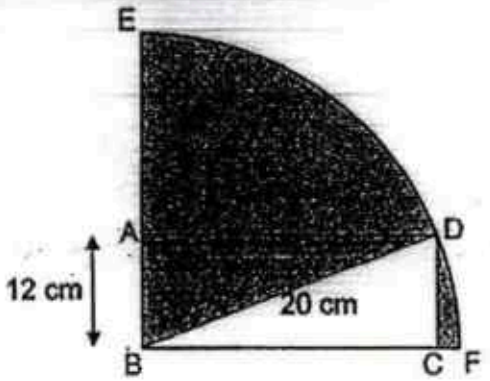
Do not write in this space.

Ans:_____[4]

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16. The figure below is made up of a quadrant EBF and a rectangle ABCD. The rectangle has a perimeter of 56 cm and a breadth of 12 cm. Point D lies on the edge of the quadrant. BD is 20 cm. Find the area of the shaded part. (Take $\pi = 3.14$)

Do not write in this space.



Ans: _____ [5]

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17. Jay started a savings plan by putting a 50¢ coin in money box A and a 20¢ coin in money box B every day. He put only 50¢ coins in box A and only 20¢ coins in box B. On the day he started the savings plan, his mother put in nineteen 20¢ coins in box B.

Do not write in this space.

(a) How much money did Jay's mother put in box B?

(b) What is the total number of coins in both boxes when the amount of money in box A was $1.30 more than the amount of money in box B?

Ans: (a) _____ [1]

(b) _____ [4]

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18. Jonathan had 60 more beads than Karen. Jonathan gave away $\frac{1}{3}$ of his beads and Karen gave away $\frac{3}{4}$ of her beads. The ratio of the number of beads Jonathan had left to the number of beads Karen had left was 4 : 1. How many beads did Jonathan have at first?

Do not write in this space.

Ans: _____ [5]

END OF PAPER.
PLEASE CHECK YOUR WORK CAREFULLY.

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Catholic High School
Preliminary Examination 1 2015
Mathematics
Primary 6

Paper 1

1) 3 2) 2 3) 1 4) 3 5) 1 6) 4 7) 2 8) 2 9) 4 10) 1
11) 2 12) 3 13) 1 14) 3 15) 3
16) 1.17
17) 0.1 x 60 = 6 s
18) 175 - 50 = 125 ml
19)

	Joseph : Kathy
at first	3 : 2
	= 6 : 4
after	3 : 7

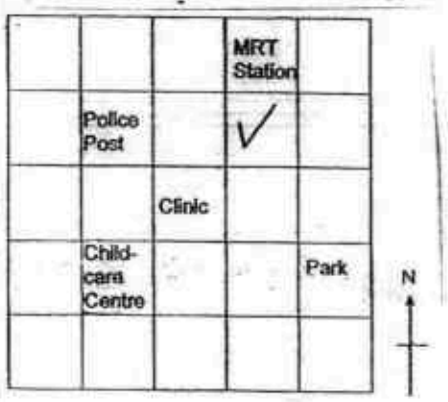
20) 22 45
21) (3/4)/(1/8) = 3/4 x 8 = 6
22) 72/6 = 12
12 x 4 = 48
23) (5k - 1) years
24) 7 cm
25) 55
26) 1+3+9+27 = 40
27) 7π+21
28) 100/60 x 1.20 = $2
29) Angle BEA = 180-20-75 = 85°
Angle AEC = 180-85 = 95°
30) 5 x 5 = 25
25 x 4 = 100
500-100 = 400
400/4 = 100
100/5 = 20

Paper 2

1) Cost of 3 pens = $0.50 x 3 = $1.50
Cost of 1 exercise book = (2d-1.50)/2

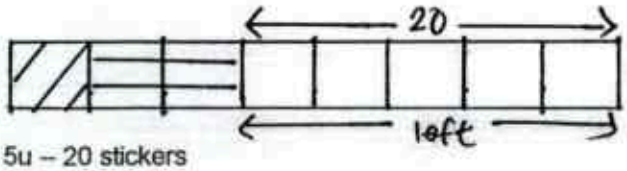
2) DEF = 1 u
BDFA = 9-1 = 8 u
8/4 = 2 u
hence, total area = 6 x 2 + 1 = 13 u
unshaded area = 2 + 2 + 1 = 5 u
Ans: 5/13

3a) The childcare centre is west of the park.

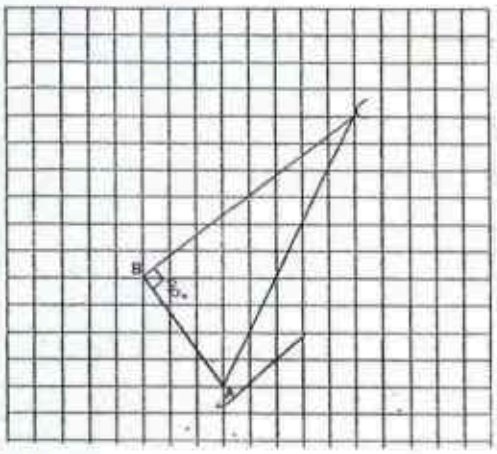


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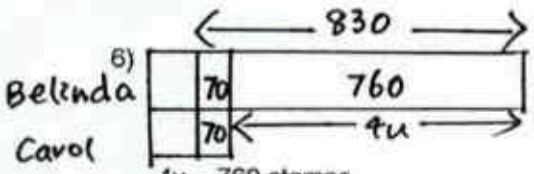
4)



5u – 20 stickers
1u – 20/5 = 4 stickers



6)



4u – 760 stamps
1u – 760/4 =190 stamps
190-70 = 120

7) Angle DAB = 129°
Angle CDA = 51°
Angle CDE = 180-51-51 = 78°
Angle FGC = 78° (Corresponding angles as GF is parallel to DE)

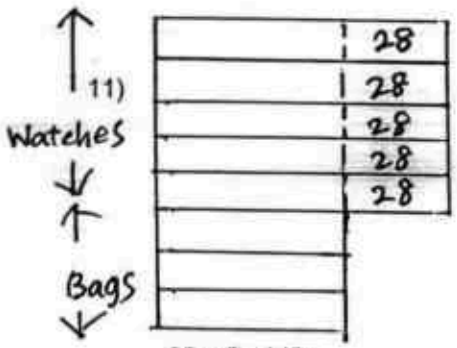
8) In 1 min, A can print 1/10 of the worksheets
In 1 min, B can print 1/15 of the worksheets
hence, 1/10 - 1/15 = 1/30
1u – 40
30u – 30 x 40 = 1200 worksheets

9) $19.20/$1.20 = 16
16/5 = 3 R 1
16+3 = 19

10) Number of guests = 30+50 = 80
Number of sweets = 2 x 80 = 160
Number of chocolates = 80 + 30 = 110
Total = 160 + 110 = 270

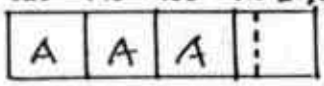
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11)



28 x 5 =140
220 - 140 = 80
80/2 = 40
40 x 8 = 320
320 + 140 = 460

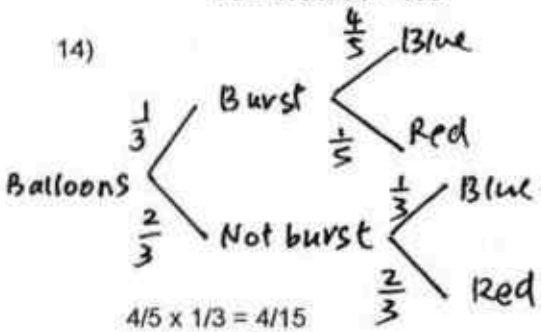
12)



20/100 x 25 = 5
75% - 20% = 55%
55% -- 330
100% -- 100/55 x 330 = 600

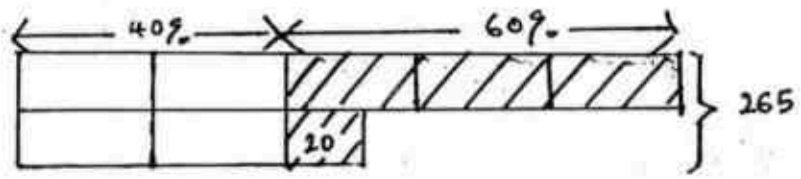
13) Since shaded area of rectangle = 42, the unshaded area of rectangle is also 42.
EB = 3 u & AB = 7 u,
hence, 3u -- 84
7u -- 7/3 x 84 = 196

14)



4/5 x 1/3 = 4/15
1/3 x 2/3 = 2/9
4/15 + 2/9 = 22/45

15)



265 - 20 = 245
245 ÷ 7 = 35
35 x 2 = 70
70 + 20 = 90 kg

16) 56 - (12 x 2) = 32
32 ÷ 2 = 16
1/2 x 16 x 12 = 96
1/4 x 3.14 x 20 x 20 = 314
314 - 96 = 218

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17a) 19 x $0.20 = $3.80

b) $3.80 + $1.30 = $5.10

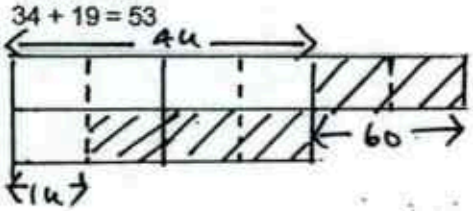
$0.50 - $0.20 = $0.30

$5.10÷$0.30 = 17

17 x 2 = 34

34 + 19 = 53

18)



2u – 60

6u – 6/2 x 60 = 180

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Math Teacher:

RAFFLES GIRLS' PRIMARY SCHOOL
PRELIMINARY EXAMINATION
MATHEMATICS (PAPER 1)
PRIMARY 6

Name: _____ ( )

Form Class: P6 _____

Date: 25 August 2015 **Duration: 50 min**

Your Score (Out of 100 marks)	Parent's Signature Date:
Paper 1 (Out of 40 marks)	
Paper 2 (Out of 60 marks)	
Overall (Out of 100 marks)	

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer **ALL** questions and show all working clearly.
4. **NO** calculator is allowed for this paper.

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SECTION A (20 marks)

Questions **1** to **10** carry 1 mark each. Question **11** to **15** carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade your answer (1, 2, 3 or 4) on the OAS provided. All diagrams are not drawn to scale.

---

1. The value of the digit 5 in 657 841 is _____.

   (1) 500

   (2) 5 000

   (3) 50 000

   (4) 500 000

2. $$\frac{9}{24} = \frac{15}{\boxed{?}}$$

   What is the missing number in the box?

   (1) 18

   (2) 30

   (3) 40

   (4) 48

3. In the numeral 7.539, the digit '3' stands for _____.

   (1) 3 tens

   (2) 3 tenths

   (3) 3 hundredths

   (4) 3 thousandths

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4. Express 4.032 litres in millilitres.

(1) 0.4032 ml

(2) 40.32 ml

(3) 403.2 ml

(4) 4032 ml

5. The length of a rectangle is three times as long as its breadth.
Find the perimeter of the rectangle given that the length is 6 cm long.

(1) 12 cm

(2) 16 cm

(3) 24 cm

(4) 48 cm

6. A number becomes 50 000 when rounded off to the nearest thousand.
Which one of the following could the number be?

(1) 49 187

(2) 49 783

(3) 50 978

(4) 51 879

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7. A tank was completely filled with water. After pouring out 210 ml of water from the tank, it was $\frac{6}{7}$ filled with water. What was the capacity of the tank?

(1) 245 ml

(2) 1050 ml

(3) 1260 ml

(4) 1470 ml

8. Express $3\frac{1}{20}$ as a decimal.

(1) 3.01

(2) 3.05

(3) 3.1

(4) 3.5

9. An examination lasted for 105 minutes. If the examination ended at 11 a.m., what time did it start?

(1) 9.15 a.m.

(2) 9.55 a.m.

(3) 12.05 p.m.

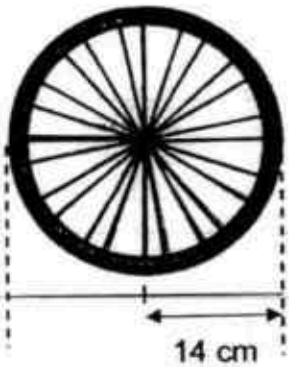
(4) 12.45 p.m.

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10. The radius of a wheel is 14 cm.

What is the distance that it will cover if it makes 10 turns?

(Take π as $\frac{22}{7}$)



(1) 440 cm

(2) 880 cm

(3) 2464 cm

(4) 6160 cm

11. There were 650 people at a carnival. 60% of them were adults and the rest of them were children. How many children were there at the carnival?

(1) 104

(2) 156

(3) 260

(4) 390

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12. The pie chart below shows how Mary spent her money on Sunday.
She spent $225 more on clothes than on food.
How much did she spend on shoes?



(1) $ 125

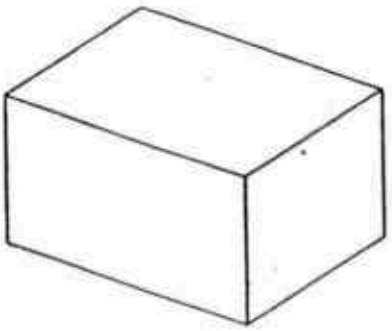
(2) $ 300

(3) $ 375

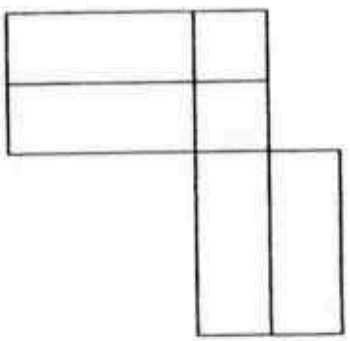
(4) $ 500

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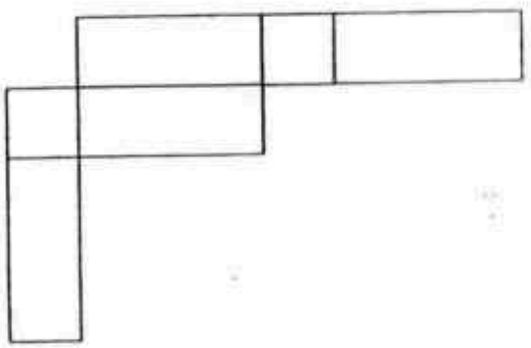
13. The figure below shows a cuboid.



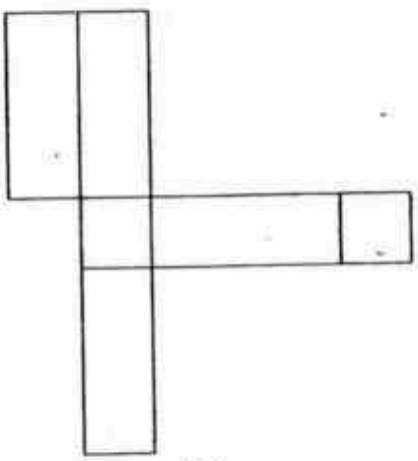
Which one of the following is a net of the cuboid?



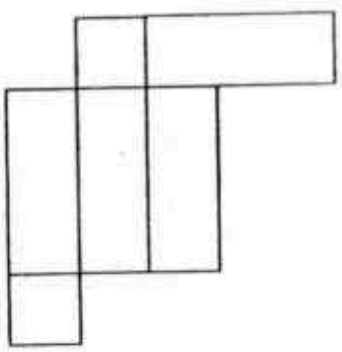
(1)



(2)



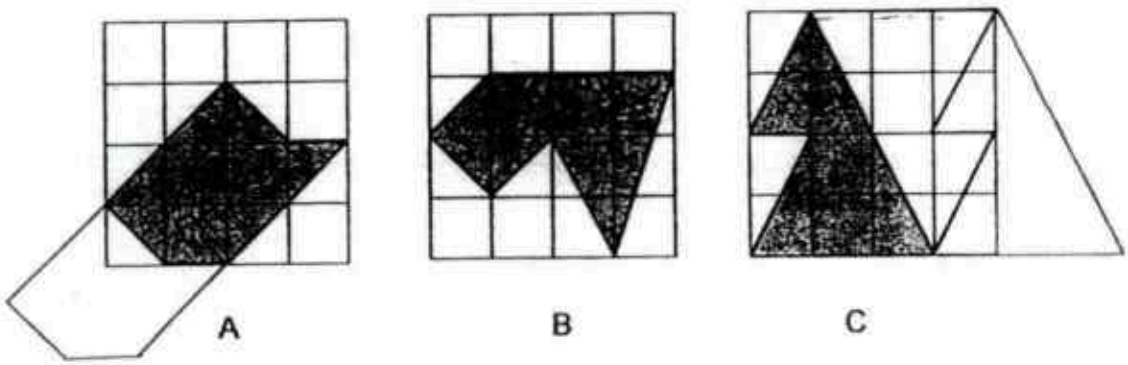
(3)



(4)

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14. There are 3 unit shapes below. Which one of the shapes below can be tessellated?



A B C

(1) A only

(2) B only

(3) A and C only

(4) B and C only

15. Mr Seah owns a farm in Lim Chu Kang. In his farm, 30 chickens can lay 63 eggs in 7 days on average. How many eggs will he expect 10 chickens to lay in 10 days on average?

(1) 9

(2) 11

(3) 30

(4) 33

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SECTION B (20 marks)

Questions **16** to **25** carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. Answers in fractions or ratio must be expressed in the simplest form.

16. Arrange the following numbers from the smallest to the largest.

84 326 , 83 264 , 86 432 , 86 342

Ans: _____ , _____ , _____ , _____

17. What is the missing number in the box?

$\boxed{?} \times \frac{1}{8} = \frac{3}{4} \div 2$

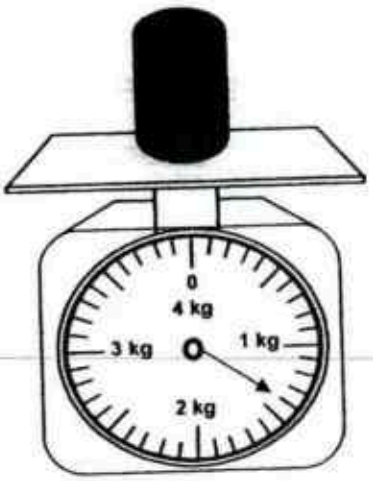
Ans: _____

18. Find the value of 0.2 x 90.

Ans: _____

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19. The picture below shows the mass of a cylinder. What is the mass of the cylinder in kilograms and grams?



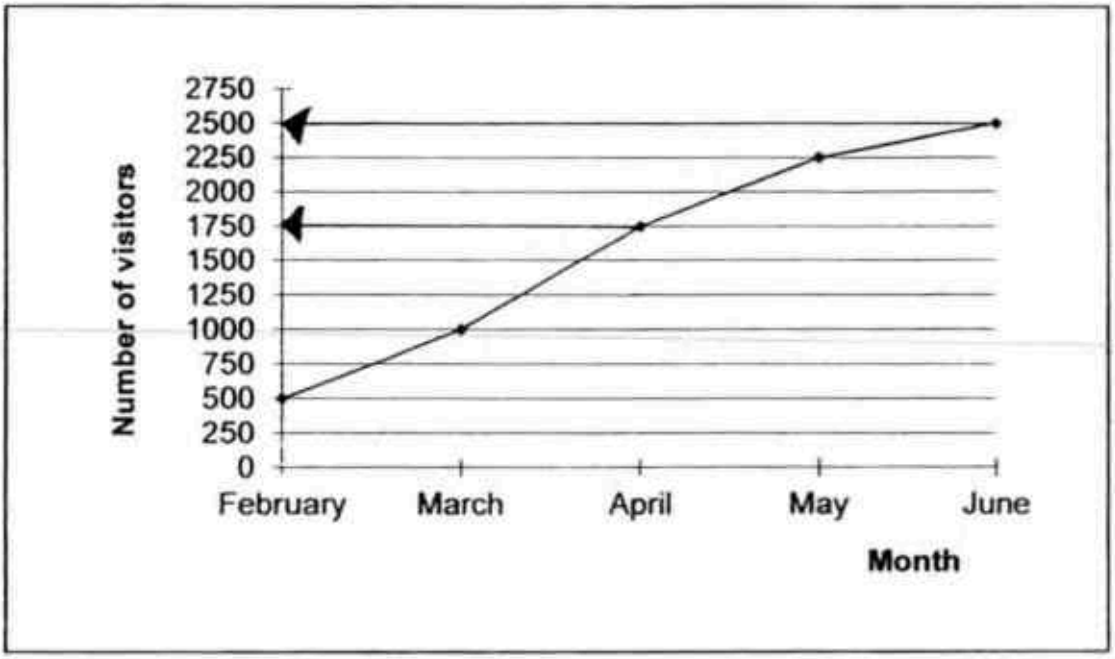
Ans: _____ kg _____ g

20. The length of a cube is 9 cm. What is the volume of the cube?

Ans: _____ cm^3

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21. The line graph below shows the number of visitors in a shopping mall from February to June.



What is the increase in the number of visitors from April to June?

Ans: _____

22. Express $2 as a percentage of 40-cents.

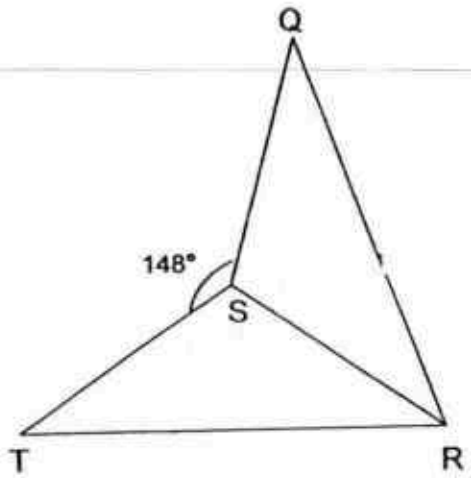
Ans: _____%

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23. Express 8.25 as a fraction in its simplest form.

Ans: _____

24. The figure below is made up of two identical triangles, TSR and QSR.
$\angle QST = 148°$
Find $\angle QSR$.



Ans: _____°

25. Danika's age is 4 times of Eddy's age and Eddy's age is $\frac{3}{7}$ of Fandi's age. Find the ratio of Danika's age to Eddy's age to Fandi's age. Express your answer in its simplest form.

Ans: _____

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Questions **26** to **30** carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the space provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. Answers in fractions or ratio must be expressed in the simplest form.

26.

MAGIC SHOW

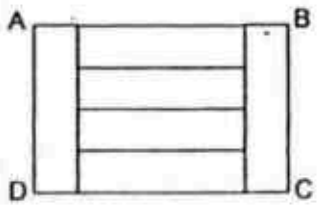
Tickets at $20 each

$3 discount for every 4 tickets bought

Jacqueline is buying 6 tickets for the magic show. How much does she need to pay?

Ans: $ _____

27. Rectangle ABCD is divided into 6 identical small rectangles as shown below. Given that the perimeter of rectangle ABCD is 80 cm, find the area of one small rectangle.



Ans: _____ cm^2

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28. The table below shows the charges for renting a bicycle

First hour	$\$2k$
Every subsequent hour	$\$(k + 3)$

Rachel rented one bicycle for 3 hours. How much did she pay for the rental? Give your answer in terms of k.

Ans: \$ _____

29. Every month, Gary saved \$320 of his salary and spent the rest. In December, his spending increased by 4% and he only managed to save \$240. How much was his salary?

Ans: \$ _____

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30. Tina had 22 shelves with equal number of books on each shelf. She removed all the books from 12 of the shelves and placed them equally onto the remaining shelves. She found that these remaining shelves had 42 more books each. How many books were on each shelf at first?

Ans: _____

-End of Paper-

Please check your work carefully ☺

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Math Teacher:

RAFFLES GIRLS' PRIMARY SCHOOL
PRELIMINARY EXAMINATION
MATHEMATICS (PAPER 2)
PRIMARY 6

Name: _____ ( )

Form class: P6 _____

Date: 25 August 2015 **Duration: 1 h 40 min**

Your Score (Out of 60 marks)	

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer **ALL** questions and show all working clearly.
4. The use of calculator is allowed for this paper.

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Questions **1** to **5** carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

---

1. There were 132*p* marbles in a box. The marbles are divided between Kathy and Sandy in the ratio of 4: 7.
   Express the number of marbles Sandy received in terms of *p*.

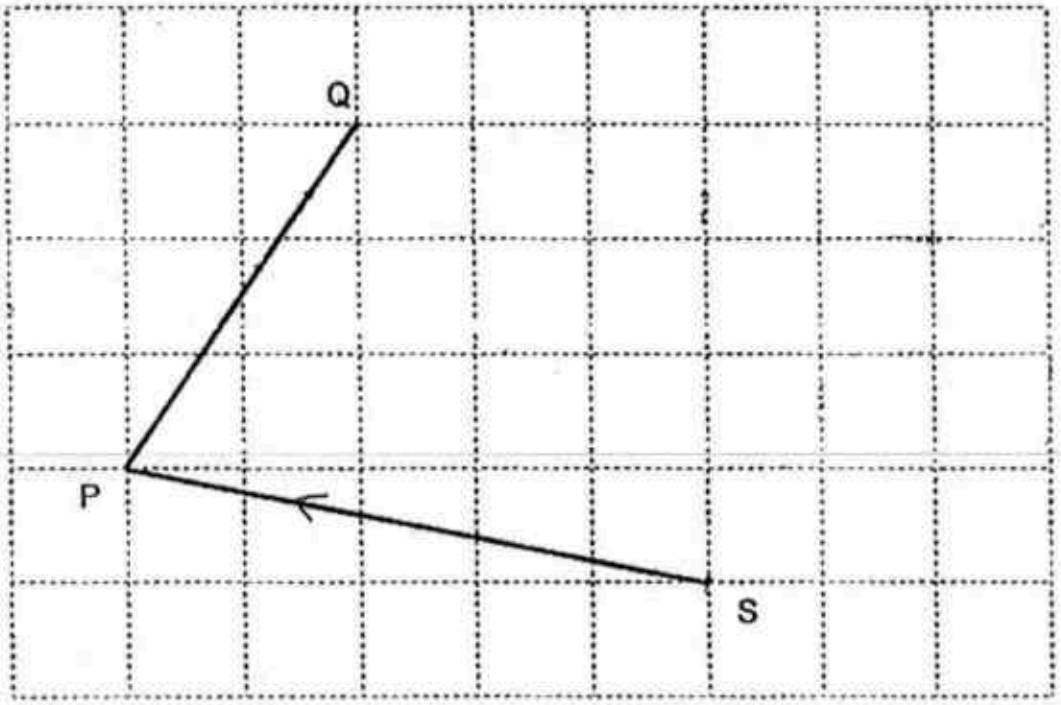
Ans: _____ [2]

2. There were 950 visitors at an art exhibition on Saturday. The number of visitors increased by 20% on Sunday.
   Find the number of visitors at the art exhibition on Sunday.

Ans: _____ [2]

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3. PQ and PS are two sides of a parallelogram PQRS. Complete the parallelogram by drawing the other two sides in the square grid below. [2]



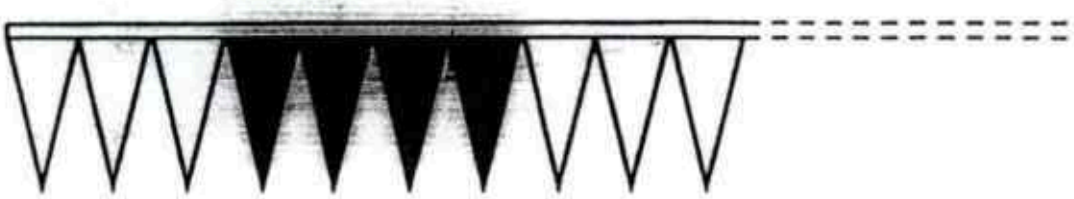
4. Arrange the following fractions from the largest to the smallest.

$\frac{64}{100}$, $\frac{5}{7}$, $\frac{11}{20}$, $\frac{3}{5}$

Ans: _____, _____, _____, _____ [2]

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5. In celebration of National Day, a school stage is decorated with a banner made up of 335 red and white triangles. One end of the banner is shown below. There are 4 red triangles between every 3 white triangles.
How many red triangles are there on the banner?



Ans: _____ [2]

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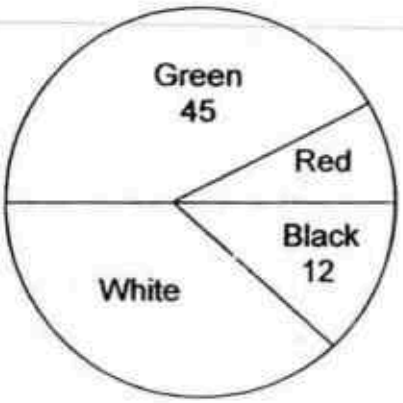
For questions **6** to **18**, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (50 marks)

---

6. The pie chart shows the number of marbles in a box.

$\frac{1}{2}$ of the marbles are green and red.

The number of black marbles is $\frac{2}{7}$ the number of white marbles.



Express the number of red marbles as a fraction of the total number of marbles in the box. Leave your answer in the simplest form.

Ans: _____ [3]

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7. One pair of jeans and 3 identical shirts cost \$484. The pair of jeans costs \$3m more than a shirt.

(a) Express the cost of a shirt in terms of m.

(b) Given that $m = 16$, find the cost of a pair of jeans.

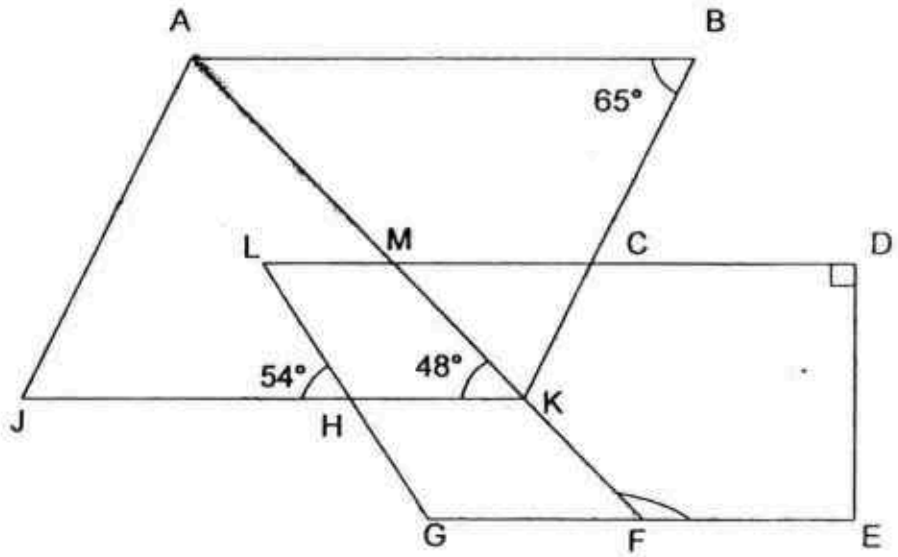
Ans: (a) _____ [1]

(b) _____ [2]

8. In the diagram below, ABKJ is a parallelogram, LDEG is a trapezium and line AF is a straight line. Given that LD//JK, $\angle ABC = 65°$, $\angle MKH = 48°$, $\angle LHJ = 54°$. Find

(a) $\angle JAK$

(b) $\angle KFE$



Ans: (a) _____ [1]

(b) _____ [2]

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9 There are 540 children in School A and School B. $\frac{2}{5}$ of the children in School A and $\frac{1}{4}$ of the children in School B are girls. Given that there is an equal number of boys in both School A and School B, how many girls are there in School A?

Ans: _____ [3]

10. Mrs Goh had some $2 notes and some $10 notes. She had 95 notes altogether. When she exchanged all the $10 notes for $2 notes, she found that she had 175 notes. How many $2 notes did she have at first?

Ans: _____ [3]

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11. Maria, Nelly and Olivia bought a present for their mother. The ratio of the amount paid by Maria to the total amount paid by Nelly and Olivia was 1 : 4. The amount paid by Nelly to the total amount paid by Maria and Olivia was 3 : 5. If Olivia paid $90 more than Nelly, how much is the cost of the present?

Ans: _____ [4]

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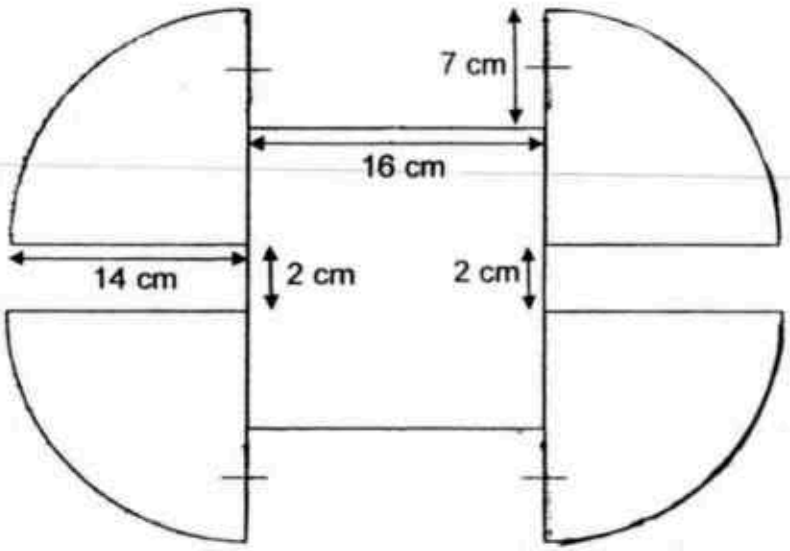
12. The figure below is made up of 4 identical quadrants and a square.

Find:

a) the perimeter of the figure.

b) the area of the figure.

(Take π as $\frac{22}{7}$)



Ans: (a) _____ [3]

(b) _____ [2]

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13. There were 330 green and blue marbles in a bag. $\frac{1}{2}$ of the green marbles and $\frac{3}{4}$ of the blue marbles were then taken out by Lisa. In the end, there were 90 green and blue marbles left in the bag. How many of the marbles in the bag were blue at first?

Ans: _____ [4]

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14. A tank measuring 80 cm by 50 cm by 60 cm was empty at first.
Water from a tap started to fill the tank at a rate of 1.5 litres per minute.
When the tank was $\frac{5}{8}$ full, a crack appeared at the base of the container.
Water began to leak from the crack at a rate of 500 cm^3 per minute.
What was the total time taken for the whole tank to be completely filled with water?

Ans: _____ [4]

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15. At 7.30 a.m., Kimberly left Town P for Town Q driving at a speed of 75 km/h. Half an hour later, Brian also left Town P for Town Q driving at a certain speed. Both of them did not change their speed throughout the journey. At 10.30 a.m., both of them passed a post office that was 150 km away from Town Q. At what time did Brian reach Town Q?

Ans: _____ [4]

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16. In Figure 1, Tank A is completely filled with water and Tank B is empty. Water is poured from Tank A into Tank B without spilling.

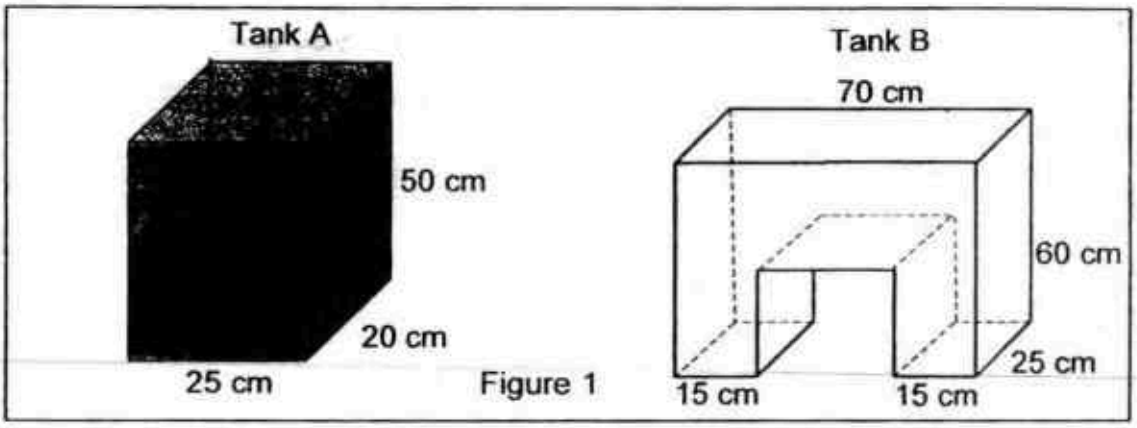


Figure 1

The heights of the water level in the two tanks are now equal as shown in Figure 2.

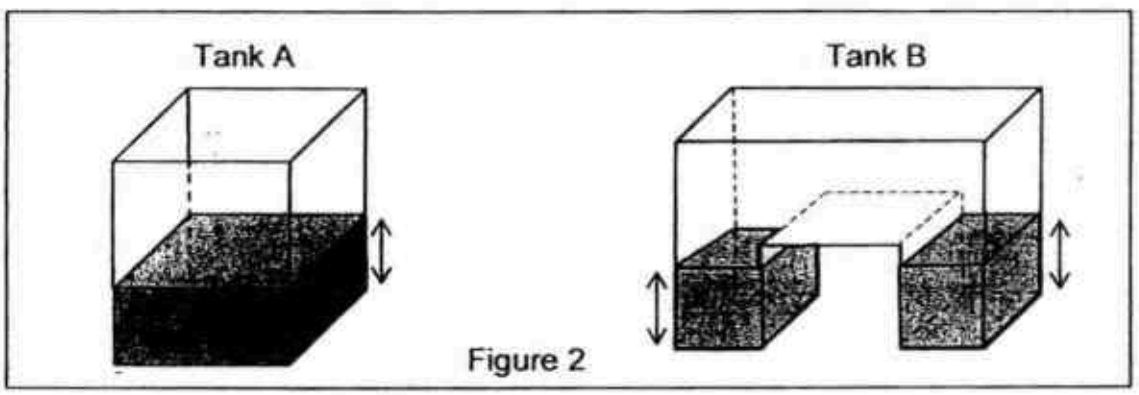


Figure 2

What is the height of the water level in Tank A in Figure 2?

Ans: _____ [5]

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17. Kelly spent a total of $384.30 on a dress and a handbag during a sale. She spent $166.70 more on the handbag than on the dress.

(a) How much did she spend on the handbag?

(b) The total discount given for the two items was $33.70 She was given a 5% discount for the handbag. What was the percentage discount given for the dress?

Ans: (a) _____ [2]

(b) _____ [3]



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18. Dave had some 50¢ coins. Wayne had some $1 coins. Dave gave 50% of his coins to Wayne and Wayne gave 50% of his coins to Dave. Wayne used some of the 50¢ coins to buy a book that cost $5. Dave used some of his $1 coins to buy a bag that cost $16. After that the ratio of the number of 50¢ coins to $1 coin Dave had was 1 : 2 and the number of 50¢ coins to the number of $1 coins Wayne had was 1 : 5.

How much did Dave have at first?

Ans: _____ [4]

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RAFFLES GIRLS' PRIMARY SCHOOL
PRELIMINARY EXAMINATION 2015
MATHEMATICS PRIMARY 6
PAPER 1

1) 3 2) 3 3) 3 4) 4 5) 2 6) 2 7) 4 8) 2 9) 1 10) 2 11) 3 12) 1
13) 3 14) 3 15) 3

16) 83264, 84326, 86342, 86432

17) 3

18) 18

19) 1kg 400g

20) 729 cubic cm

21) 2500-1750 = 750

22) 200/40x100% = 500%

23) 8/1/4

24) 360°-148° = 212°
212°÷2 = 106°

25) 12 : 3 : 7

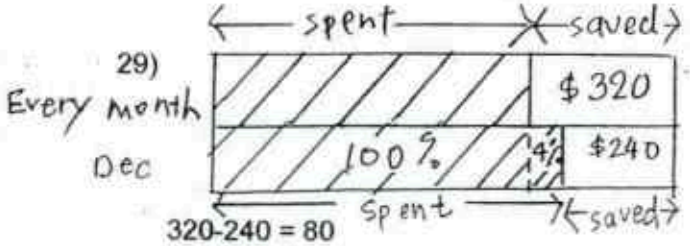
26) 20x4 = 80
80-3 = 77
77+20 = 97
97+20 = 117
Ans : $117

27) 4B = 1L
4L+4B = 80
1L+1B = 20
4B+1B = 20
5B = 20
1B = 20÷5 = 4
1L = 4x4 = 16
Area of rectangle = 4cmx16cm = 64 sq. cm

28) 2k+2x(k+3) = 2k+2k+6 = $(4k+6)

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29)



320-240 = 80
4% – $80
100% = 100/4x$80 = $2000
$(2000+320) = $2320

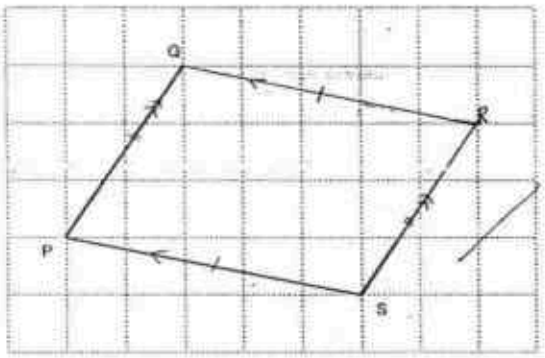
30) 22-12 = 10
10x42 = 420
420÷12 = 35 books

PAPER 2

1) 11u -- 132p
7u -- 7/11x132p = 84p marbles

2) 20/100x950 = 190
190+950 = 1140 visitors

3)



4) 5/7, 64/100, 3/5, 11/20.

5) 3+4 = 7
335÷7 = 47R6
47x4 = 188
188+3 = 191 red triangles

6) 42+12 = 54
54-45 = 9
54x2 = 108
9/108 = 1/12

7a) $(484-3m)/4
b) 16x3 = 48
484-48 = 436
436÷4 = 109
109+48 = $157

8a) Angle JAK = 180°-65°-48° = 67°
b) Angle GFA = 48°
Angle KFE = 180°-48° = 132°

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9) 3/5 A = 3/4 B
9u -- 540
2u -- 2/9x540 = 120 girls

10) $175x2 = $350
$10x95 = $950
$950-$350 = $600
$10-$2 = $8
$600÷$8 = 75 $2 notes

11) M : N+O total
1 : 4 5
N : M+O
3 : 5 8
---
8 : 32 40
15 : 25 40
M -- 8u
N -- 15u
O -- 32-15 = 17u
2u -- $90
40 -- 40/2x$90 = $1800

12) 16cmx4 = 64 cm
14cmx4 = 56 cm
2x22/7x14 = 88 cm
a) 64+56+88 = 208 cm
22/7x14x14 = 616 sq.cm
16x16 = 256 sq.cm
b) 616+256 = 872 sq.cm

13) 2g+4b = 330
1g+1b = 90
2g+2b = 180
difference, 2b = 330-180 = 150
4b = 150x2 = 300 blue marbles

14) 3/8x80x5x60 = 90000 cubic cm
1500-500 = 1000 cubic cm
90000÷1000 = 90 min
90000÷3x5 = 150000 cubic cm
150000÷1500 = 100 min
100+90 = 190 min

15) 1/2x75 = 37.5
3x75 = 225
2/1/2h -- 225 km
1h -- 1÷2/1/2x225 = 90 km
225+150 = 375 km
375÷90 = 4/1/6h = 4h 10min
4h 10min after 8 a.m. is 12.10 p.m.

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16) 50x20x25 = 25000 cubic cm
25x20+15x25x2 = 1250 sq.cm
height = volume/base area = 25000÷1250 = 20 cm

17) $384.30-$166.70 = $217.60
$217.60÷2 = $108.80
a) 108.80+$166.70 = $275.50
95% -- $275.50
5% -- 5/95x$275.50 = $14.50
$33.70-$14.50 = $19.20
$108.80+$19.20 = $128
b) 19.20/128x100% = 15%

18) 2u+16 = 5p
1u-10 = 1p
5u-15 = 5p
5u-50 = 2u+16
3u = 66
1u = 66/3 = 22
22x2 = 44
44x$0.50 = $22

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NANYANG PRIMARY SCHOOL

PRELIMINARY EXAMINATION 2015

PRIMARY 6

MATHEMATICS

PAPER 1

DURATION: 50 MINUTES

Booklet A	/ 20
Booklet B	/ 20

Paper 1 Total: / 40

Name: _____ ( )

Class: Primary 6 ( )

Date: _____

Any query on marks awarded should be raised by **8th September 2015**. We seek your understanding in this matter as any delay in the confirmation of marks will lead to delays in the generation of results.

Parent's Signature: _____

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PAPER 1 (BOOKLET A)

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

(20 marks)

---

1 Which one of the following numbers is greater than 320 tens?

(1) 32

(2) 320

(3) 3200

(4) 32 000

2 Subtract 97 from the sum of 658 and 143.

(1) 612

(2) 702

(3) 704

(4) 898

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3 How many common factors are there in 16 and 24?

(1) 12

(2) 14

(3) 3

(4) 4

4 Express 40 tenths and 55 thousandths as a decimal.

(1) 0.405

(2) 0.455

(3) 4.055

(4) 40.55

5 3 similar shirts cost $206.70. What is the cost of 1 such shirt?

(1) $70.00

(2) $68.90

(3) $66.90

(4) $60.90

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6 The volume of a cuboid with a height of 7 m is 252 m^3. All the sides of the cuboid are whole numbers. Which one of the following is **NOT** a possible length of the cuboid?

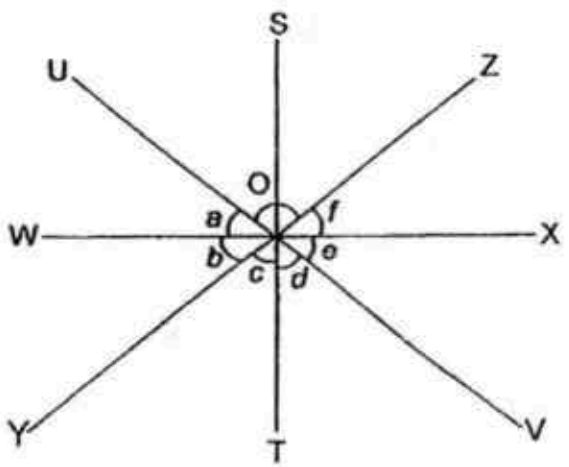
(1) 9 m

(2) 11 m

(3) 18 m

(4) 36 m

7 In the figure below, ST, UV, WX and YZ are straight lines. Which of the following angles, when added up, have the same value as ∠UOZ?



(1) ∠a and ∠b

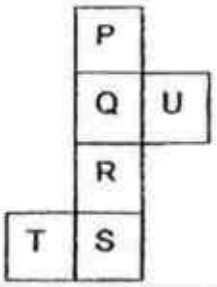
(2) ∠c and ∠d

(3) ∠b, ∠c and ∠d

(4) ∠c, ∠d and ∠e

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8 The figure below shows the net of a cube. Which of the following 2 faces lie opposite each other when the net is folded into a cube?



(1) P and Q

(2) P and S

(3) R and U

(4) T and U

9 Find the value of $2 \times 5y + 3y \times 0$, when $y = 3$.

(1) 0

(2) 13

(3) 30

(4) 39

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10 The usual price of a fan was $240. During a sale, it was sold at a discount of 20%. How much did the fan cost during the sale?

(1) $40

(2) $48

(3) $192

(4) $200

11 Tap A took 20 minutes to fill a pool to the brim. Tap B took 50 minutes to fill the same pool to its brim. Tap A was turned on for 10 minutes and then turned off. How long did Tap B take to fill the rest of the pool to the brim?

(1) 15 min

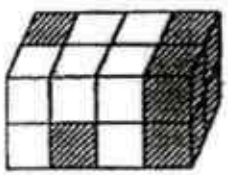
(2) 20 min

(3) 25 min

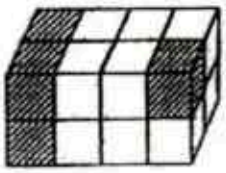
(4) 30 min

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12 The diagrams below show the front view and the back view of a cuboid. The cuboid is made up of a total of 16 white and shaded 1-cm cubes. What is the total volume of the shaded cubes?



Front View



Back View

(1) 6 cm^3

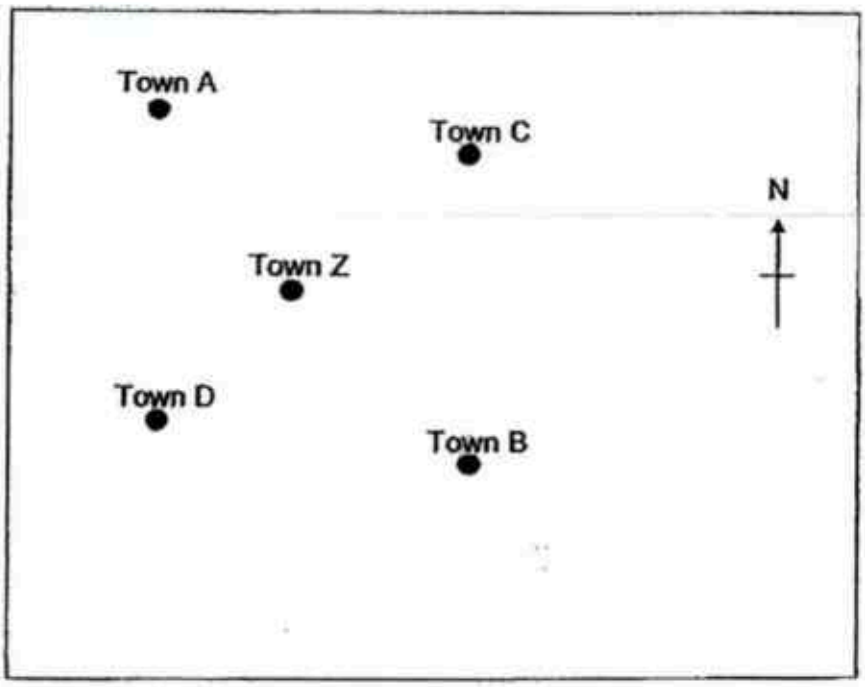
(2) 10 cm^3

(3) 11 cm^3

(4) 16 cm^3

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13 Ameer had to deliver goods to 2 towns from Town Z. He was given a map and the following instructions:
Drive southwest from Town Z to the first town to do the first delivery.
From the first town, drive north towards the next town to do the final delivery.



Which town did Ameer do the final delivery?

(1) Town A

(2) Town B

(3) Town C

(4) Town D

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14 The pie chart below shows the amount that Josephine spent on the different items on her trip. She spent the same amount on accommodation and airfare. She spent a total of $1600.



How much did Josephine spend on her airfare and accommodation?

(1) $200

(2) $300

(3) $400

(4) $600

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15 There is an equal number of pupils in 6A and 6B. The ratio of the number of boys to the number of girls in 6A is 2 : 1. The ratio of the number of boys to the number of girls in 6B is 4 : 11. What fraction of the pupils in the 2 classes are boys?

(1) $\frac{6}{18}$

(2) $\frac{7}{15}$

(3) $\frac{8}{15}$

(4) $\frac{14}{15}$

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Name: _____ ( ) Class: Pr 6 ( )

P6 Prelim 2015

PAPER 1 (BOOKLET B)

Questions **16** to **25** carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

---

16 Find the value of 26×108

Ans: _____

---

17 $\frac{3}{4} + \frac{3}{4} + \frac{3}{4} = 1 + \square \times \frac{1}{4}$

What is the missing number in the box?

Ans: _____

---

18 Sally uses $\frac{3}{2}$ cups of sugar to make a cake. How many cups of sugar will she use to make 5 such cakes?

Ans: _____

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19 Tom's mass is 48.54 kg. Round off his mass to 1 decimal place.

Ans: _____ kg

---

20 A plane took 4 h 30 min to fly from Singapore to Shanghai. It left Singapore at 7.55 a.m.. At what time did the plane arrive at Shanghai?

Ans: _____ p.m.

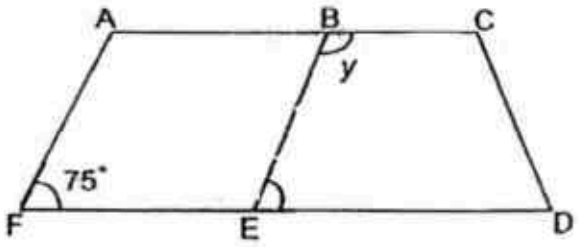
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21 What is 3005 g in kg?

Ans: _____ kg

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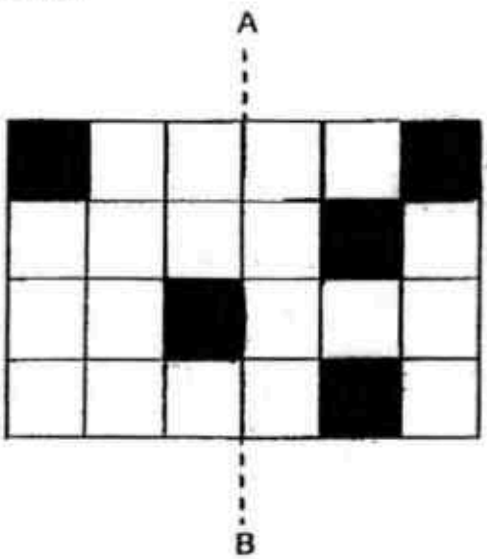
22 In the figure below, ABEF is a parallelogram and BCDE is a trapezium. Given that $\angle AFE = 75^\circ$, find $\angle y$.



Ans: _____ °

---

23 In the figure below, AB is the line of symmetry. Shade 3 more squares to make it symmetrical.



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24 The angles in a four-sided figure are in the ratio 1 : 2 : 3 : 4. Find the value of the smallest angle in the figure.

Ans: _____

25 Adam took 20 min to complete a 8-km race. Find his average running speed in m/min.

Ans: _____ m/min

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Questions **26** to **30** carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

---

26 The product of two fractions is $\frac{3}{8}$. One of the fractions is $\frac{1}{2}$. What is the other fraction?

Ans: _____

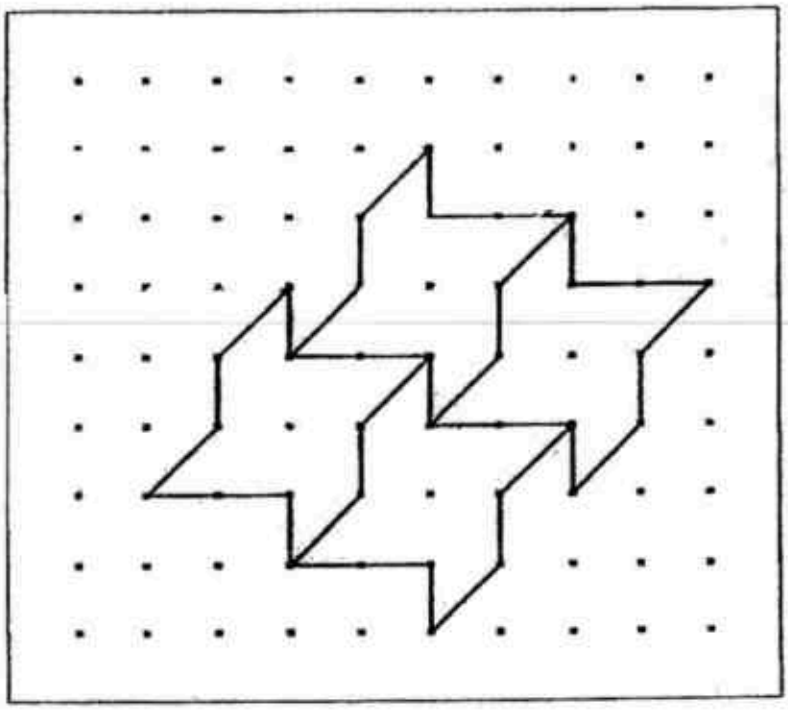
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27 The length of a rectangle is 6 times its breadth. Given that the area of the rectangle is 2400 cm^2, find its breadth.

Ans: _____ cm

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28 In the figure below; extend the tessellation by drawing 1 more unit shape in the space provided within the box.



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29 Participants of a spelling bee contest must obtain at least a certain score in the first round to qualify for the second round. There were 200 participants in the first round. The table below shows the bands of score obtained by the participants.

Band of Score	Number of Participants
Below 10	20
11 - 20	35
21 – 30	15
31 – 40	40
41 – 50	60
Above 51	30

35% of the participants did not qualify for the second round. From the table above, what was the lowest score a participant had obtained to qualify for the second round?

Ans: _____

30 Bala is $7n$ years old now. In 20 years' time, Bala will be 3 times as old as Ali. Find Ali's age in 20 years' time.

Ans: _____

++++END OF PAPER++++

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NANYANG PRIMARY SCHOOL

PRELIMINARY EXAMINATION 2015

PRIMARY 6

MATHEMATICS

PAPER 2

DURATION: 1 HOUR 40 MINUTES

Paper 2 Total	**/ 60**
GRAND TOTAL	**/ 100**

Name: _____

Class: Primary 6 ( )

Date: _____

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Parent's Signature: _____

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PAPER 2

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

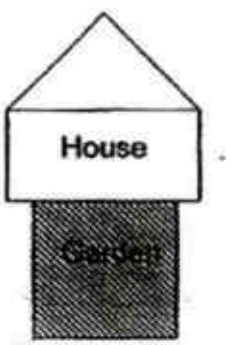
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1 Fill in the boxes with +, −, × and/or ÷ to make the number statement true. Use each operation only once.

(6 ☐ 6) ☐ 6 ☐ 6 = 66

---

2 Alice had a square garden in front of her house as shown in the figure below. She used a total of 24 m of fence to enclose the 3 sides of the garden. What was the area of the garden?



Ans: _____ m^2

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3 I think of a number and multiply it by 10 to get a new number. The sum of the original number and the new number is 253. What is the original number?

Ans: _____

4 Tank A contains some water with a water level of 51 cm. Tank B is empty. The length of Tank A is half that of Tank B and the breadth of Tank B is three times that of Tank A. What is the water level in Tank B if all the water in Tank A is poured into Tank B?

Ans: _____ cm

5 The average mass of a group of boys was 45 kg. When the nurse measured and recorded the mass of one of the boys, she wrongly recorded his mass as 42 kg when it should have been 24 kg. As a result, she calculated the average mass as 47 kg. How many boys were there in the group?

_____

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For questions **6** to **18**, show your working clearly in the space provided for each question and write your answers in the spaces provided.
The number of marks available is shown in brackets [ ] at the end of each question or part-question.

(50 marks)

---

6 There were 24 passengers on a bus. The ratio of the number of men to the number of women to the number of children was 3 : 2 : 1. At the next stop, 10 more people boarded the bus. 6 of them were men, 2 of them were women and the rest were children. What was the percentage increase of children on the bus?

Ans: _____ [3]

---

7 Ying and Jones had some money each. The amount of money that Ying had was $\frac{1}{4}$ the amount of money Jones had. They wanted to buy a watch each but Ying was short of $26.60 and Jones was short of $15.20. How much was the watch?

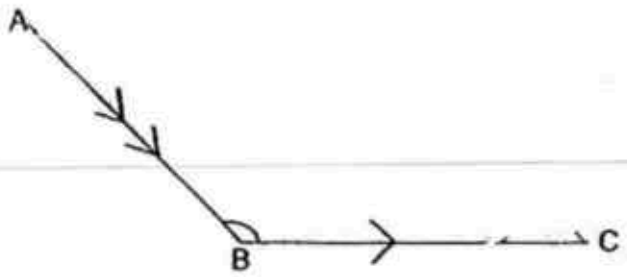
Ans: _____ [3]

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8 In the figure below, AB and BC are two sides of a parallelogram ABCD.

(a) Measure and write down the value of ∠ABC.

(b) Complete the drawing of the parallelogram. [2]



Ans : (a) _____ [1]

---

9 Irfan bought some tarts and pies for $17.60. Each tart cost $0.80 and each pie cost $1.20. Given that 80% of what she bought were tarts, how many more tarts than pies did he buy?

Ans: _____ [3]

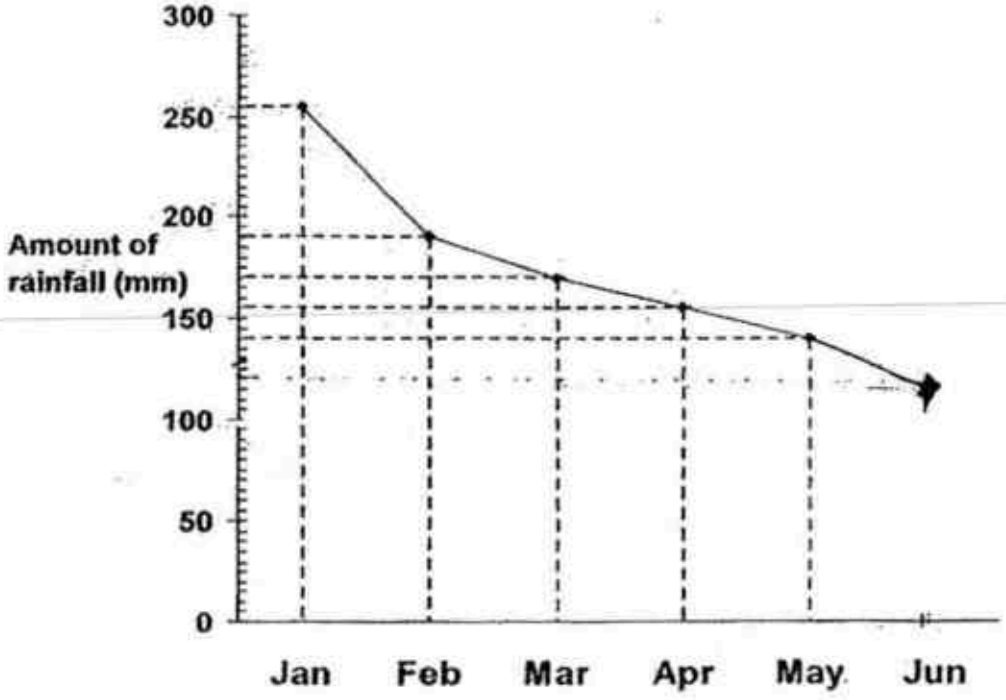
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10 An express train left Town P for Town Q. At the same time, a normal train left Town Q for Town P. The average speed of the express train was 90 km/h more than that of the normal train. The express train and normal train took 4 hours and 10 hours to reach their destinations respectively. Find the average speed of the express train.

Ans: _____ [3]

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11 The line graph below shows the amount of rain collected in a town from January to June.



(a) How many percent more rain was collected in January than in March?

Ans : (a) _____ [2]

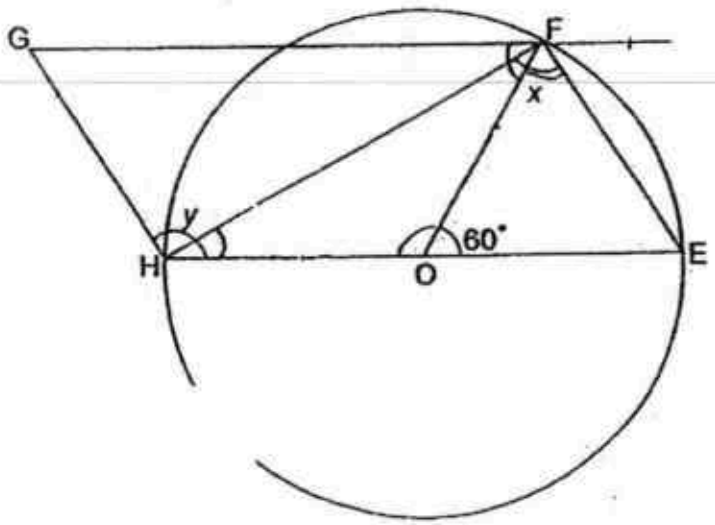
(b) The ratio of the amount of rain collected in May to the amount of rain collected in June was 7 : 6. How much rain was collected in June? Complete the line graph above to show the amount of rain collected in June. [2]

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12 In the figure below which is not drawn to scale, EFGH is a parallelogram. O is the centre of the circle.
Find

(a) $\angle x$

(b) $\angle y$



Ans: (a) _____ [2]

(b) _____ [2]

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13 Figure 1 below is formed by a rectangular box measuring 38 cm by 15 cm and 2 identical white balls with diameters 7 cm. The two identical white balls are fixed to the box at a point. Ball A, which is the same size as the 2 identical white balls, rolls anti-clockwise along the sides of Figure 1 as shown in Figure 2. Find the distance that Ball A has rolled along Figure 1 when it returns back to its original position. (Take $\pi = 3.14$)

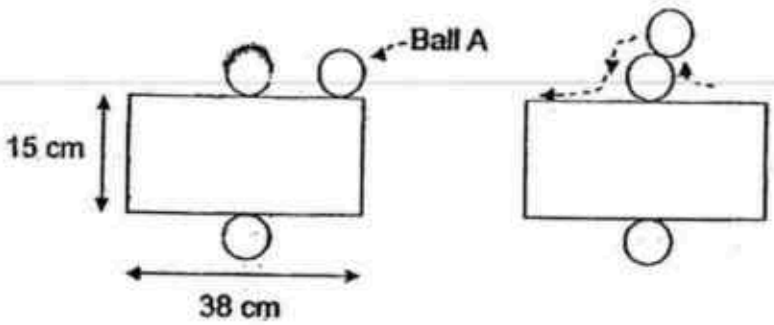


Figure 1

Figure 2

Ans: _____ [4]

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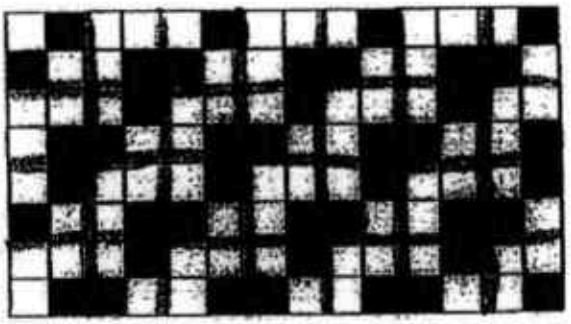
14 Mr. Yong uses two different square tiles, Tile A and Tile B, to tile the floor of his of his room. Both tiles are made up of 4 small squares.


Tile A


Tile B

He lays the tiles alternately as shown in the diagram below. The first four rows of the tiled floor are shown below:

Row1
Row2
Row3
Row4



(a) Which tile does he use for the first tile in Row 10, Tile A or Tile B?

(b) He uses 105 tiles in all. How many black squares are there on his floor?

Ans: (a) _____ [1]

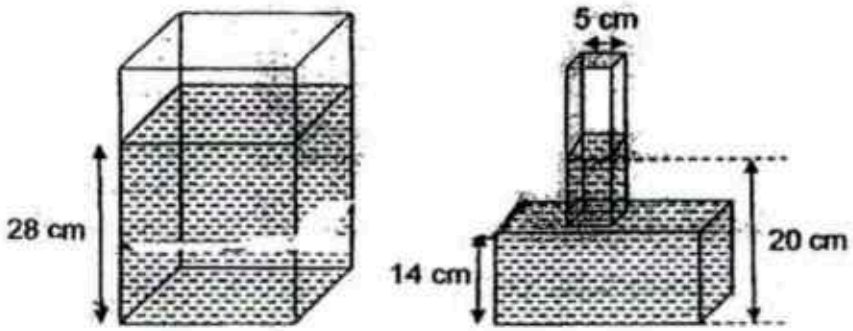
(b) _____ [3]

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15 Tank A and Tank B contain some water. Tank A, with a base area of 756.25 cm², has a water level of 28 cm. Tank B is made up of a cuboid with a rectangular base and a cuboid with a square base. The water level in Tank B is 20 cm.

(a) What is the volume of water in Tank A when the water level is at 14 cm?

(b) Some water is poured from Tank A to Tank B so that the water levels in both Tank A and B are the same. What is the height of the water level in Tank B after that?



Tank B

Ans: (a) _____ [1]

(b) _____ [3]

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16 Donna had some candies. She kept half of the number of candies plus 3 candies. She gave the remaining candies to Jane. Jane ate $\frac{1}{3}$ of the candies plus 4 candies. Then Jane gave the remaining candies to Kate. Kate ate $\frac{1}{4}$ of the candies and had 42 candies left. How many candies did Donna have at first?

Ans: _____ [5]

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from hall B

17 On Monday, there were 280 fewer chairs in Hall A than in Hall B. On Tuesday, 0.25 of the chairs were moved ~~from Hall B~~ to Hall A. On Wednesday, 0.2 of the chairs in Hall A were moved back to Hall B. On Thursday, half of the chairs in Hall B were moved back again to Hall A. In the end, there were 520 more chairs in Hall A than Hall B. How many chairs were there in Hall B at first?

Ans: _____ [5]

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18 Steve, Mark and Ryan took their father out for a meal. Steve had $40 more than Mark. If Steve paid for the meal, the amount of money that Steve, Mark and Ryan left will be in the ratio 3 : 8 : 9 respectively. If Ryan paid for the meal, the amount of money Steve, Mark and Ryan left would be in the ratio 5 : 4 : 1 respectively. If Mark paid for the meal, the amount of money Steve, Mark and Ryan left would be in the ratio 10 : 1 : 9 respectively. How much did the meal cost?

Answer: _____ [5]

++++END OF PAPER++++

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EXAM PAPER 2015
LEVEL : PRIMARY 6
SCHOOL : NANYANG PRIMARY SCHOOL
SUBJECT : MATHS
TERM : PRELIMINARY EXAMINATION

PAPER ONE

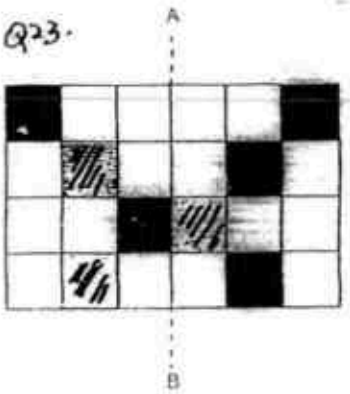
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	3	4	3	2	4	2	4	4	3
Q11	Q12	Q13	Q14	Q15					
3	1	1	4	2					

Q16. 2808 → 26 x 108 = 2808 Q17. 5 → $1\frac{5}{4} - 1 = \frac{5}{4}, \frac{5}{4} \div \frac{1}{4} = 5$

Q18. 7.5 → $\frac{3}{2} \times 5 = \frac{3}{2} \times 5 = \frac{15}{2} = 7.5$ Q19. 48.5kg → 48.54 ≈ 48.5

Q20. 12.25pm Q21. 3.005kg Q22. 105 **Q23. SEE PICTURE**

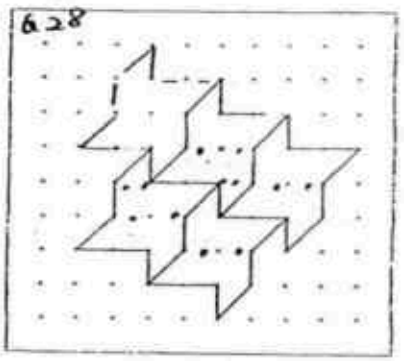
Q23.



Q24. 36° → 1u : 2h : 3u: 4u → total 10u, 360 ÷ 10 = 36, 1u → 36°

Q25. 400m/min → 8km = 8000m, $\frac{8000}{20} = 400m/\min$

Q26. $\frac{3}{4} \rightarrow \frac{3}{8} \div \frac{1}{2} = \frac{3}{8} \times \frac{2}{1} = \frac{6}{8} = \frac{3}{4}$ Q27. 20cm → 2400 → 120 X 20 **Q28. SEE PICTURE**



Q29. 31 → 20 + 35 + 15 + 40 + 60 + 30 = 200, 35% x 200 = 70

Q30. $(\frac{7n+28}{3})$

PAPER TWO

Q1. (6 + 6) x 6 – 6 = 66 Q2. 64m² → 24÷3 = 8, 8 x 8 = 64 Q3. 23 → 11u → 253, 1u → 23.

Q4. 8.5cm → Length of A : Breadth of A, 1 : 1. Length of B : Length of B 2: 3

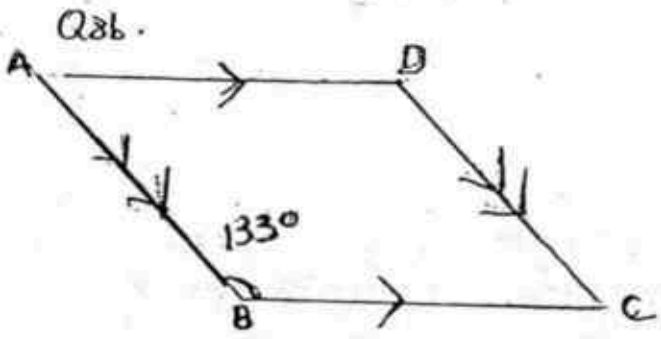
Q5. 9 → 47 – 45= 2, 42 – 24 = 18, 18 ÷2 = 9

Q6. 50% → M : W : C → 3 :2:1, + 6 : =2: +2, 6u → 24, 1u → 24 ÷6 = 4, 10 – 6 – 2=2, $\frac{2}{4} = 50\%$

Q7. $30.40 → $26.60 - $15.20 = $11.40, $11.40 ÷ 3 = $3.80, $3.80 + $26.60 = $30.40

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Q8.a. 133° Q8b. SEE PICTURE

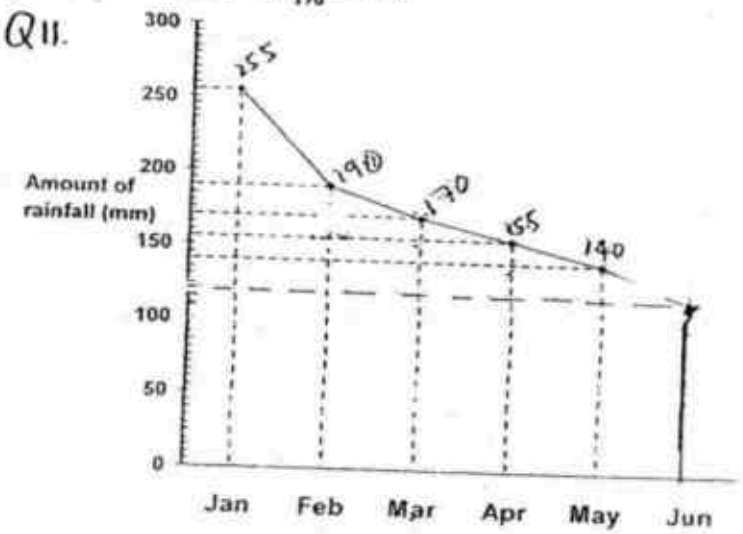


Q9. 12 → 8 x 80cents = $6.40, 2 x $1.20 = $2.40, $6.40 + $2.40 = $8.80, $17.60 ÷ $8.80=2, Tarts → 16, 16-4=12, Pies → 4.

Q10. 150km/hr → Express Train ; Normal Train, Time : 4: 10 → 2 : 5, Speed: 5 : 2, Distance : 1 : 1, Speed: 5 : 2, Distance : 1 : 1, 3u → 90, 1u → 90 ÷3=30, 5u → 5 x 30 =150.

Q11a. 50% → January → 255, March → 170, 255 - 170 = 85, $\frac{85}{170} = 50\%$

Q11b. 120 → SEE PICTURE



Q12.a 90° Q12b. 120° SEE PICTURE → $\measuredangle HFO = \measuredangle OEF = \measuredangle OFE = 60°$, ΔHFO = Isoceles, $\measuredangle FHO = \measuredangle HFO = \cdot 180° - 120°) \div 2 = 30°$, $\measuredangle X = 30° + 60° = 90°$, $\measuredangle GFE = \measuredangle GHO = \measuredangle Y = 120°$

Q13. 99.98cm → 3.98 – 7 -7 = 99.98

Q14.a. Tile B → (odd) Row 1 → A (11), (even) Row 2 → B (10), (Odd) Row 10 → B.

Q14b. 158 → 105 ÷ 7 = 15, 11 x 8 = 88, 10 x 7 = 70, 70 + 88 = 158

Q15a. 10587.5ml → 14 x 756.25 = 10587.5

Q15b. 27.774cm → 756.25 + 25 = 781.25, (1756.25 x 14) + (25 x 6) = 10737.5, 107.37.5 ÷781.25 = 137.44, 137.44 + 14 =27.744.

Q16. 186 → 42÷3 = 14, 14 x 4= 56, 56 +4=60, $\frac{60}{2} x\ 3 = 90, 90 + 3 = 93, 93 x 2 = 186$

Q17. 744 → 100u : 100u + 280, 150u + 140: 50u + 140, (150u + 140) - (50u +140) = 520, 100u = 520, 520+280=800

Q18. $140 → 2u → 440, 1u → $40÷2 = $20, 7U → $20 X 7 =$140.

THE END

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Index No. | | | | | | |

NAN HUA PRIMARY SCHOOL
PRELIMINARY EXAMINATION – 2015
PRIMARY 6

MATHEMATICS

Paper 1

Section A: 15 Multiple Choice Questions (20 marks)

Section B: 15 Short Answer Questions (20 marks)

Total Time for Paper 1: 50 minutes

INSTRUCTION TO CANDIDATES

1. Write your name and index number in the space provided.
2. Do not turn over the page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Shade your answers in the Optical Answer Sheet (OAS) provided for Questions 1-15.
6. You are not allowed to use calculator for Paper 1.

Marks Obtained

Paper 1	Booklet A		/ 40
	Booklet B		
Paper 2			/ 60
Total			/ 100

Name : _____ ( )

Class : 6_____

Date : 27 August 2015 Parent's Signature :_____

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Section A (20marks)

Questions 1 to 10 carry 1 mark each.
Questions 11 to 15 carry 2 marks each.
For each question, four options are given. One of them is the correct answer.
Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

1. Find the value of $44 - 12 \div 4 + 2 \times 4$.

   (1) 16
   (2) 36
   (3) 40
   (4) 49

2. Find the value of $213 \div 100$

   (1) 21300
   (2) 21.3
   (3) 2.13
   (4) 0.213

3. What is the value of the number that is represented on the place value table below?

Thousands	Hundreds	Tens	Ones
●	●●●●● ●●●●● ●	● ●	●●●

   (1) 1133
   (2) 2023
   (3) 2123
   (4) 21023

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4. The angles in a triangle are in the ratio 2 : 3 : 4. What is the value of the smallest angle?

(1) 20°

(2) 40°

(3) 60°

(4) 80°

5. Find the value of the missing number in the box.

$$\frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} = \boxed{\ ?\ } \times \frac{2}{9}$$

(1) 5

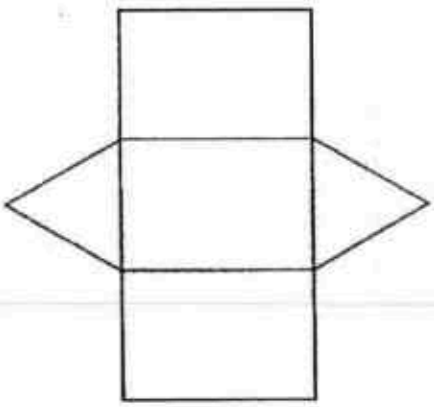
(2) 6

(3) 3

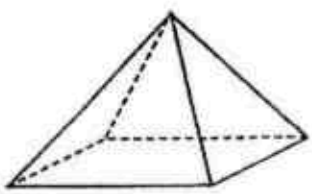
(4) 4

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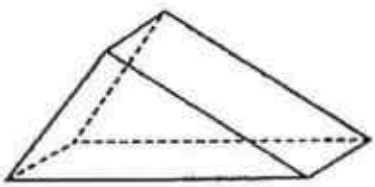
6. Which one of the following solids corresponds to the net given below?



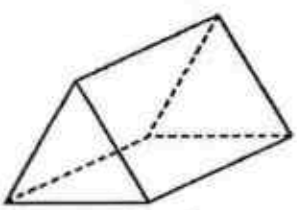
(1)



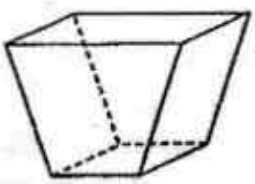
(2)



(3)



(4)



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7. Mr Lim drove his car for 20 minutes at an average speed of 90 km/h. Find the distance travelled by Mr Lim.

(1) 4.5 km

(2) 30 km

(3) 270 km

(4) 1800 km

8. John has 5 fifty-cent coins and 12 twenty-cent coins. How much money does he have altogether?

(1) $2.40

(2) $2.50

(3) $4.90

(4) $7.00

9. There was a 70% discount on a wallet. Helen paid $63 for the wallet. What was its original price?

(1) $18.90

(2) $44.10

(3) $90.00

(4) $210.00

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10. $\frac{3}{7}$ of a number is 210. What is $\frac{1}{2}$ of this number?

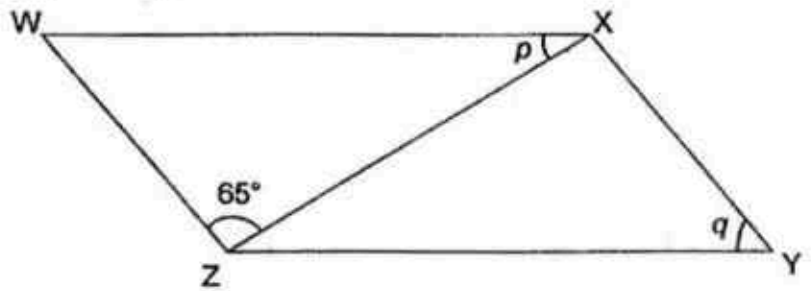
(1) 45

(2) 70

(3) 105

(4) 245

11. In the figure below, WXYZ is a parallelogram and $\angle WZX = 65°$. Find the sum of $\angle p$ and $\angle q$.



(1) 25°

(2) 65°

(3) 115°

(4) 130°

12. A rectangular tank is 80 cm long, 40 cm wide and 40 cm high. It is half-filled with water. How much more water must be added to fill the tank completely?

(1) 16000 cm^3

(2) 64000 cm^3

(3) 128000 cm^3

(4) 256000 cm^3

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13. Aliff spends $\frac{3}{5}$ of his money on 2 pencils and 2 staplers. He can buy another 4 pencils with the remaining money. If he spends all his money on staplers only, how many staplers can he buy?

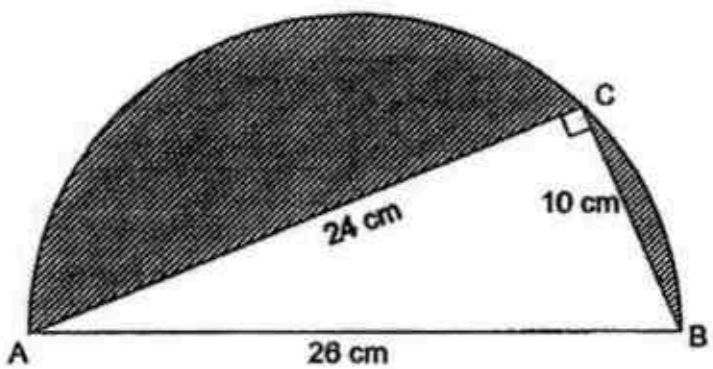
(1) 5

(2) 8

(3) 10

(4) 20

14. In the figure below, AB is the diameter of the semi-circle and C is a point on the semi-circular arc. ABC is a right-angled triangle such that AB = 26 cm, AC = 24 cm and BC = 10 cm. Find the total area of the shaded parts. Leave your answer in terms of π.



(1) $(84.5\pi - 120)\ cm^2$

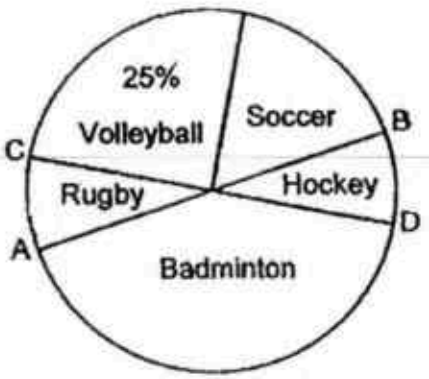
(2) $(84.5\pi - 130)\ cm^2$

(3) $(169\pi - 120)\ cm^2$

(4) $(169\pi - 130)\ cm^2$

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15. The pie chart below shows the different sports played by a group of children. AB and CD are diameters of the circle. The ratio of the number of children who played soccer to those who played rugby is 2 : 1.
Given that the total number of children who played soccer and hockey is 42, how many children played badminton?



(1) 63
(2) 70
(3) 105
(4) 150

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Section B (20 marks)

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.
[10 marks]

Do not write in this space

16. 197.000 ÷ 100 = _____ x 10

Ans: _____

17. Find the value of $7 + m - \frac{2m}{3}$ if $m = 6$.

Ans: _____

18. Find the missing number in the box.

0.853 = 0.8 + ? + 0.03

Ans: _____

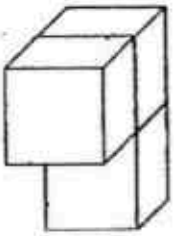
19. Mary cycled from Town A to Town B at an average speed of 25 km/h. If she started at 10 a.m., what time would she complete 10 km?

Ans: _____ a.m.

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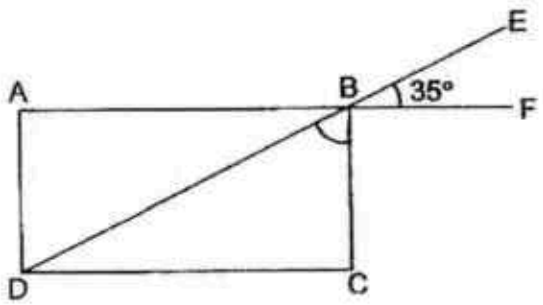
20. The solid below is made up of 3 similar cubes. The total area of any 3 square faces is 12 cm². What is the volume of the solid?

Do not write in this space



Ans: _____ cm^3

21. ABCD is a rectangle. AF and DE are straight lines and ∠EBF = 35°. Find ∠CBD.



Ans: _____°

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22. Table 1 shows the number of books that Ali, Bala and Carol have.

Do not write in this space

Table 1:

Name	No. of books
Ali	18
Bala	12
Carol	24

Using information from Table 1, complete the following table below for Ali and Bala by drawing the correct number of triangles.

Ali and Bala	
Carol	△△△△

Each △ represents 6 books.

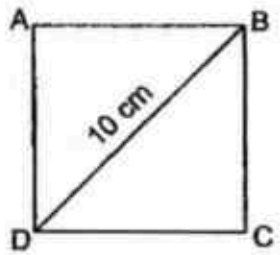
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23. There were 21 people in a queue for movie tickets. John was the 8th in the queue and Albert was the last person in the queue. How many people were between Albert and John?

Do not write in this space

Ans: _____

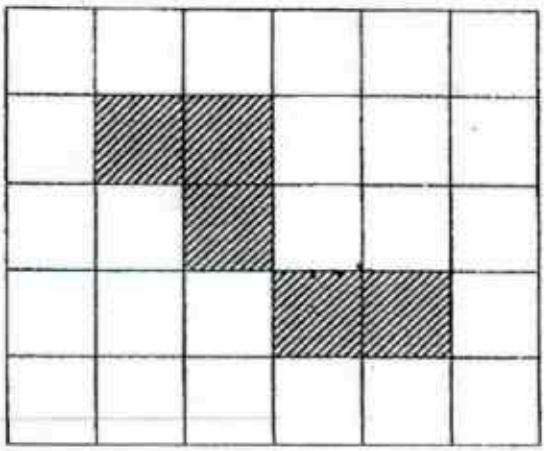
24. ABCD is a square. Line DB is the diagonal of the square and DB = 10 cm. What is the area of the square?



Ans: _____ cm^2

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25. Shade 1 more square in the grid below to complete the net of a cube.



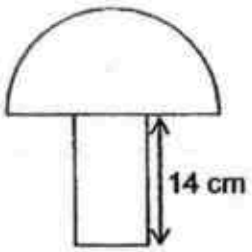
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Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For each questions which require units, give your answers in the units stated. [10 marks]

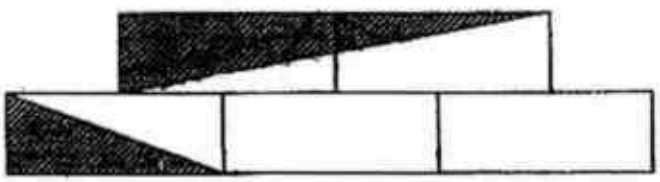
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26. The figure below is not drawn to scale. It is made up of a semicircle and a rectangle. The area of the rectangle is 28 cm^2. What is the perimeter of the whole figure? (Take $\pi = 3.14$)



Ans: _____ cm

27. The figure is made up of 5 identical rectangles. The shaded area is 15 cm^2. Find the area of the whole figure.

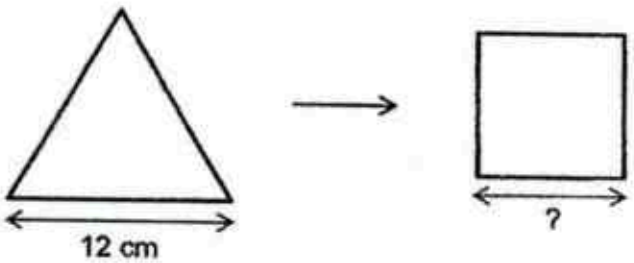


Ans : _____ cm^2

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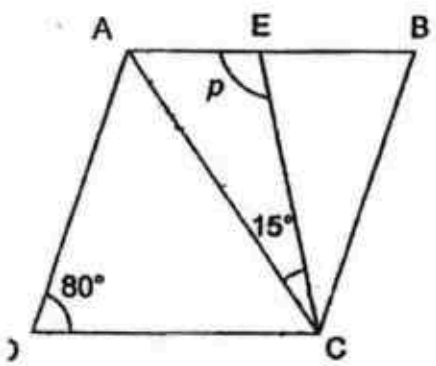
28. A wire is used to form an equilateral triangle of sides 12 cm each. It is then bent to form a square. What is the length of one side of the square?

Do not write in this space



Ans : _____ cm

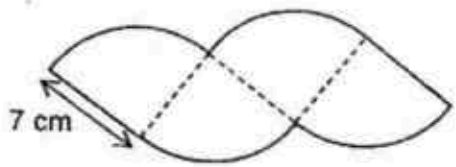
29. In the figure below, ABCD is a rhombus. $\angle ADC = 80°$ and $\angle ACE = 15°$. Find $\angle p$.



Ans : _____ °

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30. The figure below is made up of 4 identical quadrants of radius 7 cm. Find the perimeter of the figure. Take $\pi = \frac{22}{7}$.



Do not write in this space

Ans: _____ cm

END OF PAPER

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Index No. | | | | | | |

NAN HUA PRIMARY SCHOOL
PRELIMINARY EXAMINATION – 2015
PRIMARY 6

MATHEMATICS

Paper 2

Total Time for Paper 2: 1 hour 40 minutes

5 Short Answer Questions (10 marks)

13 Structured / Long Answer Questions (50 marks)

INSTRUCTION TO CANDIDATES

1. **Write your name and index number in the space provided.**
2. **Do not turn over the page until you are told to do so.**
3. **Follow all instructions carefully**
4. **Answer all questions and show your workings clearly.**
5. **You are allowed to use a calculator.**

Marks Obtained

Total		**/ 60**

Name : _____( )

Class : 6_____

Date : 27 August 2015 **Parent's Signature :_____**

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Paper 2 (60 marks)

Questions 1 to 5 carry 2 marks each. Show your workings clearly in the space below it and write your answer in the space provided. Give your answers in the units stated.

1. Ali has n stickers. Bala has 4 more stickers than him. Calli has 12 stickers. Express the total number of stickers in terms of n.

Do not write in this space

Ans: _____

2. Kumar saved $52.30 last week and twice as much this week. He decided to donate half of his total savings to charity. How much did he donate to charity? (Give your answer correct to the nearest dollar.)

Ans: $_____

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3. $\frac{1}{3}$ of Karen's money is the same as $\frac{2}{5}$ of John's money.

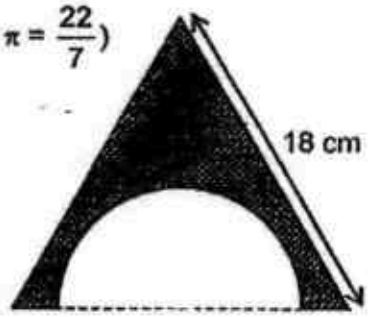
If John has $20, how much does Karen have?

Do not write in this space

Ans: $_____

4. The figure below, not drawn to scale, is made up of an equilateral triangle of side 18 cm and a semi-circle of radius 7 cm. Find the perimeter of the shaded part.

(Take $\pi = \frac{22}{7}$)

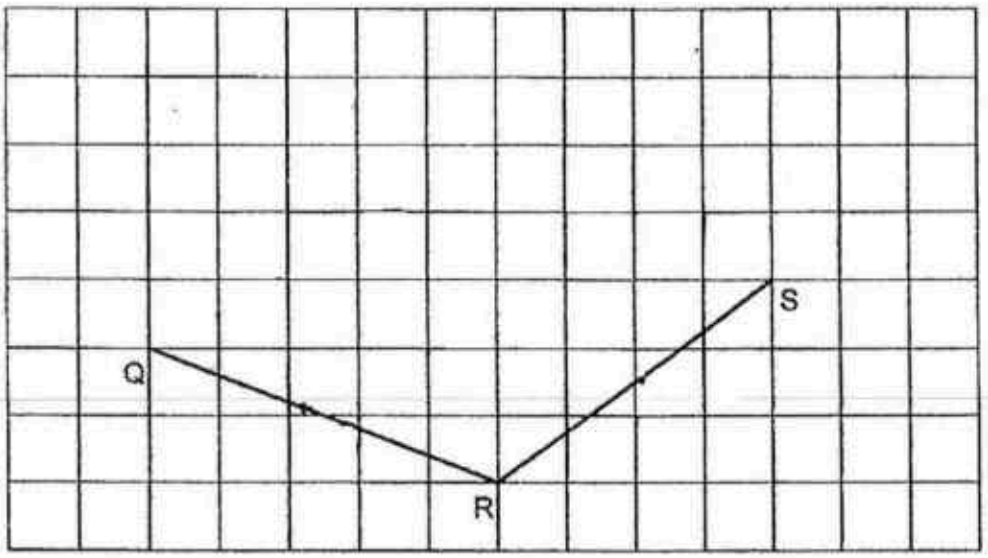


Ans: _____ cm

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5. Draw and label a parallelogram PQRS on the square grid below.

Do not write in this space



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For each question from 6 to 18, **show your workings clearly in the space below** it and **write your answer in the space provided**. The number of marks available is shown in brackets [ ] at the end of each question or part-question.
Remember to include the units wherever possible.

Do not write in this space

6. Mr Tan saved an average of $900 monthly from January to July. He saved an average of $860 from January to June. How much did he save in July?

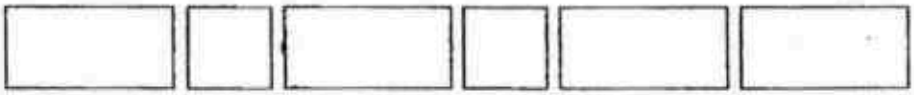
Ans: _____ [3]

7. Lisa and Rachel took part in a long distance race. When Lisa completed the race in 4 hours, Rachel had only run $\frac{5}{8}$ of the distance. Lisa's speed was 3 km/h faster than Rachel. Find Rachel's average speed for the race.

Ans: _____ [3]

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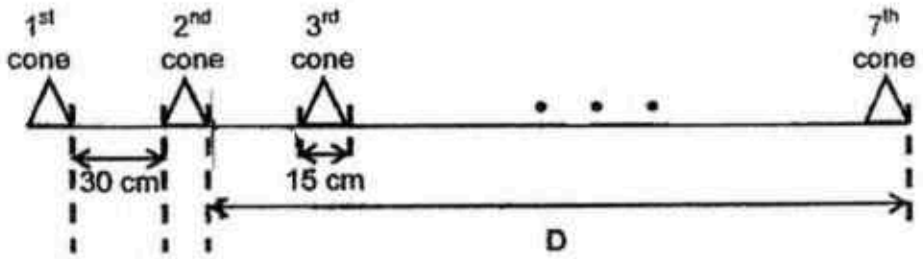
8. The figure below shows four identical rectangles and two identical squares which are used to form the net of a cuboid. The area of each rectangle is 72 cm^2 and the area of each square is 36 cm^2. Find the volume of the cuboid that is formed by this net.



Do not write in this space

Ans: _____ [3]

9. Seven identical cones are placed at equal distance apart along a straight path as shown in the diagram below. What is the distance D? Give your answer in cm.

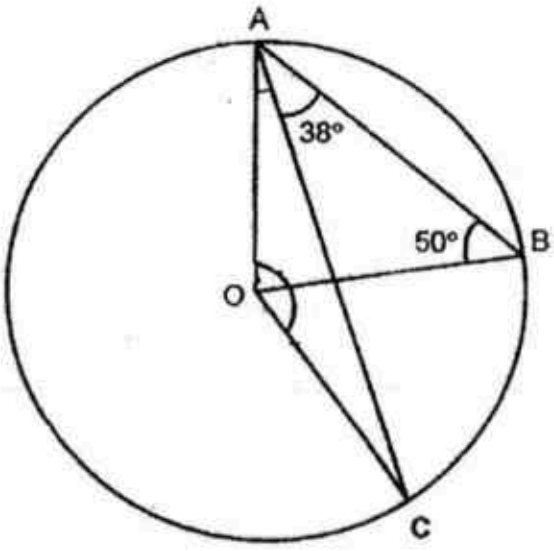


Ans: _____ [3]

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10. In the figure below, not drawn to scale, O is the centre of the circle. Given that $\angle ABO = 50°$ and $\angle BAC = 38°$, find $\angle AOC$.

Do not write in this space



Ans: _____ [3]

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11. Mdm Halimah paid $22.40 for some mangoes and pears.
She bought 8 more pears than mangoes.
A mango cost $1.20 which was 3 times as much as a pear.
How many mangoes did Mdm Halimah buy?

Do not write in this space

Ans: _____ [3]

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12. In a quiz, 5 marks were awarded for each correct answer to a question and 3 marks were deducted for each wrong answer.
Aini attempted all the questions but answered 21 questions wrongly.
She obtained a score of 287 marks.
How many questions were there in the quiz?

Do not write in this space

Ans: _____ [4]

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13. Xiao Ming had a stack of cards. He lost 68 cards to his friends during a game and his mother gave him 30 more cards. Xiao Ming then gave $\frac{7}{9}$ of what he had to his sister. In the end, Xiao Ming had 234 cards.

How many cards did he have at first?

Do not write in this space

Ans: _____ [4]

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14. Faizal and Jane shared a sum of money.
Jane had 80% of what Faizal had. Jane gave Faizal 25% of her share. As a result, Jane had $600 left for herself.

(a) How much money did Faizal have at first?
(b) What was the percentage increase in the amount of money Faizal had?

Do not write in this space

Ans: (a) _____ [3]

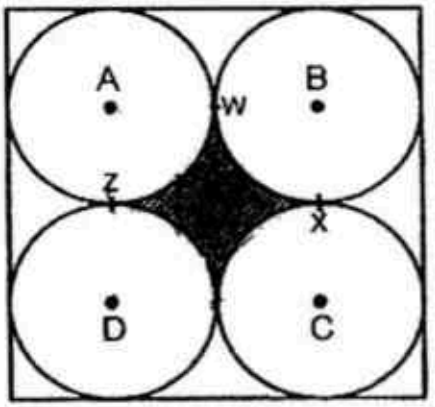
(b) _____ [1]

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15. The figure below shows a square with four identical circles of radius 10cm. The centres of the circles are A, B, C and D. The circles touch at W, X, Y and Z.

(a) Find the perimeter of the shaded part.

(b) Find the area of the shaded part.
(Take π =3.14)



Do not write in this space

Ans: (a) _____ [3]2

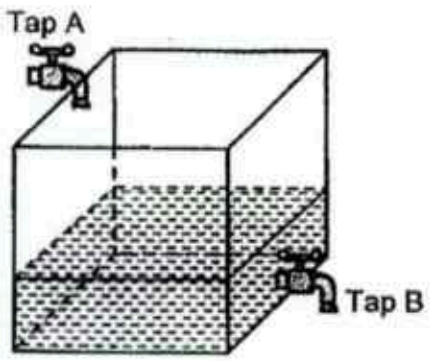
(b) _____ [3]3

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16. An empty rectangular tank measures 40 cm by 30 cm by 40 cm.
It is $\frac{1}{3}$ filled with water.
It is then filled with water flowing from Tap A at a rate of 9 litres per minute. At the same time, the water is drained out from Tap B at a rate of 4 litres per minute.

(a) How much water is in the tank at first?

(b) How long will it take to fill the tank completely?



Do not write in this space

Ans: (a) _____ [1]

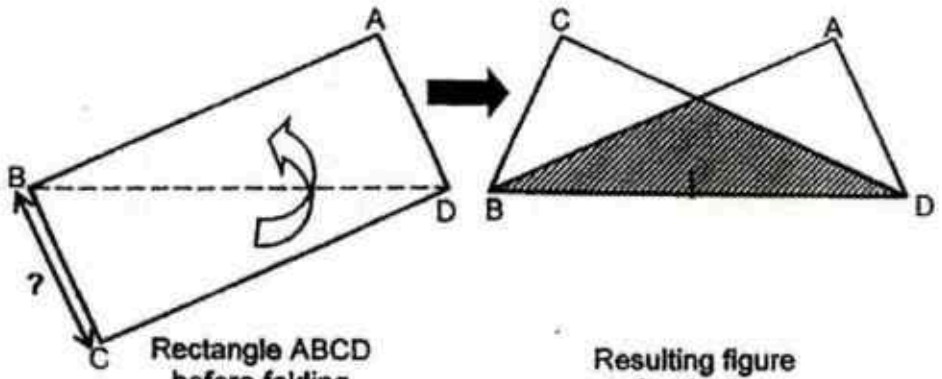
(b) _____ [4]

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17. Rectangle ABCD, not drawn to scale, has a length twice its breadth. It is folded along the dotted line as shown below. The area of the resulting figure is $\frac{11}{16}$ of the area of Rectangle ABCD.
If the shaded triangle has an area of 22.5 cm^2,

find the breadth of Rectangle ABCD.

Do not write in this space



Rectangle ABCD before folding

Resulting figure after folding

Ans: _____ [5]

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18. A box contained some fifty-cent coins, some twenty-cent coins and some ten-cent coins in the ratio 3 : 2 : 1 respectively.

$\frac{3}{4}$ of the fifty-cent coins were taken out and replaced by the same number of ten-cent coins. Then 200 twenty-cent coins were taken out and replaced by the same number of ten-cent coins.
In the end, the ratio of the number of fifty-cent coins, twenty-cent coins and ten-cent coins became 3 : 4 : 17 respectively.

(a) What was the total number of coins taken out of the box?
(b) What was the total value of the coins taken out of the box?

Do not write in this space

Ans: (a) _____ [3]

(b) _____ [2]

End-of-Paper

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NAN HUA PRIMARY SCHOOL
PRELIMINARY EXAMINATION 2015
PRIMARY 6 MATHEMATICS
PAPER 1

1) 4 2) 3 3) 3 4) 2 5) 3 6) 3 7) 2 8) 3 9) 4 10) 4 11) 3 12) 2
13) 1 14) 1 15) 2

16) 197000÷100÷10 = 197

17) 7+6-4 = 9

18) 0.053-0.03 = 0.023

19) 10÷25 = 0.4h = 24min
Ans: 10.24 a.m.

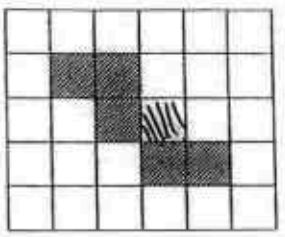
20) 12÷3 = 4
√4 = 2 cm
Volume of solid = 2x2x2x3 = 24 cubic cm

21) 90°-35° = 55°

22) 

23) 12

24) 1/2x10x5x2 = 50 sq. cm

25) 

26) 28÷14 = 2 cm
3.14x3 = 9.42 cm
9.42+6+14x2 = 43.42 cm

27) Area of 3 rectangles = 15x2 = 30 sq. cm
Area of 5 rectangles = 5/3x30 = 50 sq. cm

28) 12x3 = 36 cm
36÷4 = 9 cm

29) 360°-80°-80° = 200°
200°÷2 = 100°
100°÷2 = 50°
180°-50°-15° = 115°

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30) 2x22/7x7 = 44 cm
44+7+7 = 58 cm

PAPER 2

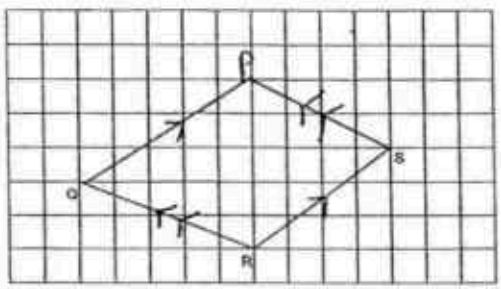
1) n+n+4+12 = (2n+16) stickers

2) $52.30x3 = $156.90
$156.90÷2 = $78.45 = $78

3) 5u -- $20
6u -- 6/5x$20 = $24

4) 22/7x7 = 22 cm
18-7-7 = 4 cm
22+4+18+18 = 62 cm

5)



6) $900x7 = $6300
$860x6 = $5160
$6300-$5160 = $1140

7) 3x4 = 12
3u -- 12km
5u -- 5/3x12 = 20 km
20÷4 = 5 km/h

8) 36 = 6x6
72÷6 = 12
6x6x12 = 432 cubic cm

9) 7-3+1 = 5
30+15 = 45
45x5 = 225 cm

10) Angle OAC = 50°-38° = 12°
Angle AOC = 180°-12°-12° = 156°

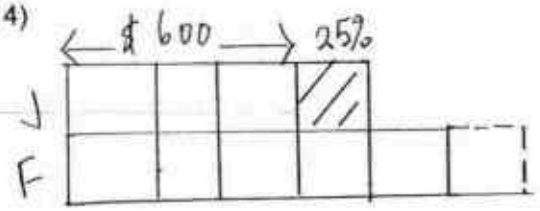
11) $1.20÷3 = $0.40
$0.40x8 = $3.20
$22.40-$3.20 = $19.20
$19.20÷$1.60 = 12 mangoes

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12) 21x3 = 63
63+287 = 350
350÷5 = 70
70+21 = 91 questions

13) 2u -- 234
9u -- 9/2x234 = 1053
1053-30 = 1023
1023+68 = 1091 cards at first

14)



a) 3u -- $600
5u -- 5/3x$600 = $1000
b) 1/5x100% = 20%

15a) 2x3.14x10 = 62.8 cm
b) 20x20 = 400
3.14x10x10 = 314
400-314 = 86 sq.cm

16a) 1/3x40x30x40 = 16000 cubic cm
b) 9000-4000 = 5000
16000x2 = 32000
32000÷5000 = 6.4 min

17) 5u -- 22.5 sq. cm
16u -- 16/5x22.5 = 72 sq. cm (area of the rectangle)
72÷2 = 36 sq. cm (area of half the rectangle i.e. area of a square)
√36 = 6 cm

18)

50¢	:	20¢	:	10¢
3	:	2	:	1
12	:	8	:	4
3			:	13
3	:	4	:	17

4u -- 200 coins
a) 13u -- 650 coins
650-200 = 450 coins
450X$0.50 = $225
200x$0.20 = $40
b) $225+$40 = $265

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Rosyth School
Preliminary Examination 2015
Primary 6 Mathematics

Name: _____ Register No. _____

Class: Pr 6 -_____

Date: 25th August 2015 Parent's Signature: _____

Total Time for Booklets A and B : 50 minutes

PAPER 1
(Booklet A)

Instructions to Pupils:

1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. Shade your answers in the Optical Answer Sheet (OAS) provided.
4. You are not allowed to use a calculator.
5. Answer all questions.

Section	Maximum Mark	Marks Obtained
Paper 1 (Booklet A)	20	

*** This booklet consists of 8 pages (including this cover page)**

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Questions **1** to **10** carry 1 mark each. Questions **11** to **15** carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

All diagrams in this paper are not drawn to scale unless stated otherwise.

(20 marks)

1. Round off 674 584 to the nearest ten thousands.

   (1) 670 000
   (2) 674 600
   (3) 675 000
   (4) 680 000

2. Arrange the following fractions from the largest to the smallest: $\frac{6}{5}, 1\frac{1}{3}, \frac{8}{7}$.

   (1) $\frac{8}{7}$, $\frac{6}{5}$, $1\frac{1}{3}$
   (2) $\frac{6}{5}$, $\frac{8}{7}$, $1\frac{1}{3}$
   (3) $1\frac{1}{3}$, $\frac{6}{5}$, $\frac{8}{7}$
   (4) $\frac{8}{7}$, $1\frac{1}{3}$, $\frac{6}{5}$

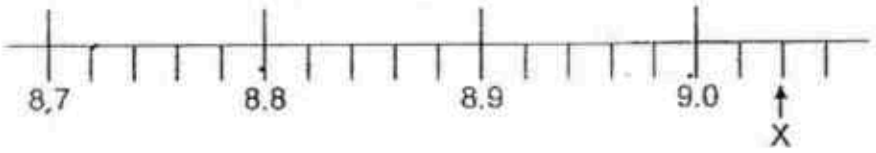
3. Express 1002 cm in m and cm.

   (1) 1 m 2 cm
   (2) 1 m 20 cm
   (3) 10 m 2 cm
   (4) 10 m 20 cm

(Go on to the next page)

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4. Part of a scale is shown below. What is the value of the reading at X?

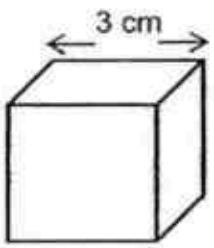


(1) 9.02
(2) 9.04
(3) 9.2
(4) 9.4

5. What is the value of $10 \div 5000$?

(1) 500
(2) 50
(3) 0.02
(4) 0.002

6. What is the total surface area of the cube shown below?

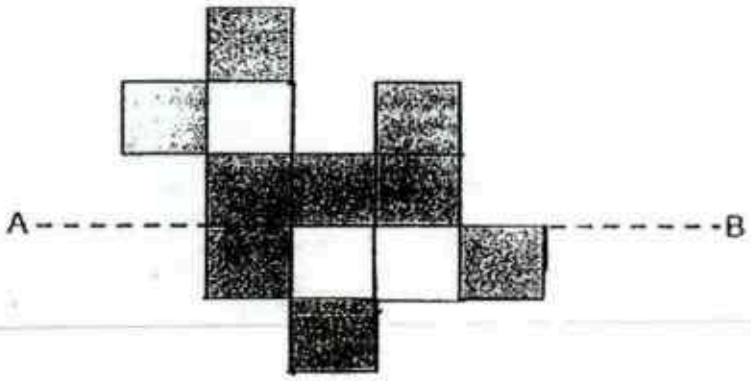


(1) $9\ cm^2$
(2) $18\ cm^2$
(3) $27\ cm^2$
(4) $54\ cm^2$

(Go on to the next page)

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7. The figure below shows 9 squares. What is the **smallest** number of squares that must be added so that the line AB becomes a line of symmetry?



(1) 3
(2) 5
(3) 7
(4) 9

(Go on to the next page)

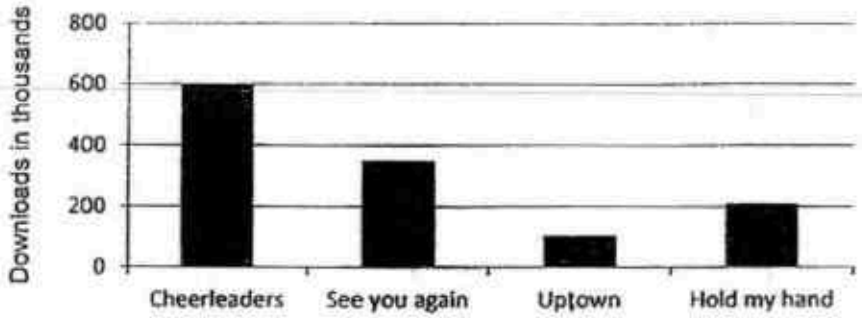
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8. The table shows the number of downloads for 4 different songs in June.

Songs	Number of downloads in thousands
Cheerleaders	600
See you again	350
Uptown	105
Hold my hand	211

Using the data, which of the graph shown below is drawn correctly?

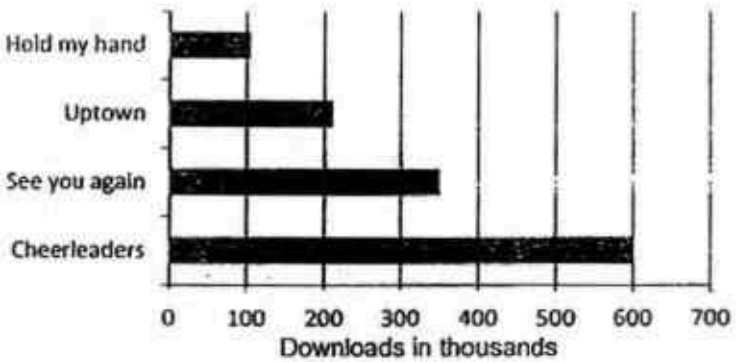
(1)



(2)



(3)



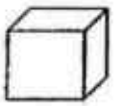
(4)



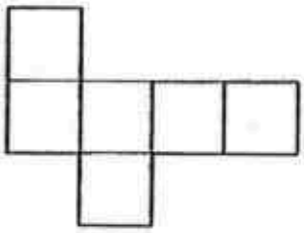
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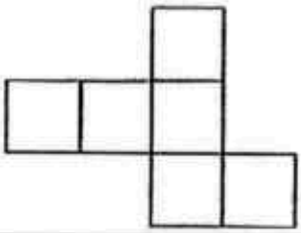
9. The figure shows a cube. Which one of the following is not a net of the cube?



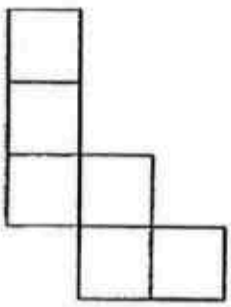
(1)



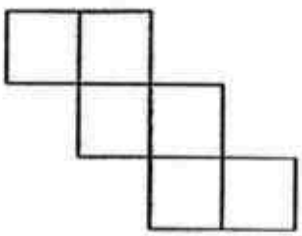
(2)



(3)



(4)



10. What is the value of $\frac{12k}{5} - k + 1$ when $k = 3$?

(1) 3.2
(2) 5.2
(3) 6.4
(4) 7.2

(Go on to the next page)

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11. Andrew uses the four letters W, X, Y and Z to form a pattern. The first 16 letters are shown below. Which letter is in the 74th position?

W	X	Y	Z	Z	Y	X	W	W	X	Y	Z	Z	Y	X	W	...	?
1st															16th		74th

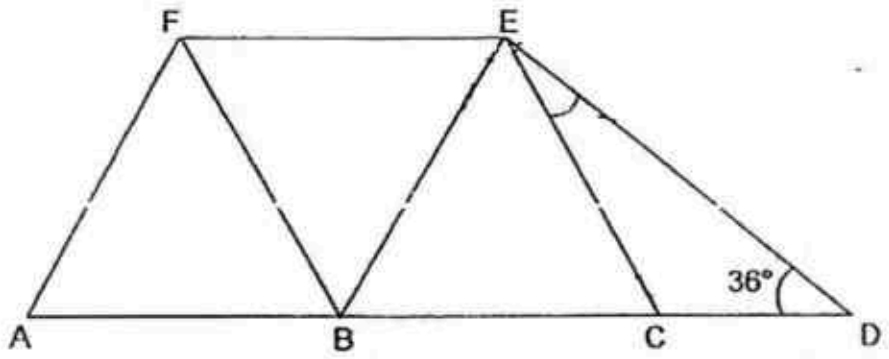
(1) W
(2) X
(3) Y
(4) Z

12. Elijah had 2 pieces of square paper of different sizes. The length of the larger piece of square paper is 2 times of the length of the smaller piece of square paper.

He cut out exactly 64 squares from the larger piece of square paper. How many such squares can he cut out from the smaller piece of square paper?

(1) 8
(2) 16
(3) 24
(4) 32

13. ABEF and BCEF are rhombuses. Find ∠ CED.



(1) 24°
(2) 36°
(3) 45°
(4) 60°

(Go on to the next page)

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14. The pupils of class 6A are divided equally into Team A and Team B. The ratio of the number of boys to the number of girls in Team A is 2 : 1 and in Team B is 5 : 13. What is the ratio of the number of boys to the number of girls in the class?

(1) 1 : 2
(2) 7 : 14
(3) 17 : 19
(4) 19 : 17

15. A car and a van left town A for town B at the same time. The car travelled at a constant speed of 120 km/h throughout the journey. The van travelled at a constant speed towards town B. When the van travelled $\frac{1}{3}$ of the distance, the car was 18 km ahead of the van. How much earlier did the car reach town B than the van?

(1) 18 min
(2) 27 min
(3) 45 min
(4) 207 min

(Go on to Booklet B)

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Rosyth School
Preliminary Examination 2015
Primary 6 Mathematics

Name: _____ Register No. _____

Class: Pr 6 - _____

Date: 25th August 2015 Parent's Signature: _____

Total Time for Booklets A and B : 50 minutes

PAPER 1
(Booklet B)

Instructions to Pupils:

1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. You are **not** allowed to use a calculator.
4. Answer all questions.

Section	Maximum Mark	Marks Obtained
Paper 1 (Booklet B)	20	

*** This booklet consists of 8 pages (including this cover page)**

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Questions **16** to **25** carry **1** mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space

All diagrams in this paper are not drawn to scale unless stated otherwise.

16. Find the value of $3 \div 8$. Express your answer as a decimal.

Ans: _____

17. Express 21.68 as a fraction in the simplest form.

Ans: _____

18. List all the common factors of 28 and 63.

Ans: _____

19. The opening hours of a clinic are shown below.
How long is the clinic open each day?

Opens Daily

Morning
8.15 a.m. to 12.00 p.m.

Afternoon
2.00 p.m. to 6.30 p.m.

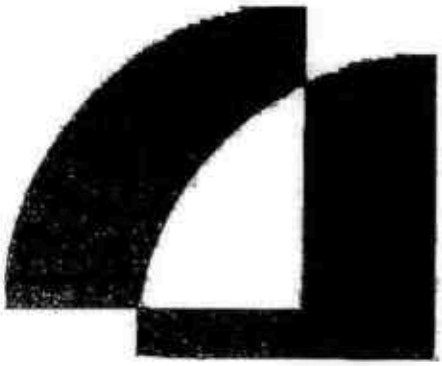
Ans: _____ hours

(Go on to the next page)

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20. The figure is made up of 2 identical quadrants of radius 7 cm.
Find the perimeter of the shaded part. (Take $\pi = \frac{22}{7}$)

Do not write in this space



Ans: _____ _____cm

21. Ashley bought 3.5 kg of flour. She used $\frac{4}{7}$ of it. How much of the flour is left?

Ans: _____ kg _____ g

22. Hannah went shopping and bought the following items:

Pencil Case	$8.05
Pen	$1.80
Eraser	30¢

How much did she spend altogether?

Ans: $_____

(Go on to the next page)

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23. The pie chart shows the favourite sports for a class of 40 pupils.
What percentage of the class like badminton?

Do not write in this space



Ans: _____ %

24. A boy is facing the HBD flats.
He makes a 135° turn in the anti-clockwise direction.
Which location will he face after the turn?

Shopping Mall		MRT station		HDB flats
Library				school
Coffee Shop		Market		Park



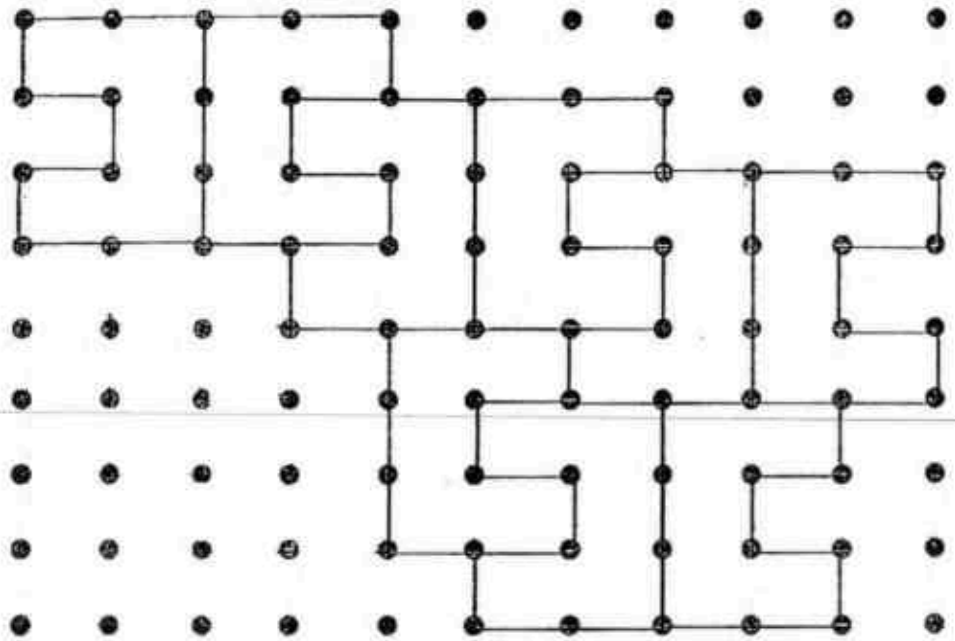
Ans: _____

(Go on to the next page)

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25. The pattern below shows part of a tessellation. Extend the tessellation by drawing two more unit shapes in the space provided in the grid.

Do not write in this space



(Go on to the next page)

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Questions **26** to **30** carry 2 marks each. Show your workings clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

Do not write in this space

All diagrams in this paper are not drawn to scale unless stated otherwise.

---

26. At first, Mr Tan put an equal number of strawberries into 21 baskets. 3 baskets were removed and the strawberries in these baskets were put into the remaining 18 baskets. Because of this, the number of strawberries in each remaining basket increased by 7. What was the number of strawberries in each basket at first?

Ans: _____

---

27. The mass of a container $\frac{2}{3}$ filled with sand was 1.2 kg. When 220 g of sand was poured out of the container, it became $\frac{1}{2}$ full. Find the mass of the empty container.

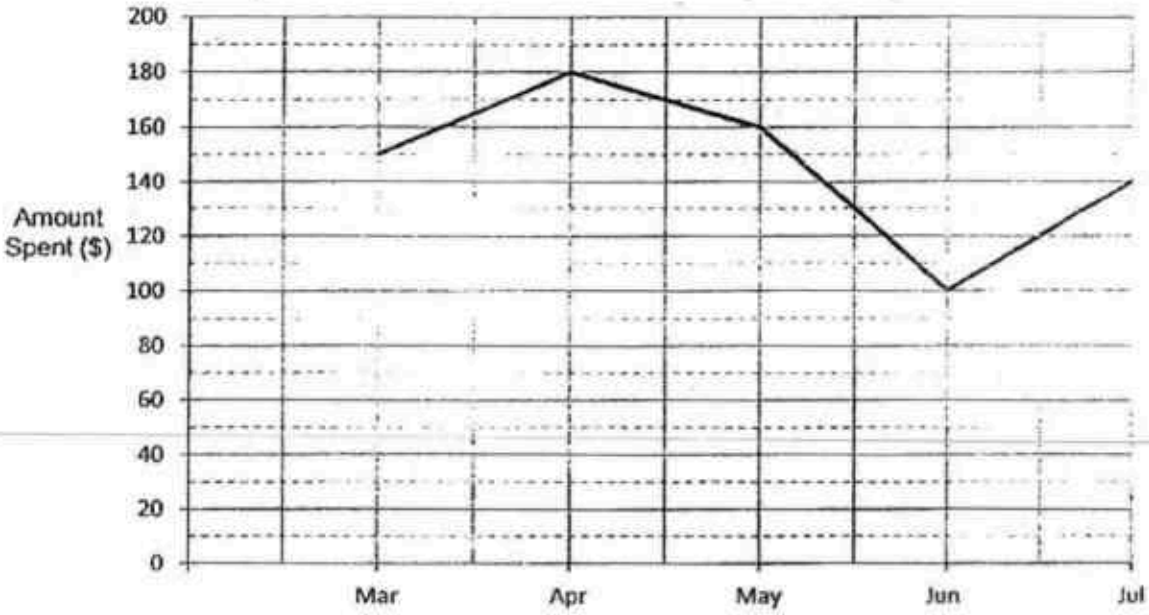
Ans: _____ g

(Go on to the next page)

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28. Lisa was given $200 each month for her pocket money. The line graph shows the amount of money Lisa spent each month.

Do not write in this space



What was the percentage increase in savings in June compared to May?

Ans: _____ %

29. Keith had 8 more marbles than Arthur. Arthur gave $2w$ of his marbles to Keith and had 4 marbles left. How many marbles do they have altogether? Give your answer in terms of w in the simplest form.

Ans: _____

(Go on to the next page)

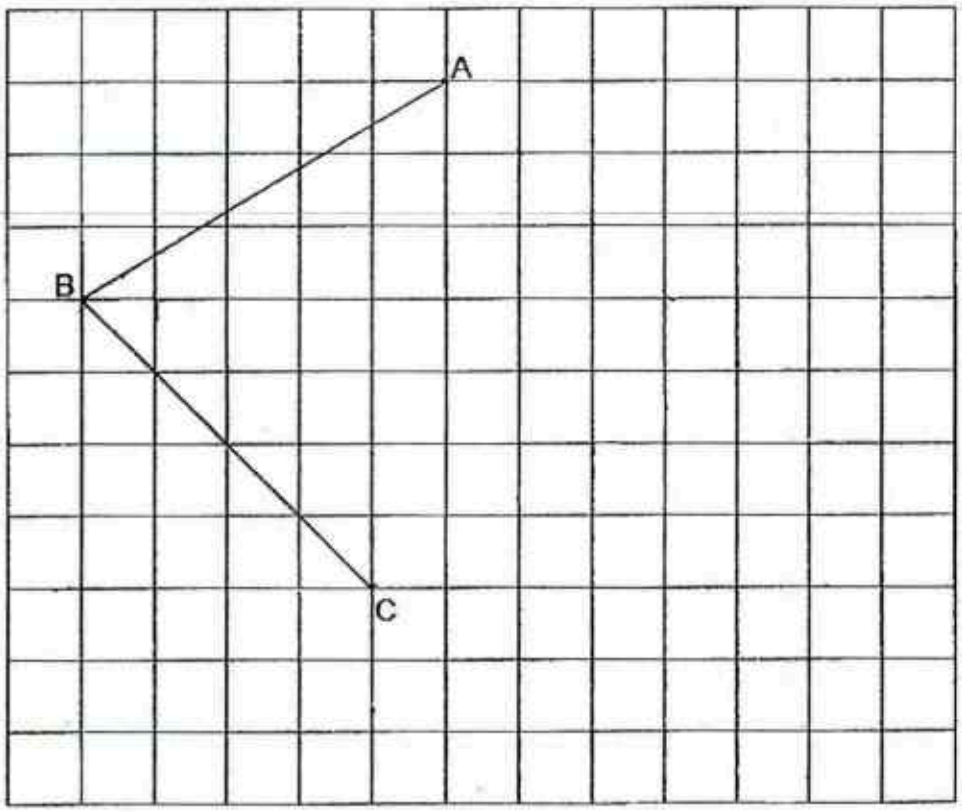
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30. In the square grid, two sides of a parallelogram AB and BC have been drawn.

Do not write in this space

(a) Measure and write down the size of $\angle ABC$.

(b) Complete the drawing of the parallelogram ABCD.



Ans (a): _____ °

End of paper. Have you checked your work?

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Rosyth School
Preliminary Examination 2015
Primary 6 Mathematics

Name: _____ Register No. 11

Class: Pr 6 - _____

Date: 25th August 2015 Parent's Signature: _____

Time: 1h 40mins

PAPER 2

Instructions to Pupils:

1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. **Show your workings clearly** as marks are awarded for correct working.
4. Write your answers in this booklet.
5. You are allowed to use a calculator.
6. Answer all questions.

Questions	Maximum Mark	Marks Obtained
Q 1 to 5	10	
Q 6 to 18	50	

Section	Maximum Mark	Marks Obtained
Paper 1	40	
Paper 2	60	
Total	100	

***This booklet consists of 16 pages (including this cover page)**

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Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

Do not write in this spac

All diagrams in this paper are not drawn to scale unless stated otherwise.

1. The charges for renting a bicycle are shown below.

Time	Charge
1st hour or less	$5.50
Every additional $\frac{1}{2}$ hour or part thereof	$1.50

5 girls rented 4 bicycles from 8.30 a.m. to 1.15 p.m. They shared the charges equally. How much did each girl pay?

Ans: $_____

2. During a concert, the total number of participants was 2000. There were 1100 children and the rest were adults. The ratio of the number of boys to the number of girls was 5 : 6. There were 100 more women than men. What was the ratio of the total number of male participants to the total number of female participants?

Ans: _____

(Go on to the next page)

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3. Two years ago, Darren was half of his father's age. His father is $6k$ years older than Darren. What is the total age of Darren and his father now? Give your answer in terms of k in the simplest form.

Do not write in this space

Ans: _____

4. The table below shows the number of books read by each pupil in a class of 40 pupils. One of the numbers in the table is covered by an ink blot.

Number of books read by each pupil	0	4	8	
Number of pupils	5	12	15	8

The average number of books read by the pupils in the class is 6.

What is the number covered by the ink blot?

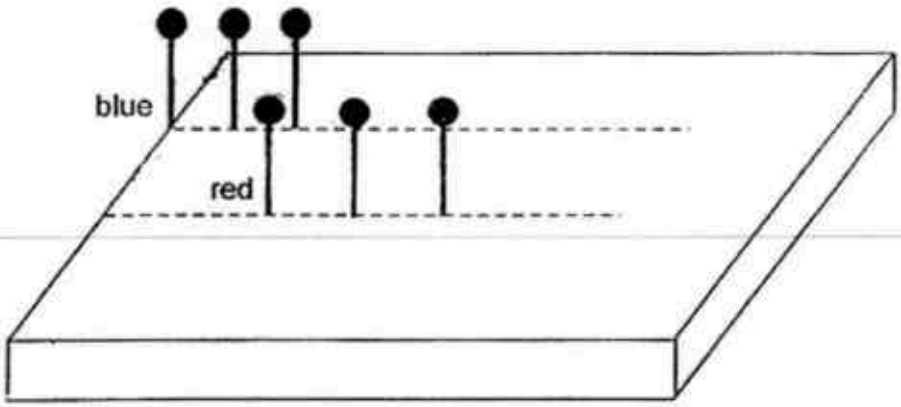
Ans: _____

(Go on to the next page)

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5. Leo wanted to form two straight lines, one with red sticks and the other with blue sticks. He placed the first blue stick at the starting line and the first red stick 8 cm away from the starting line. For the blue sticks, he placed them 6 cm apart whereas for the red sticks, he placed them 7 cm apart. What is the least number of red sticks he must use for the blue and the red sticks to be at exactly the same distance away from the starting line?

Do not write in this space



Ans: _____

(Go on to the next page)

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For Questions **6** to **18,** show your working clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. For questions which require units, give your answers in the units stated.

All diagrams in this paper are not drawn to scale unless stated otherwise.

(50 marks)

Do not write in this space

6. Mrs Sim had 5 times as much money as Mrs Wong.
After Mrs Sim spent $387.30 at a shopping mall, she had $10.50 less than Mrs Wong.
How much money did Mrs Sim have at first?

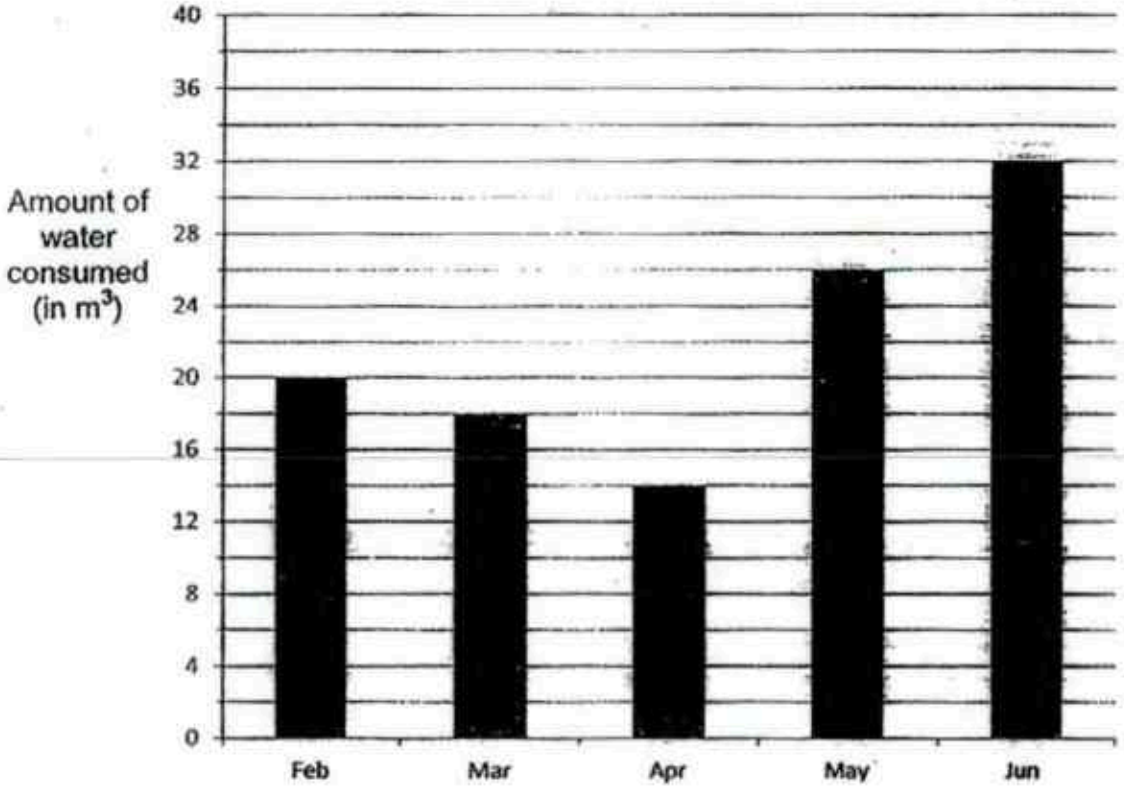
Ans: _____ [3]

(Go on to the next page)

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7. The graph shows the water consumption of the Tan family for 5 months.

Do not write in this space



(a) What was the smallest amount of water used during the 5 months?

(b) Water used is charged at a rate of 117 cents per m^3. An additional 30% of the amount charged is to be paid as a tax. How much did the Tan family pay for water in May?

Ans: (a) _____ [1]

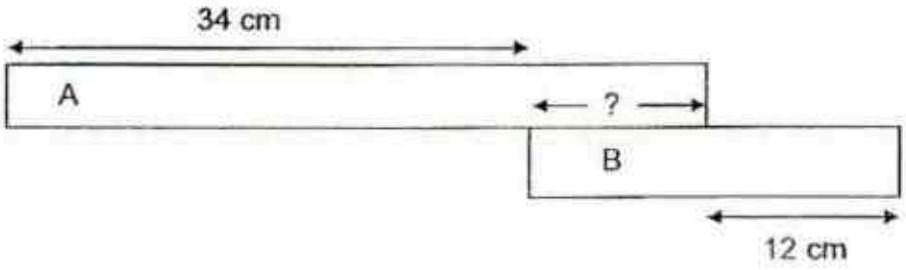
(b) _____ [2]

(Go on to the next page)

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8. Charlyn glued two sticks as shown in the diagram below. The length of stick B is $\frac{3}{7}$ the length of stick A. What is the length of the part that is glued together?

Do not write in this space



Ans: _____ [3]

9. Mrs Singh left Town A and drove towards Town B at the same time when Mr Kang left Town B and drove towards Town A. Mrs Singh drove at an average speed of 65 km/h while Mr Kang drove at an average speed of 78 km/h. They passed each other at a point 26 km from the midway of the two Towns. Find the distance between Town A and Town B.

Ans: _____ [3]

(Go on to the next page)

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10. There were altogether 1000 apple pies, banana pies and cherry pies in a shop. After $\frac{1}{3}$ of the apple pies and 190 of banana pies were sold, the ratio of the number of apple pies to the number of banana pies to the number of cherry pies was 3 : 1 : 2. Find the number of banana pies left in the shop.

Do not write in this space

Ans: _____ [3]

(Go on to the next page)

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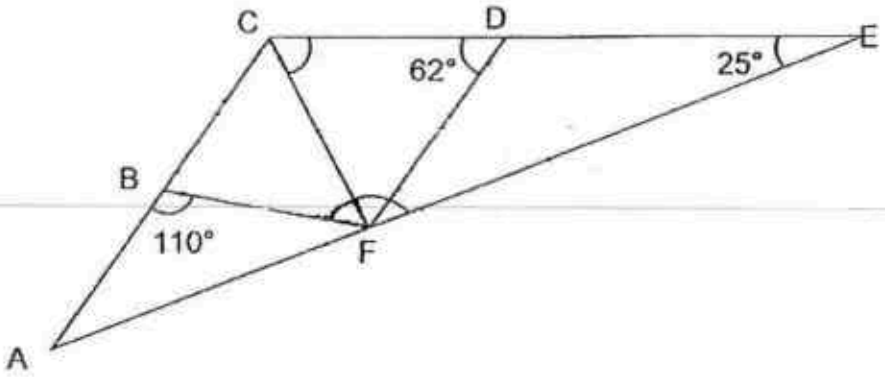
11. In the figure below, CB is parallel to DF. CBF is an isosceles triangle. ABC, CDE and AFE are straight lines.

Do not write in this space

Given that ∠ABF = 110°, ∠CDF = 62° and ∠FED = 25°, find

(a) ∠DCF,

(b) ∠BFE.



Ans: (a) _____ [1]

(b) _____ [2]

(Go on to the next page)

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12. The ratio of the number of cards that Wilbur has to the number of cards Xavier has was 5 : 9 at first.

After Wilbur gave $\frac{2}{5}$ of his cards to his cousin and Xavier lost 84 of his cards, Xavier had twice as many cards as Wilbur.
How many cards did both of them have at first?

Do not write in this space

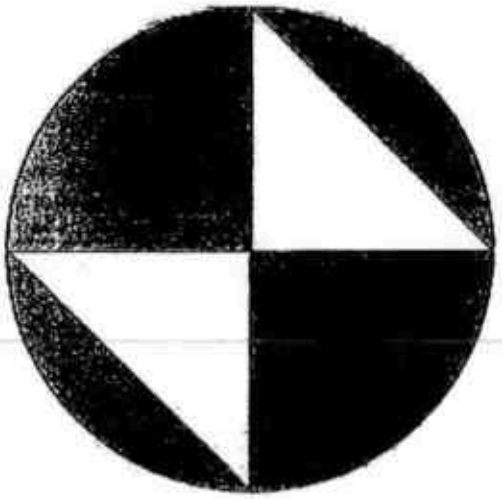
Ans: _____ [4]

(Go on to the next page)

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13. The figure is made up of a circle and 2 triangles. O is the centre of the circle. The area of an unshaded triangle is 32 cm^2. Find the area of the shaded part. (Take $\pi = 3.14$)

Do not write in this space



Ans: _____ [4]

(Go on to the next page)

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14. Jamie and Karen shared $720. The ratio of the amount Jamie received to the amount that Karen received was 1 : 5. Jamie received only $2 notes while Karen received only $5 notes. Karen took some of her $5 notes and exchanged them for $2 notes of the same value with Jamie. After the exchange, the ratio of the number of Jamie's notes to that of the number of Karen's notes became 1 : 3 . How many $5 notes did Karen use to exchange for $2 notes with Jamie?

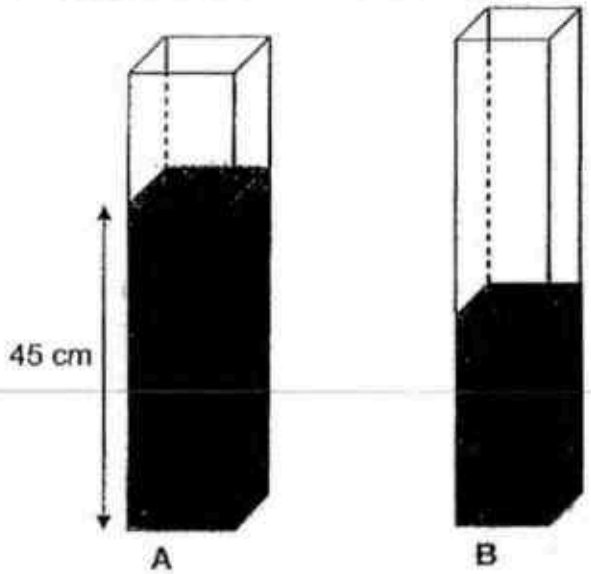
Do not write in this space

Ans: _____ [4]

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15. A and B are two rectangular containers. The base area of A is 40 cm^2 while the base area of B is 30 cm^2. At first, A contained water to a height of 45 cm and B contained some water as shown in the diagrams below.

Do not write in this space



(a) What was the volume of the water in A at first?

(b) Rachel then poured 660 cm^3 of water from A to B. After that, the height of the water level in B was twice that in A. How many litres of water was in B at first?

Ans: (a) _____ [1]

(b) _____ [4]

(Go on to the next page)

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16. At a musical performance, $\frac{4}{5}$ of the people were adults. $\frac{3}{4}$ of the children were boys. There were 72 more boys than girls at the musical performance.

Do not write in this space

(a) How many boys were there at the musical performance?

(b) Some boys left the performance before the show ended.
$\frac{1}{10}$ of the remaining people at the musical performance were boys.
How many boys left the performance before the show ended?

Ans: (a) _____ [2]

(b) _____ [3]

(Go on to the next page)

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17. Alynna and Christel went shopping together with a total of $750. Alynna spent $\frac{1}{3}$ as much as Christel. They saved the rest of their money. Alynna spent $148 less than what she had saved. In the end, she saved twice as much money as Christel.

Do not write in this space

(a) How much money did Alynna spend?

(b) How much money did Christel have at first?

Ans: (a) _____ [3]

(b) _____ [2]

(Go on to the next page)

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18. The price of a bag in shop A was 75% of the price which shop B sold it for. The bag cost $900 in shop B.

Do not write in this space

(a) Miss Lim bought the bag in shop A. In addition to the cost of the bag, she had to pay a Goods and Services Tax (GST) of 7%. How much did Miss Lim pay for the bag?

(b) During a sale, both shops offer an equal percentage discount on the bag. The discounted price of the bag before GST in shop B is $184.50 more than the discounted price of the bag in shop A before GST. What is the percentage discount?

Ans: (a) _____ [2]

(b) _____ [3]

End of Paper

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ROSYTH SCHOOL
PRELIMINARY EXAMINATION 2015
PRIMARY 6 MATHEMATICS
PAPER 1

1) 1 2) 3 3) 3 4) 2 5) 4 6) 4 7) 3 8) 4 9) 3 10) 2 11) 2
12) 2 13) 1 14) 3 15) 2

16) 0.375

17) 21/17/25

18) 1, 7

19) 8/1/4 hours

20) 1/2x2x22/7x7 + 7x4 = 22+28 = 50 cm

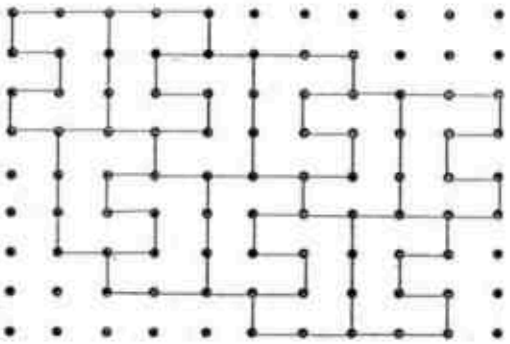
21) 3/7x3.5 = 1.5 kg = 1kg 500g

22) $(8.05+1.80+0.30) = $10.15

23) 14/40x100% = 35%

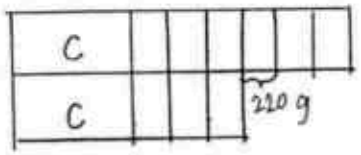
24) Library

25)



26) 18x7 = 126
126÷3 = 42

27)



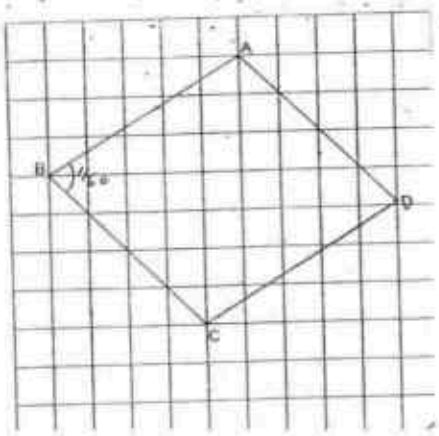
1u -- 220g
4u -- 4x220 = 880g
1200-880 = 320g

28) 60/40x100% = 150%

29) 2w+4+2w+4+8 = (4w+16) marbles

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30)



PAPER 2

1) 4X1.5OX2 = $12
5.50+12 = $17.50
17.50X4 = $70
70÷5 = $14

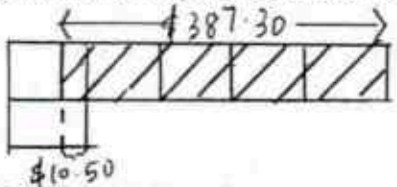
2) 11u -- 1100
5u -- 500 (boys)
2000-1100 = 900 (adults)
900-100 = 800
800÷2 = 400 (men)
2000-500-400 = 1100 (female)
900 : 1100 = 9 : 11

3) 6k+2+12k+2 = 18k+4

4) 6x40 = 240
240-48-120 = 72
72÷8 = 9

5) Multiples of 6 : 6, 12, 18, 24, 30, 36, 42, 48 ...
Multiples of 7 + 8 : 15, 22, 29, 36 ...
common is 36, hence there are 5 red sticks

6)



387.30-10.50 = $376.80
376.80÷4 = $94.20
94.20x5 = $471

7a) 14 cubic m
b) 1 cubic m -- 117¢
26 cubic m -- 26x117 = 3042 ¢ = $30.42
1.3x$30.42 = $39.55

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8) 34-12 = 22 cm
4u -- 22 cm
3u -- 3/4x22 = 16.5 cm
16.5-12 = 4.5 cm

9) 78-65 = 13 km/h
26÷13 = 2 h
65x2 =130 km
130+26 = 156 km
156x2 = 312 km

10) A : B : C
in the end, 3 : 1 : 2
6 : 2 : 4
at first, 9 : 2 : 4
15u -- 1000-190 = 810
2u -- 2/15x810 = 108 banana pies left

11) Angle BCF = Angle CBF = 180°-110° = 70°
a) Angle DCF = 180°-62°-70° = 48°
Angle DFE = 62°-25° = 37°
Angle BFD = 180°-70° = 110°
b) Angle BFE = 37°+110° = 147°

12) W : X
5 : 9
3 : 6
3u -- 84
14u -- 14/3x84 = 392 cards at first

13) Area of unshaded part (square) = 32x2 =64 sq. cm
Radius = √64 = 8 cm
Area of shaded part = 3.14x8x8-64 = 136.96 sq. cm

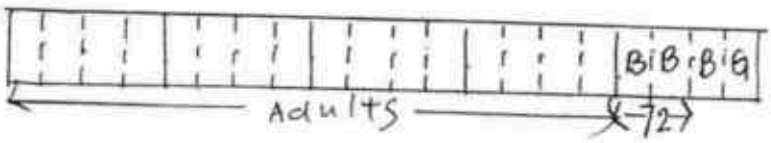
14) 6u -- $720
1u -- 1/6x$720 = $120
$720-$120 = $600
$120÷$2 = 60 ($2 notes)
$600÷$5 = 120 ($5 notes)
4 parts -- 60+120 = 180 notes
1 part -- 1/4x180 = 45 notes (Jamie)
$5-$2 = $3
45x$2 = $90
$120-$90 = $30
$30÷$3 = 10 $5 notes

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15a) 40x45 = 1800 cubic cm

b) 660÷40 = 16.5 cm
45-16.5 = 28.5 cm
28.5x2 = 57 cm
57x30 = 1710 cubic cm = 1.71 l
1.71-0.66 = 1.05 l

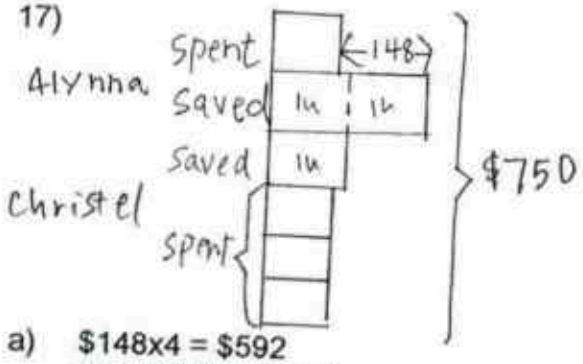
16)



a) 2u -- 72 boys
3u -- 3/2x72 = 108 boys

b) 17u -- 17/2x72 = 612
9 parts -- 612
1 part -- 1/9x612 = 68
108-68 = 40 boys

17)



a) $148x4 = $592
$750+$592 = $1342
$1342÷11 = $122
$122x2 = $244
$244-$148 = $96

b) $96x3 = $288
$288+$122 = $410

18) 75/100x$900 = $675

a) 107/100x675 = $722.25
$900-$675 = $225
184.50/225x100% = 82%

b) 100%-82% = 18%

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METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887

PRELIMINARY EXAMINATION 2015
PRIMARY 6
MATHEMATICS

PAPER 1
(BOOKLET A)

Total Time for Booklets A and B: 50 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Shade your answers in the Optical Answer Sheet (OAS) provided.
The use of calculators is **NOT** allowed.

Name: _____

Class: Primary 6.

Date: 25 August 2015

This booklet consists of 7 printed pages including this page.

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Questions **1** to **10** carry 1 mark each. Questions **11** to **15** carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

(20 marks)

---

1 Round off 271.605 to the nearest hundredth.

(1) 270.00

(2) 271.61

(3) 271.60

(4) 300.60

2 Which one of the following is the most likely mass of an apple?

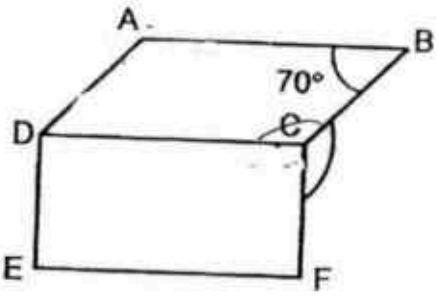
(1) 13 g

(2) 130 g

(3) 1.3 kg

(4) 13 kg

3 In the diagram below, ABCD is a parallelogram and CDEF is a rectangle. Find $\angle BCF$.



(1) 110°

(2) 140°

(3) 160°

(4) 200°

(Go on to the next page)

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4 The table below shows the number of cars sold by Mr Lim from January to April.

Month	Jan	Feb	Mar	Apr
Number of cars	10	8	6	0

What was the average number of cars sold per month?

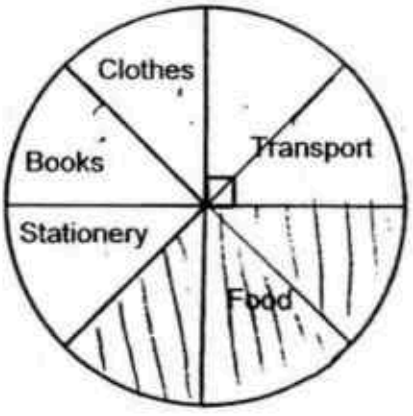
(1) 6

(2) 8

(3) 12

(4) 24

5 The pie chart below shows how Ben spent his allowance in a typical month.
He spent the same amount of money on stationery, books and clothes.
The amount spent on stationery and food is 50% of his allowance.
What fraction of his allowance did he spend on food?



(1) $\frac{1}{3}$

(2) $\frac{1}{8}$

(3) $\frac{3}{8}$

(4) $\frac{7}{8}$

(Go on to the next page)

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6 What is the value of $10b - \frac{4b+3}{3}$ when $b = 3$?

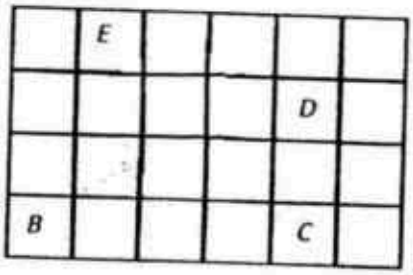
(1) 17

(2) 18

(3) 19

(4) 25

7 The grid below shows the position of A, B, C, D and E. Which letter is South-East of A?



(1) B

(2) C

(3) D

(4) E

8 Five pears costs $\$y$. 4 oranges cost as much as 5 pears. John bought 10 pears and 12 oranges. He gave the cashier \$50. How much change did he receive?

(1) $\$(50 - y)$

(2) $\$(50 - 5y)$

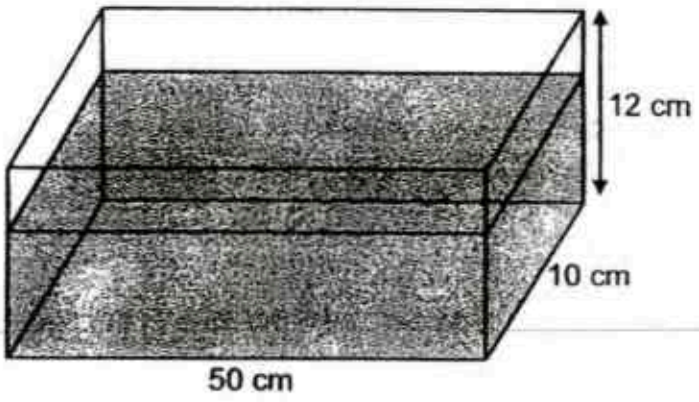
(3) $\$(50 - 9y)$

(4) $\$(50 - 22y)$

(Go on to the next page)

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9 The figure below shows a glass tank which is $\frac{2}{3}$-filled with water. How much more water is needed to fill the tank completely?



(1) 2000 cm^3

(2) 3000 cm^3

(3) 4000 cm^3

(4) 6000 cm^3

10 Which one of the following fractions is less than $\frac{1}{3}$?

(1) $\frac{3}{8}$

(2) $\frac{4}{11}$

(3) $\frac{5}{14}$

(4) $\frac{7}{22}$

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11 Mrs Tan wants to pack 45 chocolate bars and 60 sweets into goodie bags for her daughter's birthday party. She needs to pack the items equally into as many bags as possible without any leftover. How many sweets will there be in each bag?

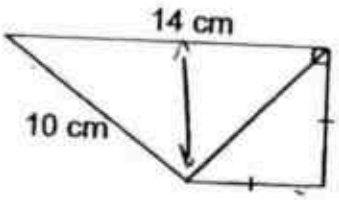
(1) 12

(2) 9

(3) 3

(4) 4

12 The perimeter of the figure is 40 cm. Find the area of the figure.



(1) 80 cm^2

(2) 88 cm^2

(3) 96 cm^2

(4) 112 cm^2

13 In a basket, $\frac{3}{5}$ of the fruits are apples and the rest are oranges. $\frac{1}{4}$ of the apples are green and the rest are red. There are 45 red apples. How many fruits are there in the basket?

(1) 60

(2) 75

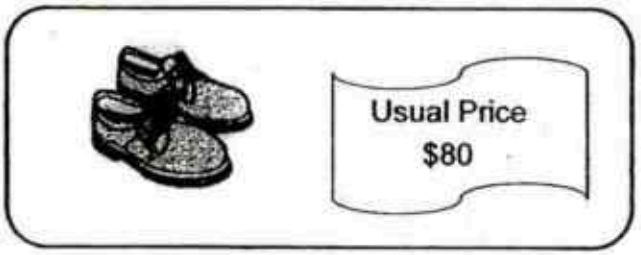
(3) 100

(4) 180

(Go on to the next page)

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14 Mr Tan bought a pair of shoes at a **20% discount** during the Great Singapore Sale. He had a discount card which entitled him to an **additional 10%** discount off the sale price. How much did Mr Tan pay for the shoes in the end?



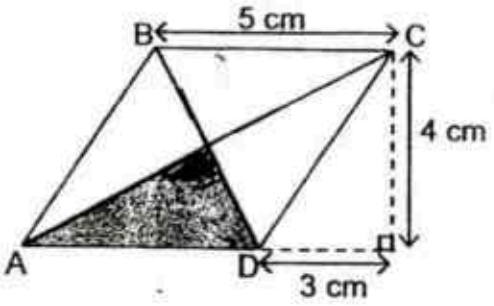
(1) $56.00

(2) $57.60

(3) $64.00

(4) $72.00

15 In the diagram below, ABCD is a rhombus. E is the mid-point of BD and AC. Find the area of the shaded part.



(1) 5 cm^2

(2) 6 cm^2

(3) 10.5 cm^2

(4) 16 cm^2

(Go on to Booklet B)

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PRELIMINARY EXAMINATION 2015
PRIMARY 6
MATHEMATICS

PAPER 1
(BOOKLET B)

Total Time for Booklets A and B: 50 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Write your answers in this booklet.
The use of calculators is **NOT** allowed.

Name: _____

Class: Primary 6.

Date: 25 August 2015

Paper 1 Booklet A	**/ 20**
Paper 1 Booklet B	**/ 20**
Paper 2	**/ 60**
TOTAL	**/ 100**

This booklet consists of 8 printed pages including this page.

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Questions **16** to **25** carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

Do not write in this space

16 Find the value of 100.4 – 9.85

Ans: _____

17 Find the value of $2 + \frac{1}{3} - \frac{3}{4}$. Give your answer in the simplest form.

_____

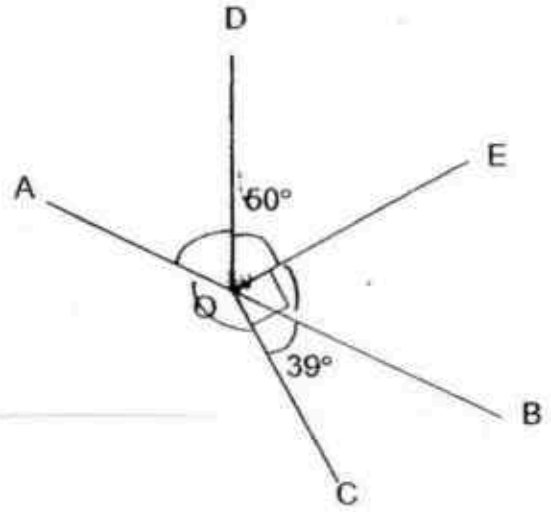
18 Express $\frac{13}{125}$ as a decimal.

Ans: _____

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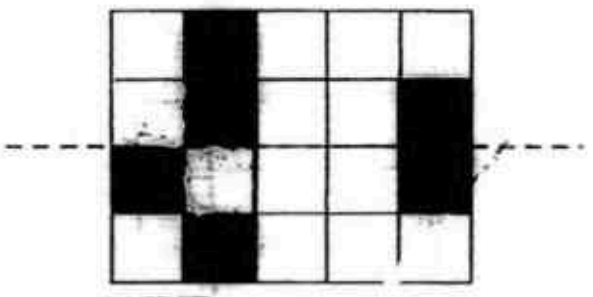
19 In the figure below (not drawn to scale), AOB is a straight line and ∠EOC is a right angle, ∠DOE = 50° and ∠BOC = 39°. Find ∠AOD.

Do not write in this space



Ans: _____ °

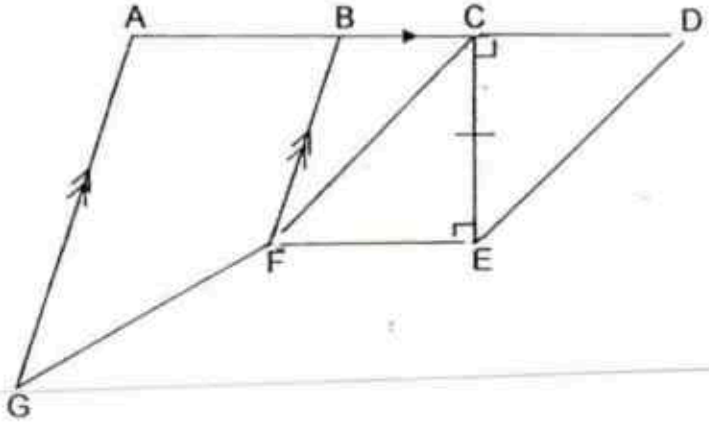
20 Complete the drawing below by shading **2** more squares so that the dotted line is a line of symmetry.



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21 The figure below is not drawn to scale. AD // FE and AG // BF. CD = CE = FE. Name a parallelogram in the figure.

Do not write in this space

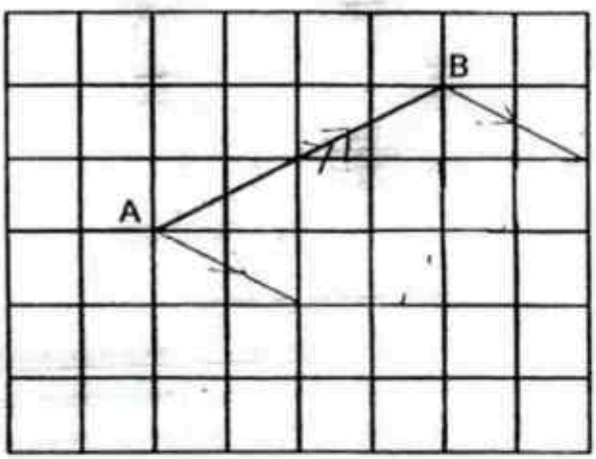


Ans: _____

22 Rahmat cycled for 10 minutes at a constant speed of 15 km/h from his home to the library. How far was the library from his home?

_____

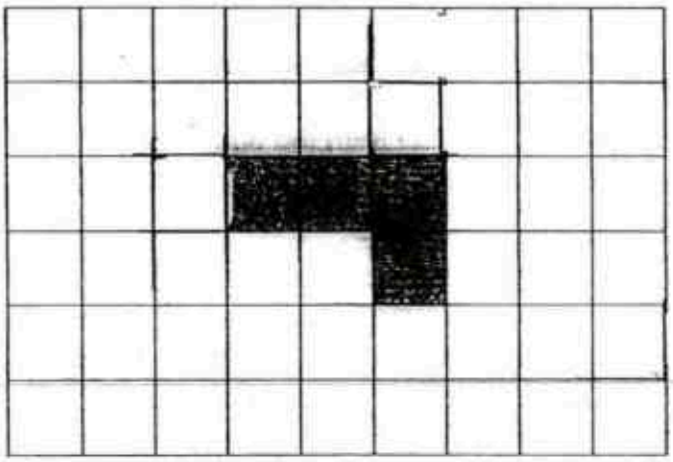
23 In the grid below, complete the drawing to form a parallelogram, ABCD.



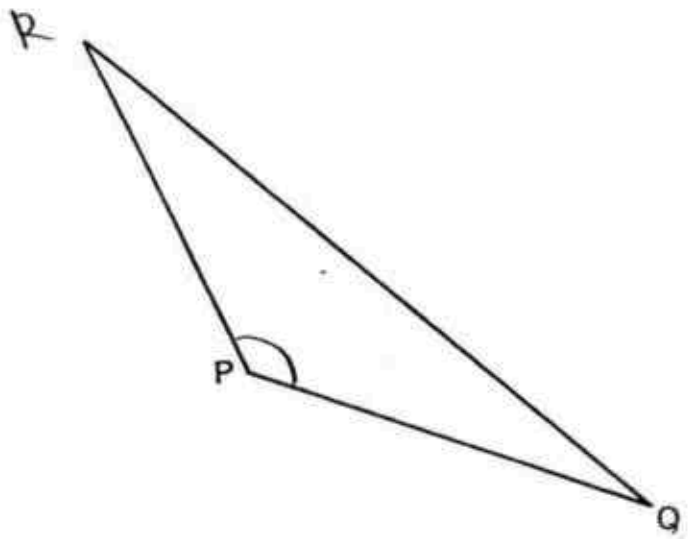
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24 In the grid below, **draw** in the number of square(s) needed, such that the shaded figure below shows the net of a cube.

Do not write in this space



25 Draw triangle PQR such that $\angle RPQ = 134°$ and RP = 5 cm. The line PQ has been drawn for you. Label the point R and mark the angle on your diagram.



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Questions **26** to **30** carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

Do not write in this space

(10 marks)

26 Ahmad used rectangular cards, each measuring 4 cm by 6 cm, to form a square. Find the area of the square formed if he had used the **least** number of rectangular cards to form the square.

Ans: _____ cm^2

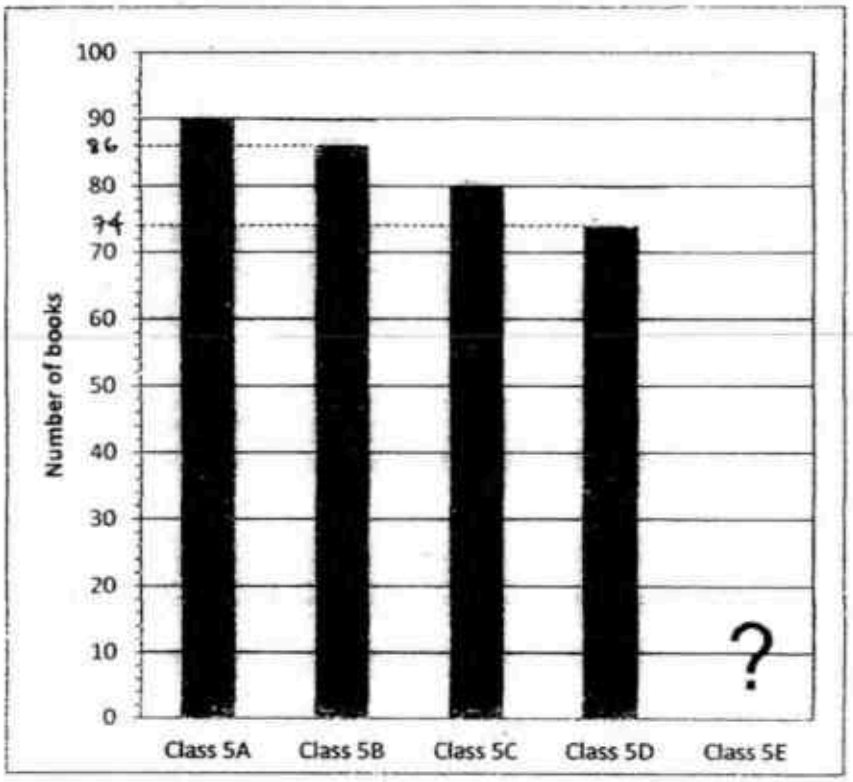
27 Amelia has a box of red, blue and yellow beads. The ratio of the number of red beads to the number of blue beads is 2 : 3. The ratio of the number of yellow beads to the total number of red and blue beads is 2 : 7. What fraction of the beads in the box are blue?
Give your answer in the simplest form.

Ans: _____

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28 The graph shows the the number of books borrowed from the library by 5 classes in a week. The average number of books borrowed by the 5 classes was 80. How many books did Class 5E borrow from the library?

Do not write in this space



Ans: _____

(Go on to the next page)

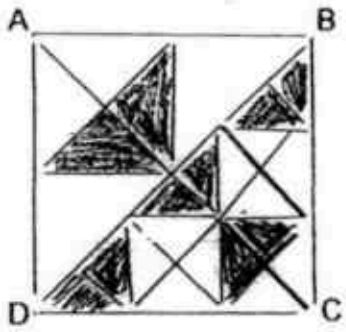
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29 Mr Sim bought an equal number of goldfish and angelfish. He spent a total of $72. The cost of an angelfish was $3. Each goldfish cost $2 more than an angelfish. How many goldfish and angelfish did Mr Sim buy altogether?

Do not write in this space

Ans: _____

30 ABCD is a square. What is the ratio of the total shaded area to the area of square ABCD?



Ans: _____

End of Paper

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METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887

PRELIMINARY EXAMINATION 2015
PRIMARY 6
MATHEMATICS

PAPER 2

Duration: 1h 40 min

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Write your answers in this booklet.
The use of an approved calculator is expected, where appropriate.

Name: _____

Class: Primary 6.

Date: 25 August 2015

60

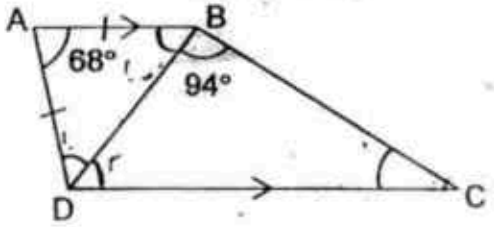
This booklet consists of 15 printed pages including this page.

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Questions **1** to **5** carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space

1 The figure below shows a trapezium ABCD with AB // DC, $\angle DAB = 68°$ and $\angle DBC = 94°$. ABD is an isosceles triangle with AB = AD. Find $\angle BCD$.



Ans: _____ °

2 Jane had $6m$ mangoes. She ate 2 mangoes and gave $3m$ mangoes to her sister. She then used half of the remaining mangoes to bake a mango cake. How many mangoes had Jane left?
Give your answer in terms of m in the simplest form.

Ans: _____

(Go on to the next page)

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3 The bus ride from Julie's office to her home is 43 mins. She boarded the bus at 5.23 p.m. What time would the bus arrive at her home? Give your answer in the 24-hour clock.

Do not write in this space

Ans: _____

4 Jeremy paid $175 for a camera after a discount of 30%. What was the price of the camera before the discount?

Ans: $ _____

5 Sally spent $\frac{1}{3}$ of her money on a storybook. She spent $\frac{1}{4}$ of the remaining money on a pen. She had $12.90 left. How much money did she have at first?

Ans: $ _____

(Go on to the next page)

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For Questions **6** to **18**, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (50 marks)

Do not write in this space

6 A cafe sold a total of 290 large and regular cups of coffee at the prices shown below. The total amount collected was $1979.50.
How many large cups did the cafe sell?



Ans: _____ [3]

(Go on to the next page)

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7 The average amount donated by each person in a group was $135. George and Bala joined the group and each of them donated $170. As a result, the average amount donated by each person in the group increased to $140. How many people were there in the group at first?

Do not write n this space

Ans: _____ [3]

8 Alex and Jack took part in a cycling race. Jack cycled at a speed of 24 km/h. Both of them did not change their speed throughout the race. When Alex reached the halfway point, Jack was 3 km ahead of him. Alex reached the end point at 12.10 p.m. At what time did Jack reach the end point?

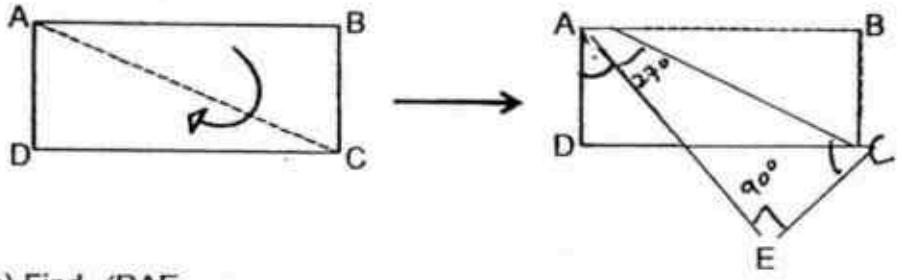
_____ [3]

(Go on to the next page)

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9 A rectangular piece of paper is folded along the dotted line AC as shown below.

Do not write in this space



(a) Find ∠DAE.

(b) Find ∠ACE.

Ans: (a) _____ [1]

(b) _____ [2]

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10 The pie chart shows the favourite ice-cream flavours of a group of children. Half of the number of children like Cookies & Cream, Strawberry and Chocolate ice-cream.

Do not write in this space



(a) What **fraction** of the children like Lychee and Vanilla ice-cream?

(b) How many children like Chocolate and Coffee ice-cream?

Ans: (a) _____ [1]

(b) _____ [2]

(Go on to the next page)

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11 Betty had some beads. She used $\frac{2}{9}$ of the beads to make a necklace and $\frac{1}{5}$ of the remaining beads to make a bracelet. She bought another 85 beads and then she had as many beads as she had at first.
How many beads did Betty have at first?

Do not write in this space

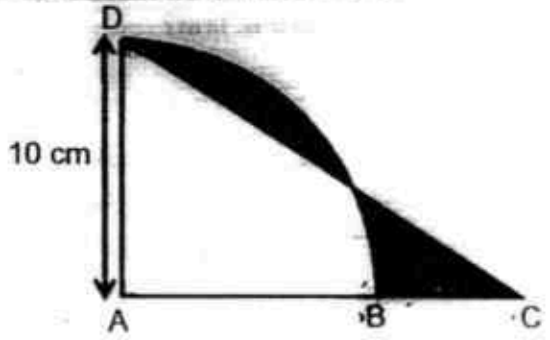
Ans: _____ [3]

(Go on to the next page)

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12 The diagram below shows a quadrant and a right-angle triangle. The ratio of the length of AB to the length of AC is 2 : 3. What is the difference in area between the 2 shaded parts? Take $\pi = 3.14$.

Do not write in this space



Ans: _____ [4]

(Go on to the next page)

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13 Mandy and Rani went shopping with a total sum of $219. Mandy spent twice as much as Rani. Mandy had half as much money left as Rani. The amount of money that Rani had left was $8 more than what she had spent. How much money did Rani have at first?

Do not write in this space

Ans : _____

(Go on to the next page)

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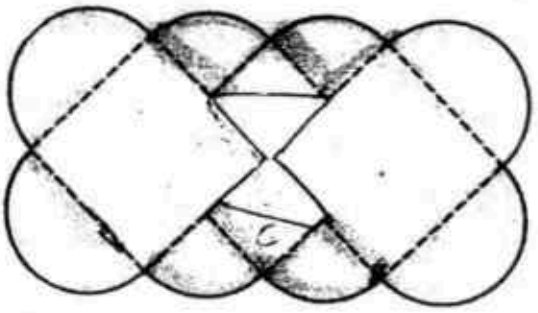
14 The figure below shows the design of a floor rug. The edges of the rug is made up of 4 semicircles and 4 quarter-circles, each of radius 21 cm.

Take $\pi = \frac{22}{7}$.

Do not write in this space

(a) Find the perimeter of the rug.

(b) Find the area of the rug.



Ans: (a) _____ (3)

(b) _____ (2)

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15 Mr Lim works 5 days in a week from 10 a.m. to 7.30 p.m. He drives to work and arrives at his office 25 minutes before he starts work to have his breakfast at the staff cafeteria. The table below shows the parking rates at his office building.

Do not write in this space

6 a.m. to 6 p.m.	$1.55 per half hour or part thereof
6.01 p.m. to 12 midnight	$4.30 per entry
Season parking pass	$357 per month

(a) How many hours does Mr Lim work every day?

(b) Mr Lim works for 4 weeks every month. How much would Mr Lim save per month if he buys the season parking pass?

Ans: (a) _____ [1]

(b) _____ [3]

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16 During the Christmas sale, Mrs Chen bought an oven and a washing machine at a discount. She spent a total of $1 086 for these two items. She spent $414 less on the oven than on the washing machine.

Do not write in this space

(a) How much did she spend on the washing machine?

(b) The total discount given for the two items was $644. She was given a 40% discount for the washing machine. What was the percentage discount given for the oven?

Ans: (a) _____ [2]

(b) _____ [3]

(Go on to the next page)

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17 Mel and Lillian were given the same mass of pizza dough. Mel used the dough to make 9 large pizzas and had 300 g of dough left. Lillian used the dough to make 25 small pizzas and had 200 g of dough left. The mass of dough used for 2 large size pizzas was the same as that for 5 small pizzas.

Do not write in this space

(a) How many large pizzas can be made with the same mass of dough used to make 25 small pizzas?

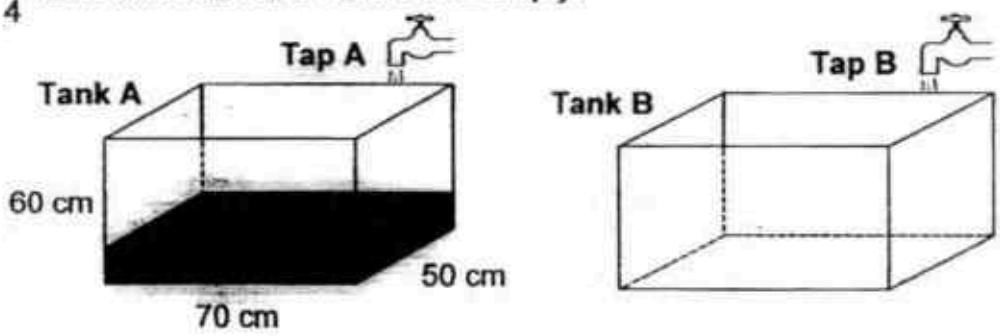
(b) What is the maximum number of small pizzas that can be made with the remaining dough from both girls?

Ans: (a) _____ [1]

(b) _____ [4]

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18 Two identical rectangular tanks are shown below. At first, Tank A was $\frac{1}{4}$-filled with water and Tank B was empty.



(a) How many litres of water were there in Tank A at first?

(b) Both taps were turned on at the same time. The water from Tap A flowed at a rate of 2 ℓ / min. The water from Tap B flowed at a rate of 3.5 ℓ / min into Tank B. How long did it take for the water level in both tanks to be the same?

Do not write in this space

Ans: (a) _____ [2]

(b) _____ [3]

End of Paper

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EXAM PAPER 2015
LEVEL : PRIMARY 6
SCHOOL : METHODIST GIRLS' SCHOOL PRIMARY
SUBJECT : MATHS
TERM : PRELIMINARY EXAMINATION

PAPER ONE

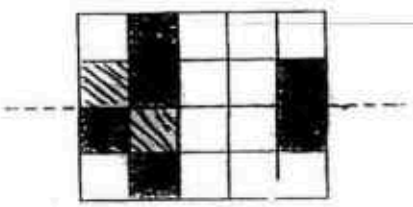
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	2	3	1	3	4	2	2	1	4
Q11	Q12	Q13	Q14	Q15					
4	2	3	2	1					

Q16. 90.55 → 100.4 – 9.85 = 90.55

Q17. $1\frac{7}{12}$ → $2+\frac{1}{3}-\frac{3}{4}=2+\frac{4}{12}-\frac{9}{12}=2\frac{4}{12}-\frac{9}{12}=\frac{28}{12}-\frac{9}{12}=\frac{19}{12}=1\frac{7}{12}$

Q18. 0.104. Q19 79° → $\angle EOB = 90° - 39° = 51°, \angle AOC = 180° - 39° = 141°, \angle AOD = 360° - (180°+50°+51°) = 360° - 281° = 79°$

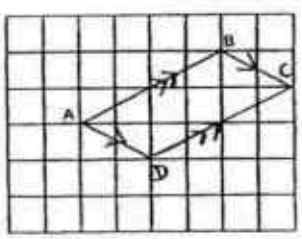
Q20. SEE PICTURE



Q21. CDEF

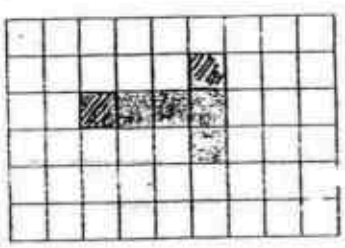
Q22. 2500m → TIME → 10 minutes $= \frac{1}{6}h, SPEED \rightarrow \frac{15km}{h}, Distance \rightarrow \left(\frac{1}{6} \times 15\right) = \frac{5}{2}km = 2.5\ km$

Q23. SEE PICTURE



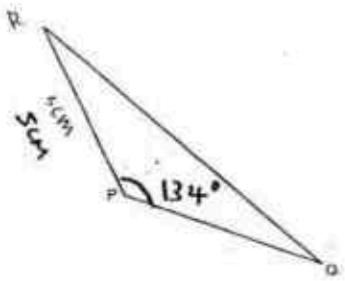
Q24. SEE PICTURE

24 In the grid below, draw in the number of square(s) needed, such th shaded figure below shows the net of a cube



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Q25. SEE PICTURE



Q26. $144cm^2$ → Area → $(12 \times 12)cm^2 = 144cm^2$

Q27. $\frac{7}{15}$, *Blue* → $21, \frac{21}{45} = \frac{7}{15}$ Q28. 90 +86 +80 + 74 = 330, class 5E → 400 – 330 =70

Q29. 18 goldfish and angelfish. 1 set → \$3 +\$5 = \$8, \$72 ÷\$8=9, 9+9=18

Q30. 25:72 → $\frac{4}{16} + \frac{8}{18} = \frac{1}{4} + \frac{1}{9} = \frac{9}{36} + \frac{16}{36} = \frac{25}{36}$

PAPER TWO

Q1. 30° → $\angle ABD = (180° - 68°) \div 2 = 56°, \angle ABD = \angle BDC, \angle BCD = 180° - (94° + 56°) = 30°$

Q2. $(\frac{3m-2}{2})$ mangoes → $3m - 2 \div 2 = \frac{3m-2}{2}$ Q3. 1806

Q4. \$250 → 100%-30%=70%, 70%→\$175,10%→\$175÷7=\$25, \$25 x 10 = 250 Q5.\$25.80 → Money → $\frac{1}{3}$ *storybook*, $\frac{2}{3}$ *remainder* $\frac{1}{4}$ *pen*, $\frac{3}{4}$ *left*, *left* $\frac{1}{2}$ → \$12.90, *at first* 1 → \$12.90 x 2 = \$25.80

Q6. 135 large cups→ regular – 155 x \$6.50 =\$1007.50, large 135 x \$7.20 = \$972, \$1007.50 +\$972 =\$1997.56

Q7. 12 people → 170 x 2 = 340 (Total G +B) 140 x 2 = 280 (New average) 340 – 280=60, 140-135=5 (difference), 60 ÷ 5 = 12. Q8. 11.55am → Jack's speed →6 ÷24=$\frac{1}{4}$, $\frac{1}{4}h$ = 15*min*

Q9a. $\angle DAE = 90° - 54° = 36°$ Q9b. 63°→$\angle ACE = 180° - (27° + 90°) = 63°$

Q10a. $\frac{11}{40}$ → $\frac{66}{240} = \frac{11}{40}$ Q10b. 84 children → Chocolate + coffee → 30 + 54 = 84

Q11a. 225 beads → $\frac{4}{5} \times \frac{7}{9} = \frac{28}{45}$, $\frac{28}{45} + 85$ →*total*. $1 - \frac{28}{45} = \frac{17}{45}, \frac{17}{45}$ → 85, $\frac{45}{45}$ →5 x 45 = 225

Q12. 3.5cm² Area, D → $(\frac{\pi r^2}{4})cm^2 = (\pi \times 10 \times 10 \times \frac{1}{4})cm^2 = 25\pi\ cm^2$
= $(25 \times 3.14)cm^2$
= $78.5\ cm^2$
Area, Δ → $(\frac{1}{2} \times 10 \times 15)\ cm^2 = 75\ cm^2$

Q13. \$100 → 1U + 2p + 2U+ 1P→\$219, 3U +3P →\$219, 1.5P + 12 + 3P→\$219, 4.5P →\$219 – 12 =\$207, 1P → \$207 ÷ 4.5 = \$46, \$54 + \$46 = \$100

Q14.a. 396cm Total perimeter → 132 x 3 = 396. Q14b. 8568cm²→ total area →2772 =1386+882+3528 = 8568

Q15a. $9\frac{1}{2}h$ Q15b. \$256 → 613 – 357 = 256

Q16a. \$750 →W →\$336 +\$414 = \$750 Q16b. 30% →1086 + 644 = 1730, 100-40=60, 750÷60=12.5, 12.5 x 100=1250, 1730-1250=480, 480 -336 =144, $\frac{144}{480}$ x 100 = 30.

Q17a. 10 large pizzas → L : S , 2:5, 10:25 , 2X5 = 10,

Q17b. 2litre →100 x 2 = 200, 55→200*f*, 15→(200÷5)g = 40G, 500÷40 ≈ 12

Q18a. $\frac{1}{4}$ *x 60 x 70 x 50 cm*, 52.5*litre* Q18b. 52500 ÷ 1500 = 35.

THE END

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RED SWASTIKA SCHOOL

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2015 PRELIMINARY EXAMINATION
MATHEMATICS
PAPER 1

Name : _____ ( )

Class : Primary 6 / ___ ___ _____

Date : 27 August 2015

BOOKLET A

15 Questions
20 Marks
Duration of Paper 1 (Booklets A & B): 50 minutes

Note:

1. Do not open this Booklet until you are told to do so.
2. Read carefully the instructions given at the beginning of each part of the Booklet.
3. Do not waste time. If a question is difficult for you, go on to the next one.
4. Check your answers thoroughly and make sure you attempt every question.
5. In this booklet, you should have the following:
   (a) Page 1 to Page 6
   (b) Questions 1 to 15
6. You are not allowed to use a calculator.

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Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

---

1 What is the value of 2 hundred thousands, 34 hundreds and 5 tens?

(1) 2 390
(2) 5 450
(3) 200 390
(4) 203 450

2 Find the value of $21 - 5 + 3 \times 4 + 2$.

(1) 10
(2) 22
(3) 26
(4) 38

3 Lindy cut $\frac{1}{7}$ m of ribbon equally into 5 smaller pieces. Find the total length of 2 of the smaller pieces of ribbon.

(1) $\frac{1}{35}$ m

(2) $\frac{2}{35}$ m

(3) $\frac{5}{7}$ m

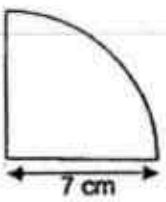
(4) $1\frac{2}{5}$ m

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4 The usual price of a bag in a shop was $50. During a sale, there was a 20% discount on all items in the shop. Find the amount of discount given for the bag.

(1) $10
(2) $20
(3) $30
(4) $40

5 Find the perimeter of the quadrant below. (Take $\pi = \frac{22}{7}$)



(1) 11 cm
(2) 18 cm
(3) 25 cm
(4) 44 cm

6 The area of Squares X and Y are 36 cm^2 and 64 cm^2 respectively. What is the ratio of the length of Square X to the length of Square Y?

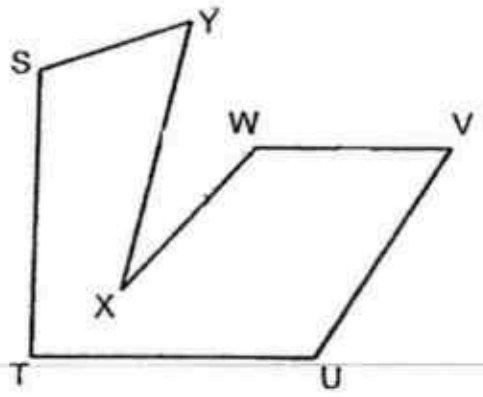
(1) 3 : 4
(2) 3 : 8
(3) 9 : 8
(4) 9 : 16

7 Mr Ng can type 60 words in 20 seconds. How many words can he type in 1 minute?

(1) 120
(2) 180
(3) 300
(4) 1 200

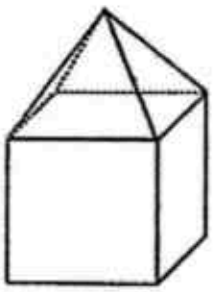
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8 How many pair(s) of parallel lines are there in the figure below?



(1) 1
(2) 2
(3) 3
(4) 4

9 Shaun glued a pyramid to a cube as shown below. He then painted all the surfaces. Given that the area of each triangular face is 8 cm^2, and the area of each square face is 16 cm^2, find the total area of the faces painted.



(1) 72 cm^2
(2) 96 cm^2
(3) 112 cm^2
(4) 120 cm^2

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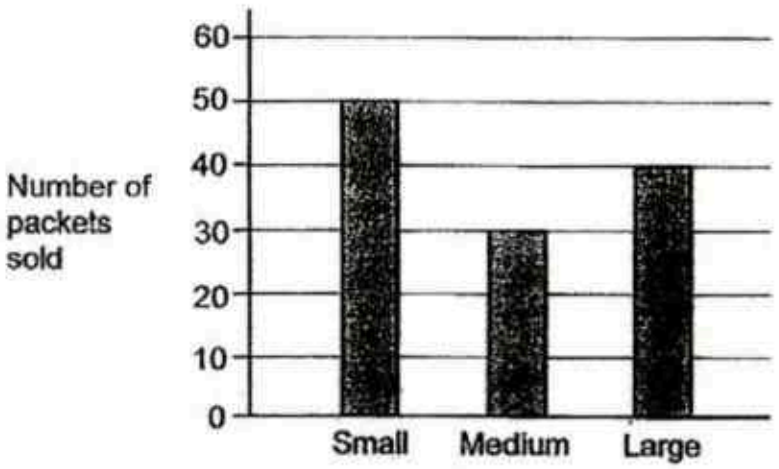
10 The table below shows the number of books borrowed by a group of students.

Number of books borrowed by each student	0	1	2	3	4	5
Number of students	8	10	2	6	7	3

How many students borrowed at least two books?

(1) 12
(2) 14
(3) 16
(4) 18

11 The bar graph below shows the number of packets of flour sold in three different sizes, small, medium and large.



What fraction of the packets of flour sold were medium size?

(1) $\frac{1}{3}$

(2) $\frac{1}{4}$

(3) $\frac{3}{10}$

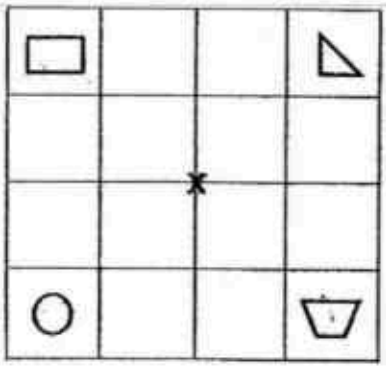
(4) $\frac{5}{12}$

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12 Kaylene travelled at an average speed of 80 km/h from Town A to Town B. During her journey, she took a break of 5 minutes. The distance between the two towns was 360 km. Find the total time taken for her journey.

(1) 4 h 30 min
(2) 4 h 35 min
(3) 4 h 40 min
(4) 4 h 55 min

13 Denise was standing at point X in the square grid below, facing the circle.



Which of the following instructions should Denise follow in order to face the trapezium eventually?

(1) Turn 90° clockwise, followed by a 270° anti-clockwise turn
(2) Turn 90° anti-clockwise, followed by a 180° colockwise turn
(3) Turn 270° clockwise, followed by a 90° anti-clockwise turn
(4) Turn 270° anti-clockwise, followed by a 180° clockwise turn

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14 The table below shows the rates of renting a canoe at a sea sport resort.

Cost of renting a canoe	
First 2 hours	$2 per hour
Subsequent half an hour or part thereof	$1.50 per half an hour

Rahim wants to rent a canoe from 1015 to 1330. How much does he have to pay?

(1) $6.50
(2) $7.00
(3) $8.50
(4) $12.50

15 Study the number pattern below.

A	B	C	D
1		2	3
	5	4	
6			7
8		9	10
	12	11	
...			...
...		...	...

If the pattern continues, in which column will the number 62 appear at?

(1) A
(2) B
(3) C
(4) D

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RED SWASTIKA SCHOOL

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2015 PRELIMINARY EXAMINATION

MATHEMATICS
PAPER 1

Name : _____ ( )

Class : Primary 6 / _____

Date : 27 August 2015

BOOKLET B

15 Questions
20 Marks

In this booklet, you should have the following:
(a) Page 7 to Page 13
(b) Questions 16 to 30

MARKS

	OBTAINED	POSSIBLE
BOOKLET A		20
BOOKLET B		20
TOTAL		40

Parent's Signature : _____

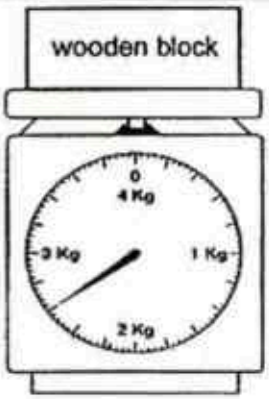
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Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

16 List all the common factors of 6 and 12

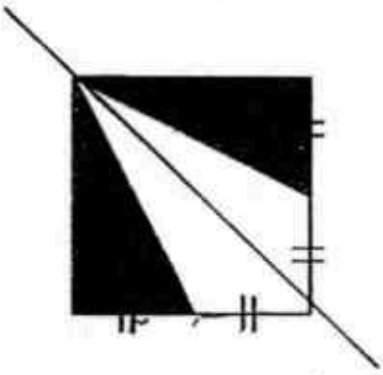
Ans: _____

17 What is the mass of the wooden block below?



Ans: _____ kg

18 The figure below shows a square. What fraction of the square is shaded?

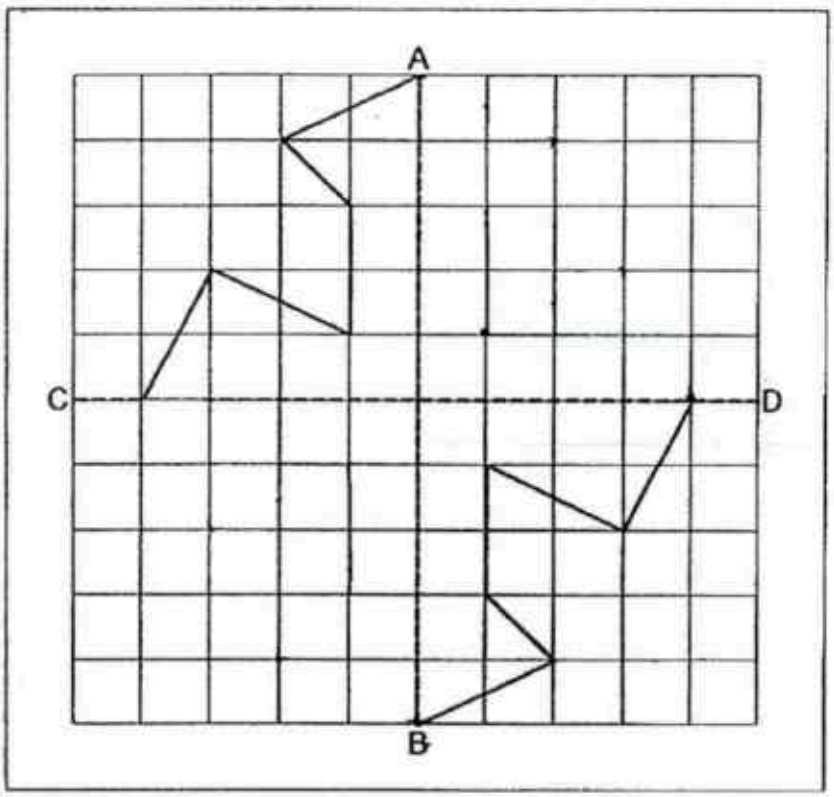


Ans: _____

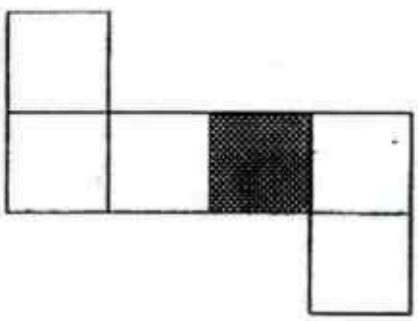
3

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19 Complete the diagram below such that Lines AB and CD are the lines of symmetry.



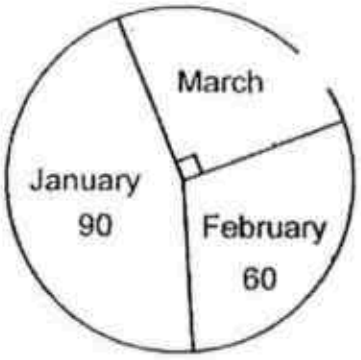
20 The net of a cube is shown below. The shaded square face is the base of the cube. Put an 'X' on the square that will represent the top face of the cube.



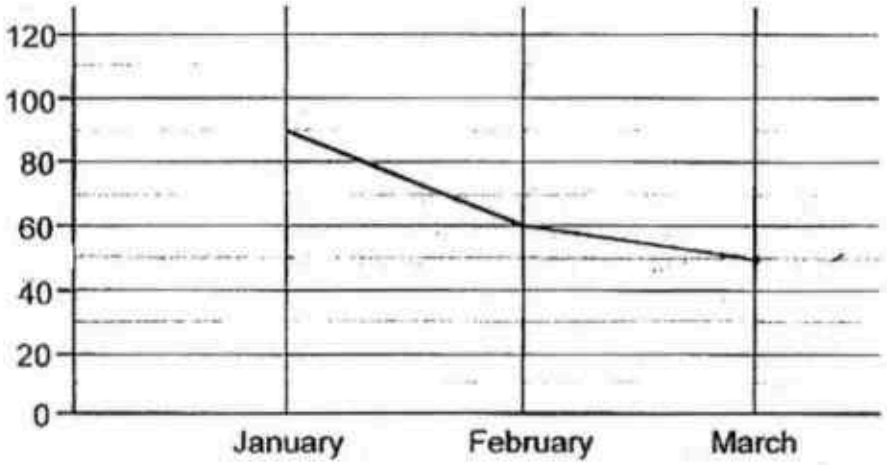
2

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The pie chart below shows the number of bags sold in each month by ABC shop from January to March Use the information to answer Questions 21, 22 and 23.



21 Using the information above, complete the line graph below to represent the number of bags sold in February and March.



22 Find the total number of bags sold from January to March.

Ans: _____

23 What was the percentage decrease in the number of bags sold in February as compared to January?

Ans: _____%

3

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24 Li Ming and Tom had a race against each other. The average speed of Li Ming was 120 m/min and the average speed of Tom was 200 m/min. How long did Tom take to complete the race if Li Ming completed the race in 10 minutes?

Ans: _____ min

---

25 Timothy and Jane started jogging from the same place at the same time but in opposite directions along a straight road. Timothy's speed was 10 km/h while Jane's speed was 8 km/h. After jogging for 3 hours, how far apart were they?

Ans: _____ km

2

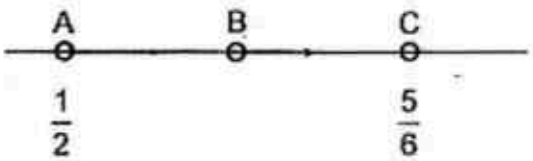
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Questions 26 to 30 carry 2 marks each. Show your workings clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

26 Find the value of 40.01 – 12.58. Round off your answer to the nearest tenth.

Ans: _____

27 In the number line below, A represents $\frac{1}{2}$, C represents $\frac{5}{6}$ and AB = BC. What is the value of B? Express your answer as a fraction in its simplest form.

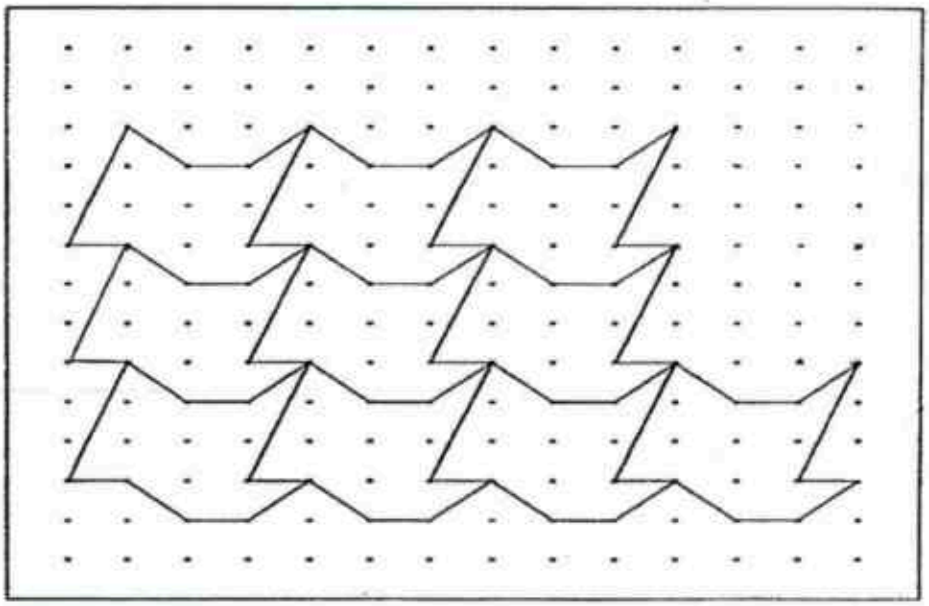


Ans: _____ _____

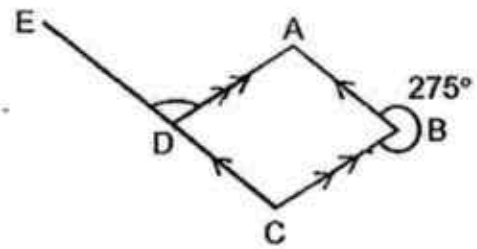
4

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28 The pattern in the box below shows part of a tessellation. Extend the tessellation by drawing two more unit shapes in the space provided within the box.



29 In the figure below, not drawn to scale, ABCD is a rhombus and CDE is a straight line. Find $\angle ADE$.



Ans: _____°

4

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30 The table below shows the marks scored by 4 students in a test. The average mark scored by them was $k + 2$.

Pupil	Anthony	Benjamin	Carl	Danny
Marks scored	60	k	70	$k + 8$

Find Benjamin's score.

Ans: _____

END OF PAPER

2

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RED SWASTIKA SCHOOL

RED SWASTIKA SCHOOL

2015 PRELIMINARY EXAMINATION
MATHEMATICS
PAPER 2

Name : _____

Class : Primary 6 / _____

Date : 27 August 2015

18 Questions
60 Marks
Duration of Paper 2: 1 hour 40 minutes

Note:
1. Do not open this Booklet until you are told to do so.
2. Read carefully the instructions given at the beginning of each part of the Booklet.
3. Do not waste time. If a question is difficult for you, go on to the next one.
4. Check your answers thoroughly and make sure you attempt every question.
5. In this paper, you should have the following:
   (a) Page 1 to Page 14
   (b) Questions 1 to 18
6. You are allowed to use a calculator.

MARKS

	OBTAINED	POSSIBLE
PAPER 1		40
PAPER 2		60
TOTAL		100

Parent's Signature : _____

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Questions 1 to 5 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

1 Zann had a bag of 297 red and blue beads in it. After taking 24 red beads and $\frac{1}{3}$ of the blue beads out, she found that the number of red beads was twice the number of blue beads. How many blue beads did she have at first?

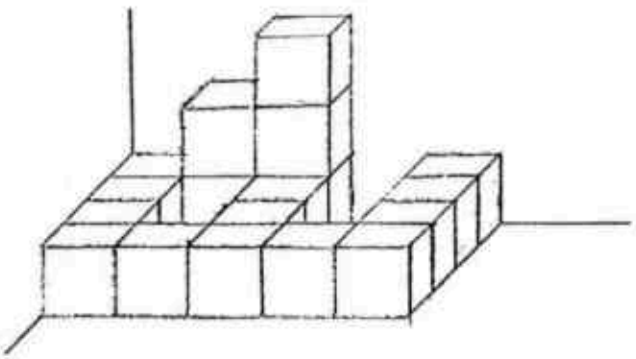
Ans: _____

2 Mrs Tan bought $2\frac{1}{3}$ kg of flour. She used $1\frac{1}{2}$ kg the flour to bake some cakes and gave $\frac{1}{4}$ of the remainder to her neighbour. How much flour had she left?

Ans: _____ kg

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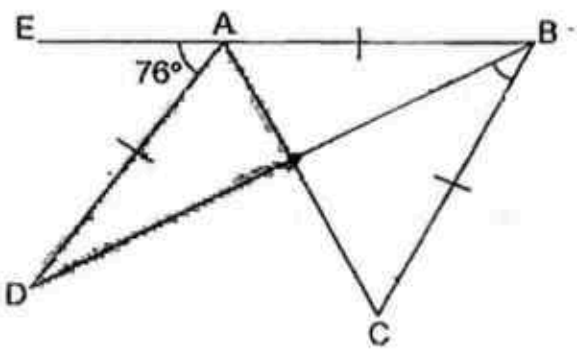
3 Geraldine stacked some 2-cm cubes as shown below. How many more such cubes does she need in order to form a bigger cube of edge 10 cm?



Ans: _____

---

4 In figure below, ABC is an equilateral triangle and ABD is an isosceles triangle. BAE is a straight line. Find ∠y.



Ans: _____ °

4

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5 Amy had twice as many fifty-cent coins as ten-cent coins. Given that the total value of all her ten-cent coins is $\$p$, express the number of her fifty-cent coins she had in terms of p.

Ans: _____

2

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For Questions 6 to 18, show your working clearly in the space below each question and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (50 marks)

---

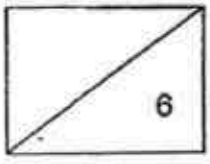
6 A farm has some sheep and geese with a total of 272 legs. There are 16 more geese than sheep in the farm. Given that each goose has 2 legs and each sheep has 4 legs, find the number of sheep in the farm.

Ans: _____ [3]

---

7 $\frac{3}{5}$ of the marbles in a bags were red. $\frac{1}{3}$ of the remainder were blue and the rest were green. Given that there were 20 more red marbles than green marbles, how many marbles were there in the bag?

Ans: _____ [3]



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8 A farmer had a total of 1 250 chickens and ducks in his farm. 72% of them were chickens and the rest were ducks. After selling some chickens. the percentage of chickens became 50% of the animals left in the farm. How many chickens did the farmer sell?

Ans: _____ [3]

---

9 Mandy is twice as old as Han Wen now. In 10 years' time, the ratio of Mandy's age to Han Wen's age will be 8 : 5. How old is Han Wen now?

Ans: _____ [3]

6

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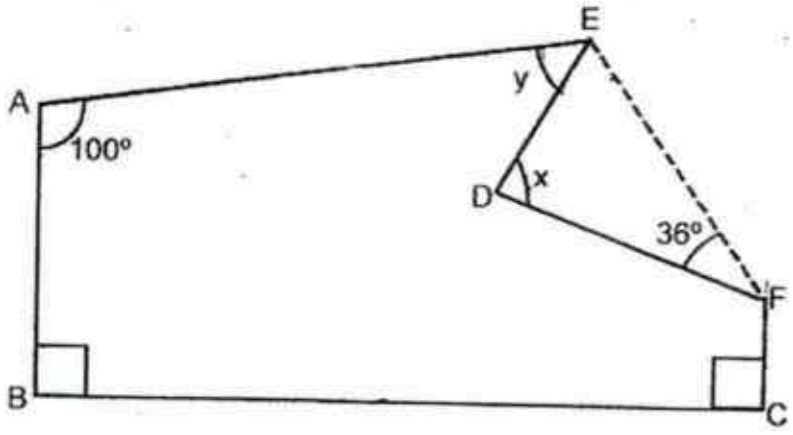
10 Triangle XYZ is an equilateral triangle with perimeter of 120 cm. Find the perimeter of the shaded part of the figure given that the three unshaded parts are identical. (Take $\pi = 3.14$)

Ans: _____ [3]

3

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11 The figure below shows a trapezium, ABCD, folded along the dotted line.



(a) Find $\angle x$.

(b) Find $\angle y$.

Ans: (a) _____ [1]

(b) _____ [2]

3

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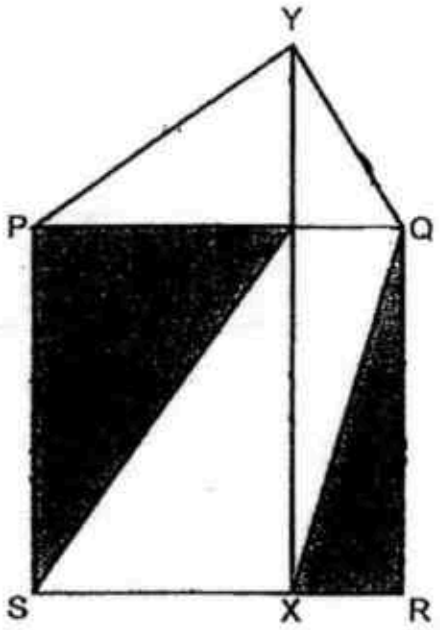
12 The average capacity of a tank and 17 identical jugs was 1 200 ml. Given that the capacity of the tank was 8 000 ml, find the capacity of each jug.

Ans: _____ [4]

4

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13 The figure below is made up of a square, PQRS, and a triangle, PQY. The length of the square PQRS is 8 cm and XY is parallel to PS. The ratio of the total area of the shaded parts to the total area of the unshaded parts of the figure is 2 : 3. Find the total area of the figure.

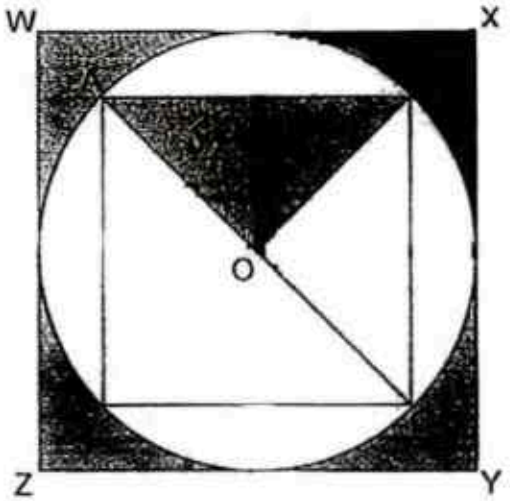


Ans: _____ [4]

4

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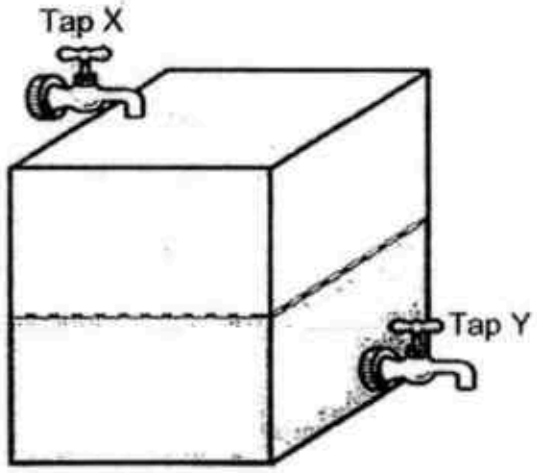
14 The figure below shows a square, WXYZ, a circle and another smaller square, ABCD, inside. O is the centre of the circle and AC is the diameter of the circle. Given that the radius of the circle is 10 cm, find the total area of the shaded parts. (Take $\pi = 3.14$)



Ans: _____ [4]

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15 A tank with a square base of side 50 cm was half-filled with water at first. At 10.00 a.m, Tap X with water flowing out at a rate of 2 litres per minute and Tap Y with water draining water out of the tank at a rate of 0.6 litres per minute were turned on simultaneously. At 10.45 a.m. the tank was filled to the brim. Find the height of the tank.



Ans: _____ [5]

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16 Alice, Bala and Chen Xin shared a total of $4 500. Bala received $660, Chen Xin received $744 and Alice received the rest. Alice gave 50% of her share to Bala. Bala then gave some money to Chen Xin. In the end, the amount of money Chen Xin had to the amount of money Alice had was in the ratio of 1 : 2. Find the amount of money that Bala gave to Chen Xin.

Ans: _____ [5]

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17 There are some red and green apples in a box. If 20 red apples are removed from the box, the number of red apples left will be $\frac{1}{5}$ of the total number of apples left. If 20 green apples are removed from the box, the number of red apples left will be $\frac{1}{3}$ of the total number of apples left.

(a) Find the number of red apples in the box.

(b) What fraction of the apples in the box is green?

Ans: (a) _____ [3]

(b) _____ [2]

5

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18 Ali, Ben, Charles and Dave had some stickers. Ali and Ben had a total of 17 stickers. Ben and Charles had 16 stickers in all. The product of the number of Ali's stickers and the number of Charles' stickers was 30. Given that Ali had $\frac{2}{3}$ as many stickers as Dave, how many stickers did the children have altogether?

Ans: _____ [5]

END OF PAPER 2

5

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EXAM PAPER 2015
LEVEL : PRIMARY 6
SCHOOL : RED SWASTIKA SCHOOL
SUBJECT : MATHEMATICS
TERM :PRELIMINARY EXAMINATION

PAPER ONE – BOOKLET A

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	**2**	**2**	**1**	**3**	**1**	**2**	**1**	**3**	**4**
Q11	Q12	Q13	Q14	Q15					
2	**2**	**4**	**3**	**1**					

Q16 – 1,2,3,6

Q17 – 2.6kg – 1000 25 = 40, 15 x 40 =600

Q18 - ½

Q19 – SEE PICTURE

Q20- SEE PICTURE

Q21 – SEE PICTURE

Q22 – 200 bags – 90 + 60 +50=200

Q23 - $33\frac{1}{3}\%$ 90 – 60 = 30, $\frac{30}{90}$ x 100 = $\frac{300}{9} = \frac{100}{3} = 33\frac{1}{3}\%$

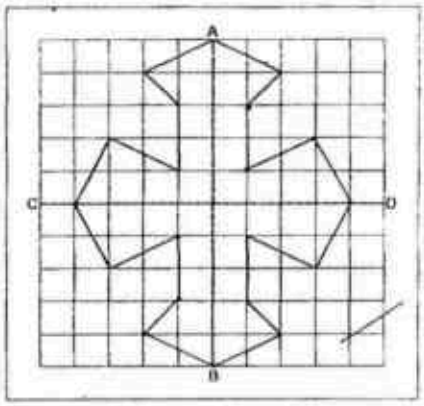
Q24 – 6min – Distance – 120 x 10=1200m, 1200 ÷200m/min = 6min

Q25 – 54km – distance travelled by Timothy – 10 x 3 =30km, distance – 8 x 3 = 24, 30 + 24 = 54km

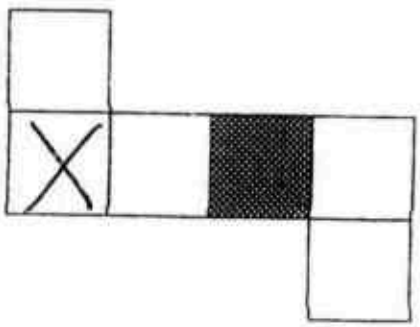
Q26. 27.4

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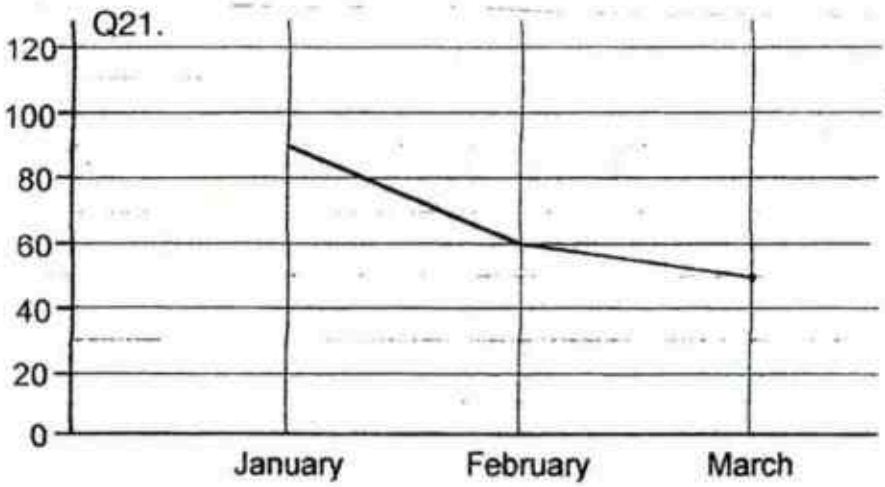
Q19 Complete the diagram below such that Lines AB and CD are the lines of symmetry



Q20



Q21.



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Q27 - $\frac{2}{3}$

Q28- SEE PICTURE

Q29 - $\angle ABC$ – 360 – 275 = 85, $\angle ADE$ – 180 -85 = 95

Q30 – 65 –
(K+2) x 4 = 4k +8(total),
60+70+k+k+8=130+2k+8= 130+8=2k

Q1-117 blue beads – 70 – 297 -24=273, 1U 273 ÷7=39,
3U 39 X 3 =117

Q2 - $\frac{5}{8}$ kg → $2\frac{1}{3} - 1\frac{1}{2} = \frac{14}{6} - \frac{9}{6} = \frac{5}{6}$

Q3 – 107 more cubes - 10 ÷ 2 = 5, 5 x 5 x 5 =125 cubes needed, 125 – 18 = 107

Q4 - 22° -
$\angle x - 180 - 60 - 76 = 44, \angle ADB$ →180 -44-60=38,
$\angle K$ →180 − 44 − 38 = 98, $\angle y$ → 180 − 60 − 98 = 22

Q5-20p →
50¢:10¢
2:1
Set 1 - $1:$0.10 ($0.90)
Set 2 - $2 : $0.20 ($1.80)
$\frac{p}{0.10}$ x 2 = $\frac{2p}{0.10}$ = 20p

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Q6 – 40 sheep
Sheep has 4 legs each
Geese has 2 legs each

25 sheep x 4 = 100
41 geese x 2 =82
total legs = 182

35 sheep – 35 x 4 =140, 35 + 16 = 51, 51 x 2 = 102, 102+140=242

40 sheep = 40 x 4 = 160, 40 + 16 = 56, 56 x 2 = 112, 112 +160=272

Q7 – 60 marbles
5U → 20, 1U → 20÷5=4, 15U→ 4 X 15=60

Q8 -550 chickens
Total - 250→ 1250,
1U → 1250÷25=50,
11U → 50 X 11= 550

Q9 – 15 years old
M: HW
6 : 3
8 : 5 (plus ten)
2U → 10, 1U → 10÷2=5,3U→ 5X3=15

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Q10 – 62.8cm
120÷3 =40cm
40÷2=20cm
circum of figure➔
$\frac{60}{360}$X 3.14 x 20 x 2 = $20\frac{14}{15}$cm,
perimeter ➔ $20\frac{14}{15}$cm x 3 = $62\frac{4}{5}$ = 62.8cm

Q11a – 180 – 100 = 80

Q11b - $\angle q$ ➔$180° - 80° - 36° = 64°$,
$\angle y$ ➔$180° - 64 - 64 = 52$

Q12 - 800ml
17 + 1 =18,
total capacity ➔1200 x 18 = 21600
21600 – 8000 = 13600
1 jug – 13500 ÷ 17 = 800

Q13 – SEE PICTURE
Shaded : Unshaded
Shaded part = $\frac{1}{2}$ of PQRS,
2U ➔$\frac{1}{2}$**X 8 X 8 = 32cm²**
1U ➔**32 ÷ 2 = 16*cm***
5u ➔16 x 5 = 80 cm

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Q14 –

Area of shaded triangle → $\frac{1}{2}$ X 10 X 10 =50cm²

area of $\frac{1}{4}$ circle → 3.14 x 10 x 10 x $\frac{1}{4}$ =78.5cm

AREA OF BLUE square →

10 X 10 = 100CM

area of pink figure → 100-78.5 = 21.5cm

(21.5 x 4) + 50 = 136CM

Q15 – 50.4cm

$\frac{1}{2}$ x 50 x50 = 1250cm

2 LITRE = 2000cm

0.6litre = 600cm

1400 ÷50÷50=0.56cm

0.56cm x 45 = 25.2cm

25.2 x 2 = 50.4cm

Q16. $30

A→ $4500 - $660-$744 = $3096, (left) → $\frac{1}{2}$ x $3096 = $1548

(A) 2U = $1548

(C) 1u → $1548÷2 = $744,

$774 - $744= $40

Q17a. 50 red apples

2U →40 + 20=60, 1U →60÷2=30, 30+20=50

Q17b. $\frac{12}{17}$ →40 →30 x 4 = 120, 120+50 =170, $\frac{120}{170} = \frac{12}{17}$

Q18. 31 stickers

A→6 (20)

1U →6÷2=3

3U→3 X 3=9

B→17 – 6 =11

Total – 11+9+5+6=31 THE END

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HENRY PARK PRIMARY SCHOOL
2015 PRELIMINARY EXAMINATION
MATHEMATICS
PRIMARY 6

PAPER 1
(BOOKLET A)

Name: _____ ( ) Parent's Signature

Class: Primary 6 _____ _____

Marks:

Paper 1	Booklet A	20
	Booklet B	20
Paper 2		60
Total		100

Total Time for Booklets A and B: 50 min

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Shade your answers in the Optical Answer Sheet (OAS) provided.
You are **not** allowed to use a calculator.

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Booklet A:
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each.
For each of the questions, four options are given. One of them is the correct answer. Choose the correct answer (1, 2, 3 or 4). Shade the correct oval on the Optical Answer Sheet provided.

(20 marks)

1. In 84.569, what does the digit 5 stand for?

   (1) 5 tens

   (2) 5 ones

   (3) 5 tenths

   (4) 5 hundredths

2. $6 \times (5 + 3) \div 3 =$ _____

   (1) 11

   (2) 16

   (3) 31

   (4) 36

3. Which of the following is the same as 8 070 ml?

   (1) 8 *ℓ* 7 ml

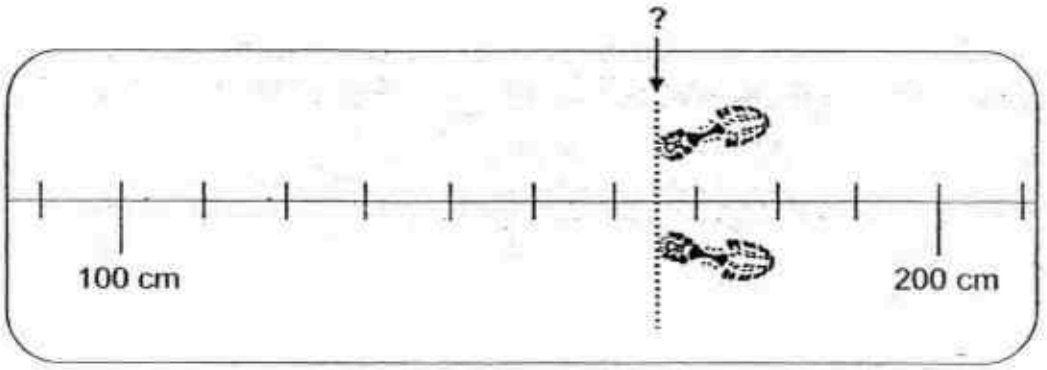
   (2) 8 *ℓ* 70 ml

   (3) 80 *ℓ* 7 ml

   (4) 80 *ℓ* 70 ml

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4. David did his standing broad jump and achieved the distance shown below. Which one of the following readings is closest to what he achieved?



(1) 1.06 m

(2) 1.56 m

(3) 1.66 m

(4) 1.76 m

5. The total length of stick A and stick B is 9 m. Together with stick C, the average length of the three sticks is 6 m. What is the length of stick C?

(1) 3 m

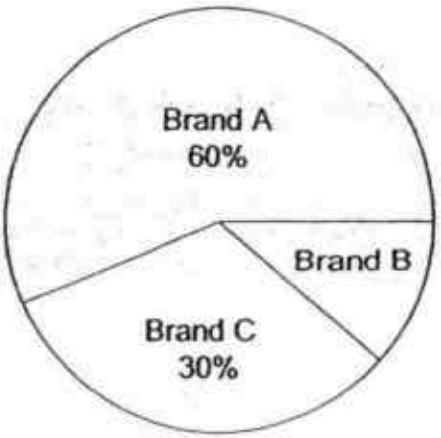
(2) 9 m

(3) 12 m

(4) 15 m

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6. The pie chart below shows how Gary spent his money on different brands of shoes.



He spent $15 more on Brand C shoes than on Brand B shoes. How much did he spend on Brand A shoes?

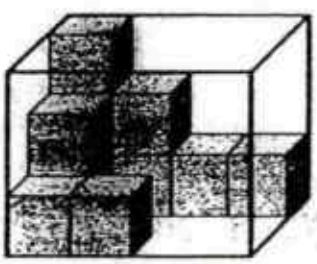
(1) $30

(2) $45

(3) $60

(4) $90

7. The figure below shows a transparent rectangular container partially filled with unit cubes. How many cubes can the container hold altogether?



(1) 11

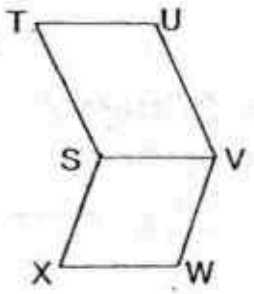
(2) 25

(3) 36

(4) 45

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8. In the figure below, STUV is a parallelogram and VWXS is a rhombus. Which of the following pairs of lines are parallel?



(1) VW and UV

(2) VW and TS

(3) TU and XW

(4) TU and SX

9. Sarah has some mystery and comic books. The number of mystery books is $\frac{2}{3}$ the number of comic books. What is the ratio of the number of mystery books to the total number of books she has?

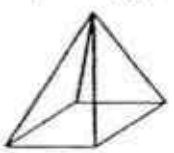
(1) 2 : 3

(2) 2 : 5

(3) 3 : 2

(4) 3 : 5

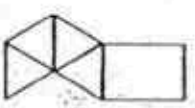
10. The figure below shows a square pyramid.



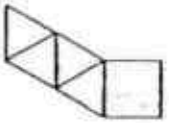
Which one of the following is the net of the square pyramid?



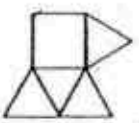
(1)



(2)



(3)



(4)

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11. Kevin cut a ribbon measuring 274.6 m into 20 equal pieces. What is the length of each piece of ribbon? Give your answer in centimetres.

(1) 1.373 cm

(2) 13.73 cm

(3) 137.3 cm

(4) 1373 cm

12. Peter is n years old now. His sister is 3 times as old as he.
What will their total age be in 5 years' time?

(1) $4n$ years

(2) $(4n - 5)$ years

(3) $(4n + 5)$ years

(4) $(4n + 10)$ years

13. The table below shows Jose's salary each year from 2011 to 2015.

Date	Salary ($)
2011	2000
2012	2124
2013	2226
2014	2318
2015	2409

During which one-year period was the increase in Jose's salary the least?

(1) Between 2011 and 2012

(2) Between 2012 and 2013

(3) Between 2013 and 2014

(4) Between 2014 and 2015

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14. The figure below, not drawn to scale, shows 3 triangles X, Y and Z overlapping one another. The area of triangle X is $\frac{1}{3}$ the area of triangle Y and the area of triangle Y is $\frac{2}{3}$ the area of triangle Z.
Express the unshaded area of triangle Y as a fraction of the unshaded area of triangle Z.



(1) $\frac{2}{9}$

(2) $\frac{2}{7}$

(3) $\frac{4}{9}$

(4) $\frac{4}{7}$

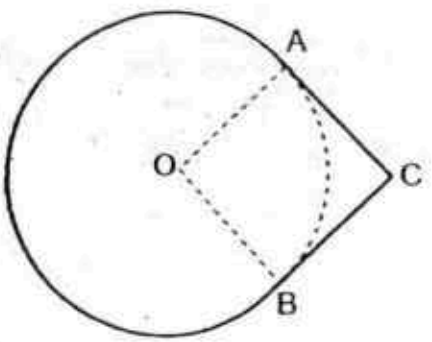
15. The figure below is formed by a square AOBC and a circle with centre O. AOB is part of the circle. The length of AO is 7 cm. Find the perimeter of the figure. (Take $\pi = \frac{22}{7}$)

(1) 33 cm

(2) 40 cm

(3) 47 cm

(4) 58 cm



(Go on to Booklet B)

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HENRY PARK PRIMARY SCHOOL
2015 PRELIMINARY EXAMINATION
MATHEMATICS
PRIMARY 6

PAPER 1
(BOOKLET B)

Name: _____ ( )

Class: Primary 6_____

/ 20

Total Time for Booklets A and B: 50 min

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

You are **not** allowed to use a calculator.

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Booklet B:
Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided.
For questions which require units, give your answers in the units stated.

(10 marks)

---

16. Arrange the following fractions in descending order.

$$\frac{3}{4}, \frac{2}{5}, \frac{5}{8}$$

Do not write in this space

17. Isabelle ate $\frac{1}{6}$ of a pie. She cut the remainder into 4 equal slices. What fraction of the pie was each slice?

Ans: _____

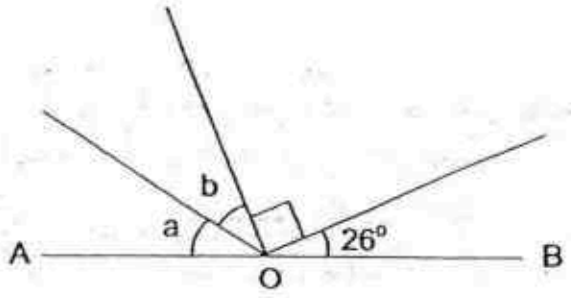
18. The opening hours of a clinic is shown below. How long is the clinic open on Saturday?

Consultation Hours:
Mon to Fri: 8.30 am – 12.30 pm
2.00 pm – 4.30 pm
6.00 pm – 11.00 pm
Sat: 8.30 am – 12.30 pm
6.00 pm – 11.00 pm
Sun/Public holidays: Closed

Ans: _____

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19. AOB is a straight line as shown in the figure. $\angle a = \angle b$ Find $\angle a$.



Do not write in this space

Ans: _____

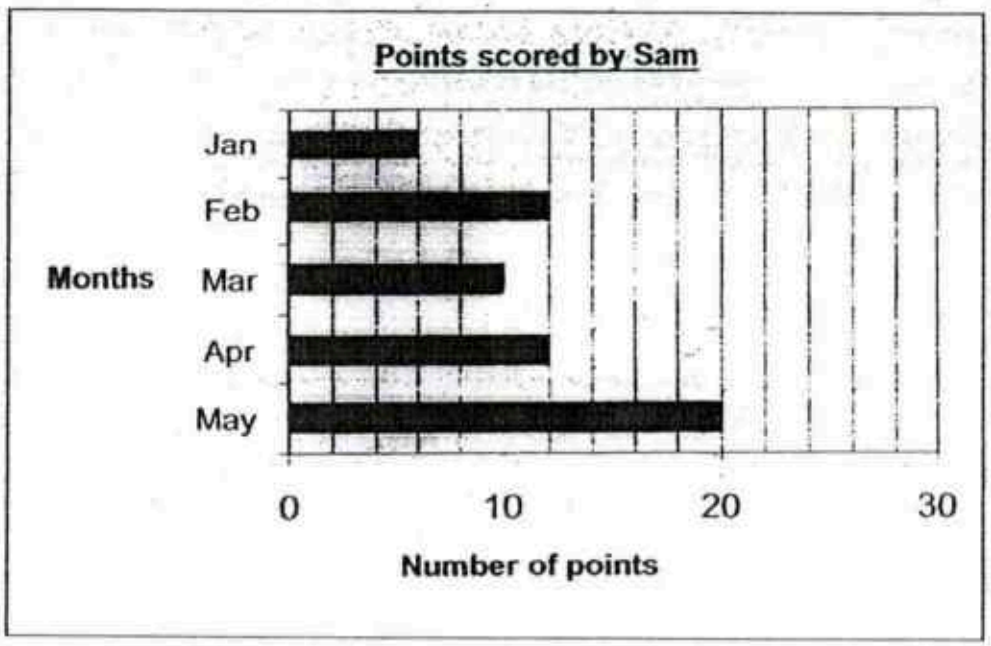
20. Mrs Ang packs 6 kg of flour into smaller packets. Each smaller packet contains 900 g of flour. How much flour is left unpacked?

Ans: _____ g

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Use the information below to answer questions 21 and 22.

The graph below shows the number of points Sam scored in the basketball matches he played in from January to May.



21. How many months did Sam score at least 10 points?

Ans: _____

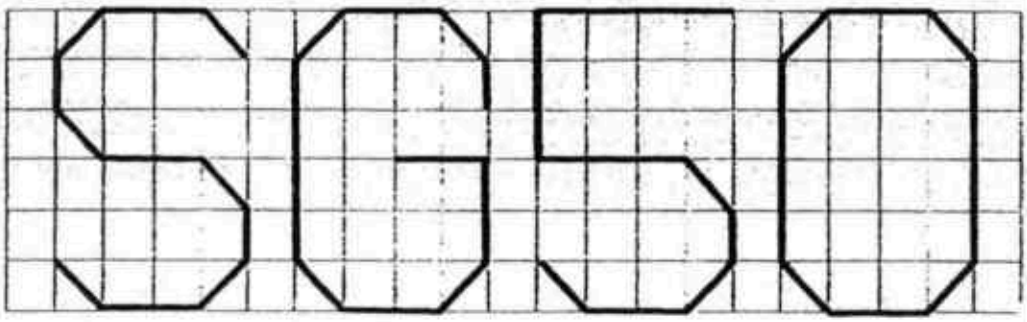
22. What is the average number of points Sam scored per month from January to May?

Ans _____

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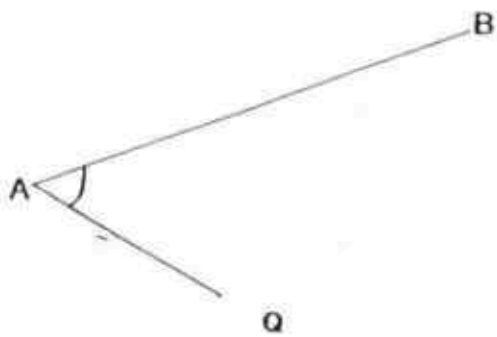
23. In the diagram below, the letters S and G and digits 5 and 0 are drawn on a square grid. List **all** the letters and/ or digits which have at least one line of symmetry.

Do not write in this space



Ans: _____

24. The figure below shows a line AB. Draw a line AQ such that AQ is 3 cm and ∠BAQ is 50°.



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25. After receiving a discount of 20%, Mrs Tan paid $56 for a watch. What was the price of the watch before the discount?

Do not write in this space

Ans: $ _____

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Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

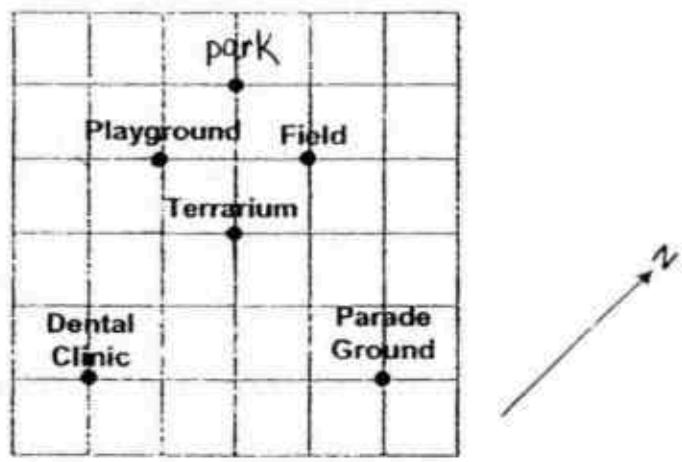
(10 marks)

Do not write in this space

26. In a stall, sweets are only sold in packets of 8. Each packet is sold at $4. One sweet is given free for every two packets bought. What is the maximum number of sweets that can be obtained with $20?

Ans: _____

27.



Refer to the square grid above and fill in the blanks with the correct location.

(a) The terrarium is east of the _____

(b) The _____ is northwest of the terrarium.

Ans: (a) _____

(b) _____

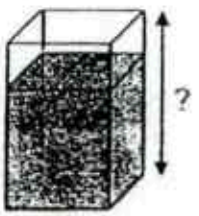
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28. Peter had $\frac{3}{8}$ as many marbles as Simon. After Simon misplaced $\frac{3}{4}$ of his marbles, Peter had 120 more marbles than Simon. How many marbles did Peter have?

Do not write in this space

Ans: _____

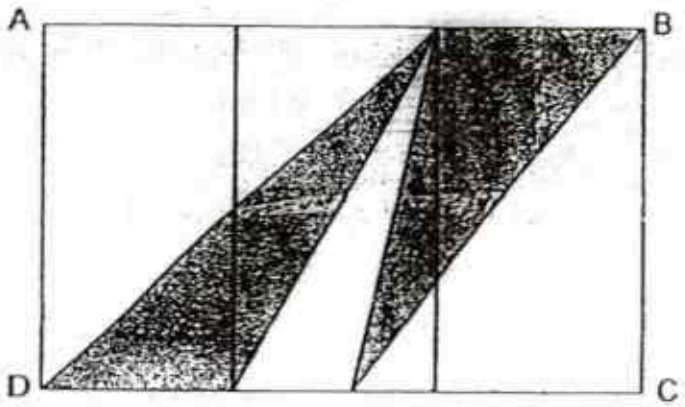
29. The base area of a rectangular tank is 20 m^2. The tank contains 120 m^3 of water when it is $\frac{3}{4}$ filled. What is the height of the tank?



Ans: _____ m

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30. The figure ABCD below is made up of 3 identical rectangles. What is the ratio of the area of the shaded parts to the area of the unshaded part? Give your answer in the simplest form.



Do not write in this space

Ans: _____

End of Paper

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HENRY PARK PRIMARY SCHOOL
2015 PRELIMINARY EXAMINATION
MATHEMATICS
PRIMARY 6

PAPER 2

Name: _____ ( )

Class: Primary 6 _____

/ 60

Time for Paper 2: 1 h 40 min

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Show your working clearly as marks are awarded for correct working.

Write your answers in this booklet.

You are allowed to use a calculator.

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Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the space provided. For questions which require units, give your answers in the units stated.

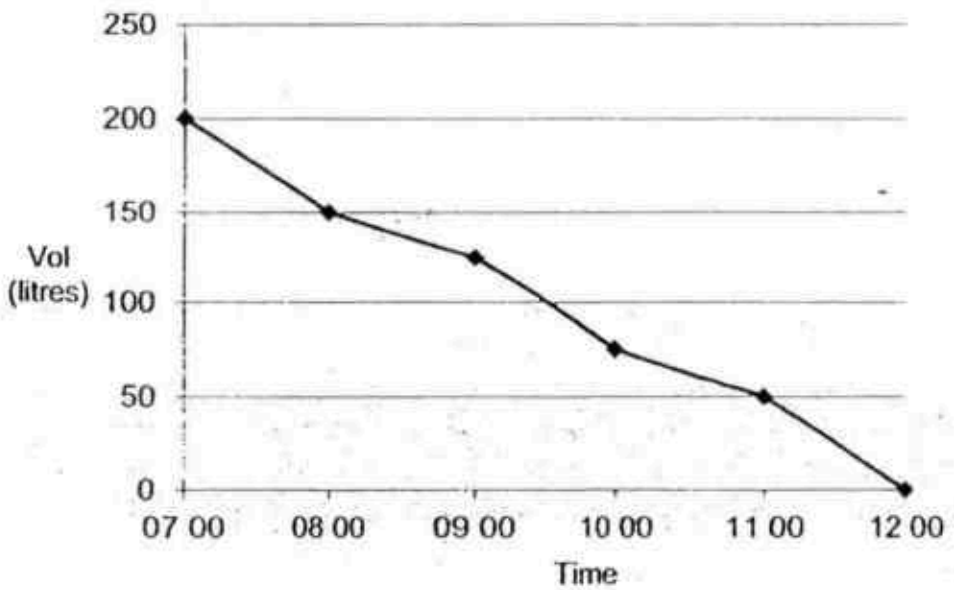
(10 marks)

1. Junfang took 5 minutes in total to fold 2 identical paper cranes and a paper boat. She took 30 seconds less to fold a boat than a crane and spent the same amount of time folding each crane. How many seconds did she take to fold the paper boat?

Do not write in this space

Ans: _____ s

2. A 200-litre tank was completely filled with water at 07 00. Water flowed out of the tank until it was completely empty at 12 00. The line graph below shows the rate of the flow of water. At what time was the tank 25% filled with water?



Ans: _____

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3. A third of Gabriel's mass is thrice that of Helen's mass. Express Helen's mass as a fraction of their total mass.

Do not write in this space

Ans: _____

4. A large bottle of oil was poured equally into 75 small bottles. Oil from 15 of these small bottles was then redistributed into the remaining small bottles. As a result, each of the remaining small bottles received 10 ml more oil. How much oil was there in the large bottle at first?



Ans: _____ ml

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5. The table below shows the number of hours each student in a class of 30 students spent playing computer games per week.

Number of hours each student spent playing computer games per week	4	5	?
Number of students	10	15	5

The average number of hours the students spent playing computer games per week was 5 hours. What is the missing number in the table?

Ans: _____

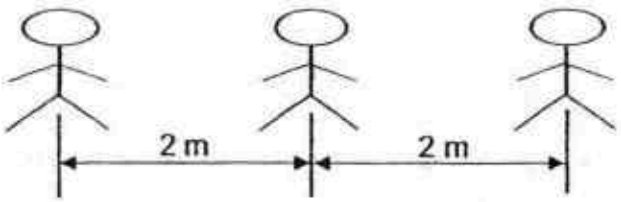
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For questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (50 marks)

---

6. 40 students lined up in a row along the corridor with an equal spacing of 2 m apart to welcome the Guest-of-Honour (GOH) at a school event. The GOH then walked along the row to shake each student's hand.



a) Starting from the first student, how far would the GOH have walked when he shook the 10^{th} student's hand?

b) When the GOH had walked a total of 58 m, how many students' hands would he have shaken?

Do not write in this space

Ans: a) _____ [1]

b) _____ [2]

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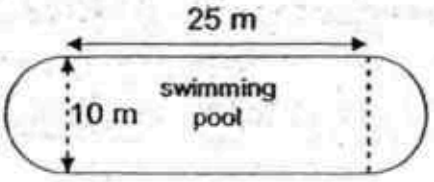
7. James used $\frac{4}{7}$ of his screws and $\frac{3}{5}$ of his nails to construct a wooden cupboard. In the end, he had an equal number of screws and nails left. Given that James had a total of 145 screws and nails at first, how many nails did he use to construct the wooden cupboard?

Do not write in this space

Ans: _____ [3]

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8. A swimming pool takes the shape of 2 semi-circles and a rectangle shown below. Andy walked 15 rounds along the perimeter of the swimming pool. What was the total distance Andy walked?
Give your answer in kilometres. (Take $\pi = 3.14$)



Do not write in this space

Ans: _____ [3]

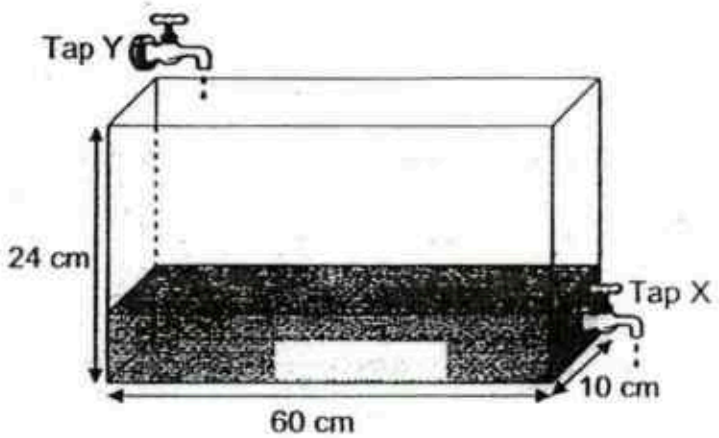
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9. A tank measuring 60 cm by 10 cm by 24 cm is $\frac{1}{4}$ filled with water.

Taps X and Y were turned on at the same time. Water was drained out from Tap X at the rate of 750 cm^3 per minute while water flowed in from Tap Y at the rate of 1050 cm^3 per minute.

(a) How much more water is needed to fill the tank to the brim?

(b) How long would it take to fill the tank to the brim?



Do not write in this space

Ans: (a) _____ [1]

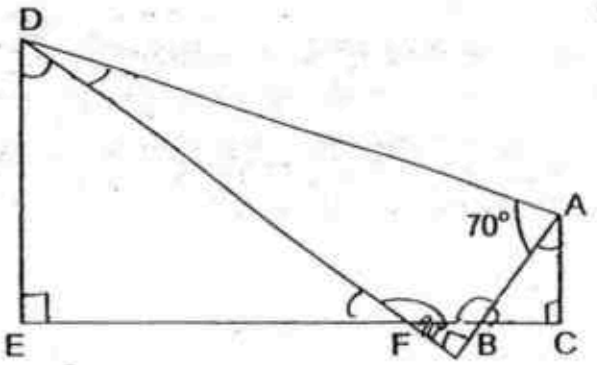
(b) _____ [3]

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10. In the figure below, a rectangular piece of paper is folded along AD as shown. Given that EFBC is a straight line, find

(a) $\angle EDF$.

(b) $\angle DFC$.



Do not write in this space

Ans: a) _____ [2]

b) _____ [1]

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11. Peter and John started running in opposite directions from a same spot. After 36 minutes, the distance between the 2 boys was 7920 m.

Do not write in this space

a) Given that Peter ran 3 times as fast as John, find Peter's speed. Give your answer in m/min.

b) How long would they have to run to be 12 760 m apart? Give your answer in minutes.



Ans: a) _____ [2]

b) _____ [2]

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12. The ratio of the number of marbles May, Teddy and Sam had was 3 : 5 : 2. During a game, May lost half of her marbles to Teddy. Teddy lost 20 marbles to Sam who then had 3 times the number of marbles May had at the end of the game.

Do not write in this space

a) What was the percentage increase in the number of marbles Sam had at the end of the game?

b) How many marbles did Teddy have at the end of the game?

Ans: a) _____ [2]

b) _____ [2]

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13. The table below shows the prices of admission tickets to a zoo.

Do not write in this space

Types of ticket	Price ($)
Child (3 – 12 years old)	$3y$
Adult	35
Senior Citizen (60 years & above)	$2y$

a) Mr and Mrs Chan took their 70-year old mother and 12-year old twins to the zoo. How much did they pay for the admission tickets in total? Give your answer in terms of y.

b) Mr Chan gave the cashier $150. If $y = 7$, how much change would he receive?

Ans: a) _____ [1]

b) _____ [2]

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14. The table below shows the method used to compute the sum of different sets of consecutive numbers.

Do not write in this space

Sum of numbers from 1 to 10	1 + 2 + 3 + ... + 8 + 9 + 10 = (10 x 11) ÷ 2 = 55
Sum of numbers from 1 to 20	1 + 2 + 3 + ... + 18 + 19 + 20 = (20 x 21) ÷ 2 = 210
Sum of numbers from 1 to 30	1 + 2 + 3 + ... + 28 + 29 + 30 = (30 x 31) ÷ 2 = 465
Sum of numbers from 1 to 40	? (a)

a) Find the sum of numbers from 1 to 40.

b) The multiples of 7 and the multiples of 9 were excluded from the set of numbers 1 to 40. Find the sum of the remaining numbers in this set.

Ans: a) _____ [1]

b) _____ [3]

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15. A bag contained some yellow, red and blue marbles. There were 221 more yellow marbles than blue marbles. There were $\frac{3}{4}$ as many red marbles as blue marbles. Given that the number of blue marbles was $\frac{1}{6}$ of the total number of marbles, how many marbles were there altogether?

Do not write in this space

Ans: _____ [5]

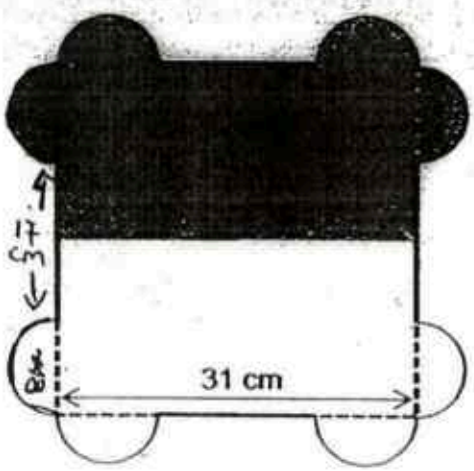
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16. The table mat below is made up of identical semi-circles and a 31-cm square.

Do not write in this space

a) Find the perimeter of the entire table mat.
b) Half of the table mat is shaded. Find the area of the shaded part.

(Take $\pi = \frac{22}{7}$)

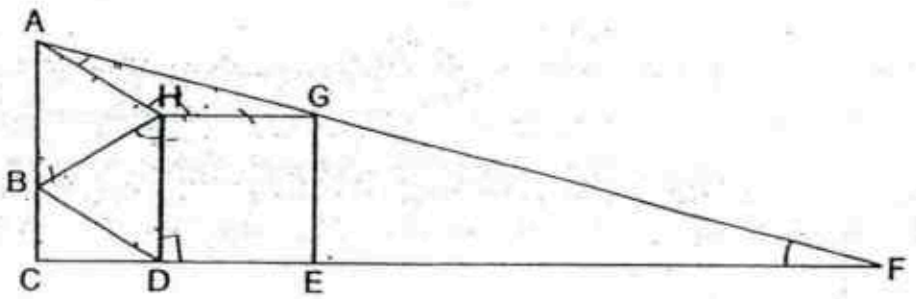


Ans: a) _____ [2]

b) _____ [3]

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17. In the diagram below, ACF is a right-angled triangle, DEGH is a square and ABDH is a rhombus. Given that AB = BH, find ∠ AFC.



Do not write in this space

Ans: _____ [4]

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18. At a fun-raising event, 60% of the people were male and the rest were female. 20% of the female left the event in the afternoon.
In the evening, after 33 male and 35 female left the event, 75% of the people at the event were male.

a) What percentage of the people left the event in the afternoon?

b) How many people were there at the start of the fun raising event?

Do not write in this space

Ans: a) _____ [2]

b) _____ [3]

END OF PAPER-

Setters: Mr Bernard Li Ms Chin Lian Mei Mrs Josephine Lai
Mr Yip Yew Fei Ms Yew Hew Mei

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HENRY PARK PRIMARY SCHOOL
2015 PRELIMINARY EXAMINATION
MATHEMATICS PRIMARY 6
PAPER 1

1) 3	2) 2	3) 2	4) 3	5) 2	6) 2	7) 3	8) 3	9) 2
10) 1	11) 4	12) 4	13) 4	14) 4	15) 3			

16) 3/4, 5/8, 2/5

17) 5/6÷4 = 5/6x1/4 = 5/24

18) 4h+5h = 9h

19) 180°-90°-26° = 64°
64°÷2 = 32°

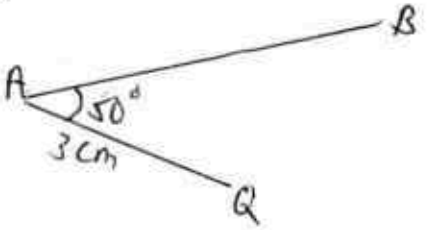
20) 6000÷900 = 6R600
Ans : 600g

21) 4 months

22) (6+12+10+12+20)÷5 = 12 points

23) 0

24)



25) 80% -- $56
100% -- 100/80x56 = $70

26) 20÷4 = 5 packets
5x8 = 40
40+1+1 = 42 sweets

27a) Playground
b) Park

28) 1/4x8 = 2u
3-2 = 1u
1u -- 120
3u -- 3x120 = 360 marbles

29) 3u -- 120 cubic m
4u -- 4/3x120 = 160 cubic m
height = 160÷20 = 8 m

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30) 2 : 4 = 1 : 2

PAPER 2

1) 5minx60 = 300 s
300s+30s = 330 s
330÷3 = 110 s
110-30 = 80s

2) 25/100x200 =50 litres
Ans : 11 00

3) Gabriel -- 3x3 = 9u
Helen -- 1u
Ans : 1/10

4) 10x60 = 600
600÷15 = 40
40x75 = 3000 ml

5) 5x30 = 150
150-4x10-5x15 = 35
35÷5 = 7 h

6) 2x9 = 18m
58÷2 = 29
29+1 = 30

7) 4/7 = 8/14
3/5 = 9/15
14+1 = 29
29u -- 145
9u -- 9/29x145 = 45 nails

8) 2x3.14x5 = 31.4 m
31.4+25+25 = 81.4 m
81.4x15 = 1221m = 1.221 km

9) 3/4x24x60x10 = 10800 cubic cm
1050-750 = 300 cubic cm
10800÷300 = 36 min

10a) Angle EDF = 90°-20°-20° = 50°
Angle DFE = 180°-90°-50° = 40°
b) Angle DFC = 180°-40 = 140°

11) 7920÷4 = 1980
1980x3 = 5940
a) 5940÷36 = 165 m/min
12760÷4 = 3190
3190x3 = 9570

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b) 9570÷165 = 58 min

12) M : T : S
3 : 5 : 2
= 6 : 10 : 4
in the end,
M -- 3u
S -- 3x3 = 9u
hence, 9u-4u = 5u
a) 5/4x100% = 125%
5u -- 20
b) 8u -- 8/5x20 = 32 marbles

13a) 2y+2x3y+2x35 = 2y+6y+70 = $(8y+70)
b) 8x7+70 = 56+70 = 126
150-126 = $24

14a) (40x41)÷2 = 820
b) 7+14+21+28+35 = 105
9+18+27+36 = 90
105+90 = 195
820-195 = 625

15) 6x4 = 24
24-11 =13
13u -- 221
24u -- 24/13x221 = 408

16a) circumference of 4 circles = 4x22/7x7 = 88 cm
perimeter of mat = 88+17x4 = 156 cm
b) area of 2 circles = 22/7x7/2x7/2x2 = 77 sq cm
area of rectangle = 31x31/2 = 480.5 sq cm
total area = 77+480.5 = 557.5 sq cm

17) since AB = BH
Triangle ABH is equilateral
Angle AHG = 360°-60°-60°-90° = 150°
Angle HAG = (180-150)÷2 = 15°
Angle AFC = 180°-90°-60°-15° = 15°

18a) 2/25x100% = 8%
b) 15u-33 = 3x(8u-35)
15u-33 = 24u-105
105-33 = 24u-15u
9u = 72
25u = 25/9x72 = 200 people at the fund raising

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Anglo-Chinese School (Junior)/
Anglo-Chinese School (Primary)

COMBINED PRELIMINARY EXAMINATION (2015)
PRIMARY 6

MATHEMATICS

PAPER 1
Booklet A

Friday **28 AUGUST 2015** **50 min**

INSTRUCTIONS TO PUPILS

1. Do not turn over this page until you are told to do so
2. Follow all instructions carefully.
3. Answer all questions.
4. Shade your answers in the Optical Answer Sheet (OAS) provided.
5. The use of calculators is **NOT** allowed

Name : _____

Class : 6.

Parent's Signature:_____

This question paper consists of 9 printed pages. (Inclusive of cover page)

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Questions **1** to **10** carry 1 mark each. Questions **11** to **15** carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet (OAS). (20 marks)

1. Express 10.5 m in cm.

   1) 1.05 cm
   2) 105 cm
   3) 1050 cm
   4) 10500 cm

2. There were 16 842 people visiting a museum last week.
   Express this number to the nearest thousand.

   1) 16 000
   2) 16 800
   3) 16 900
   4) 17 000

3. Arrange the following numbers from the largest to the smallest

   1) 6.2 , 6.102 , 6.12 , 6
   2) 6.12 , 6.102 , 6 , 6.2
   3) 6.2 , 6.12 , 6.102 , 6
   4) 6 , 6.102 , 6.2 , 6.12

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4. Mr Lim left his house at 10.45 a.m. and reached his destination at 2.00 p.m. How long did his journey take?

1) 3h 15 min
2) 3h 45 min
3) 4h 15 min
4) 4h 45 min

5. Find the value of $18 - 3m \div 2$ when $m = 4$.

1) 1
2) 12
3) 3
4) 30

6. Mrs Tan had $\frac{5}{8}$ kg of flour. She used $\frac{1}{3}$ of it to bake a cake. How much flour had she left?

1) $\frac{2}{3}$ kg
2) $\frac{5}{12}$ kg
3) $\frac{5}{24}$ kg
4) $\frac{7}{24}$ kg

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7. Gary used stickers of different shapes to make a pattern. The first 12 stickers are shown below. What was the shape of the 47th sticker?



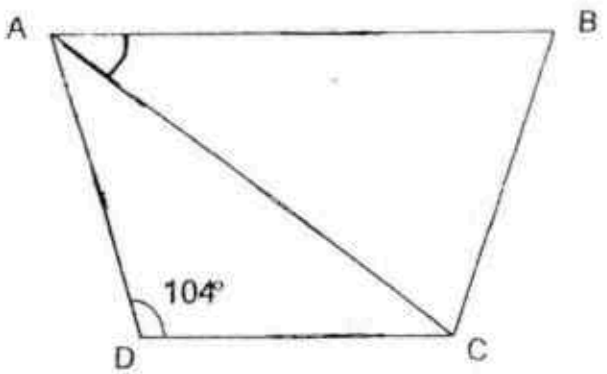
1) 

2) 

3) 

4) 

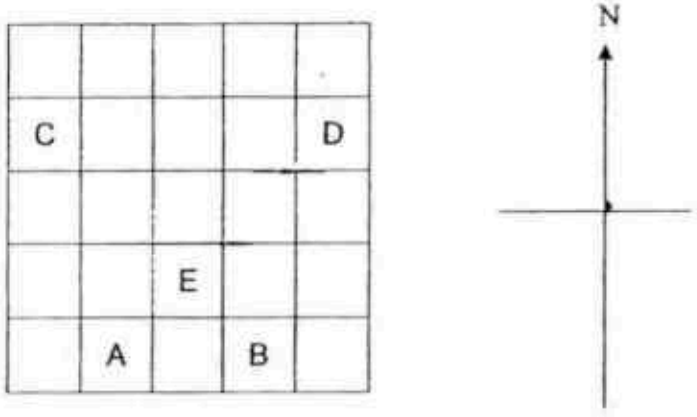
8. ABCD is a trapezium. $\angle ADC = 104°$, AB = AC and CD = AD.
Find $\angle BAC$.



1) 38°
2) 71°
3) 76°
4) 104°

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9. Study the grid below and answer the following question using the 8-point compass.

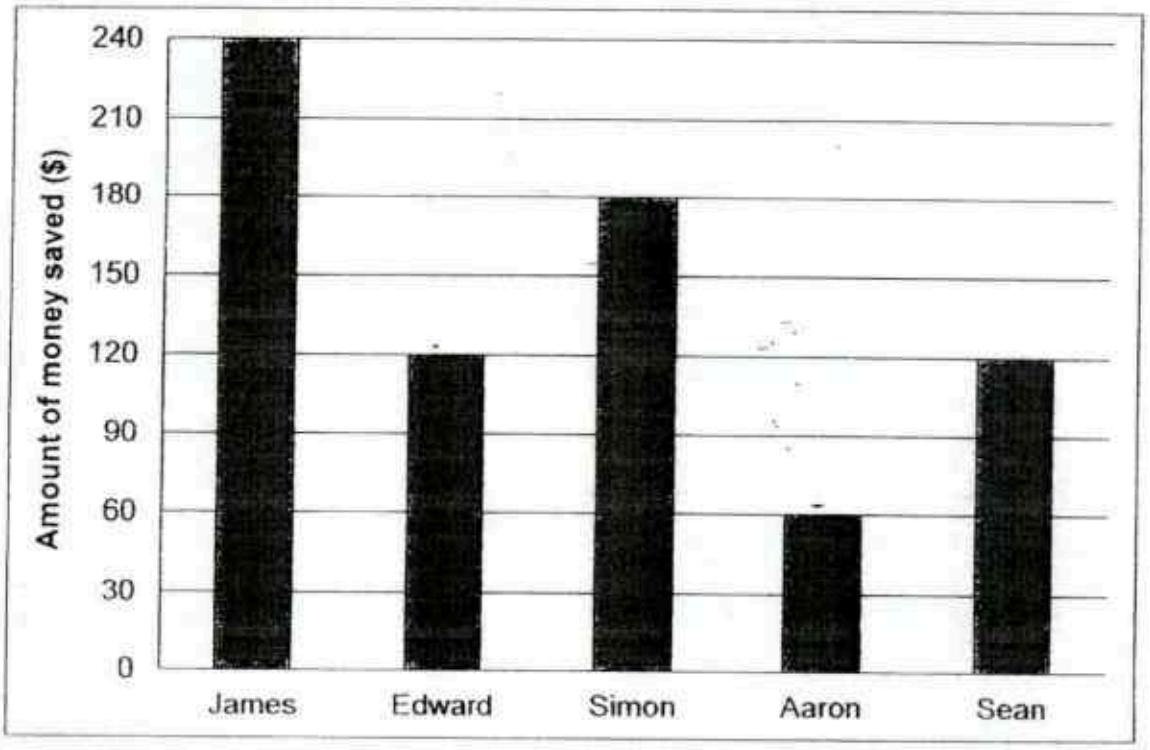


Which letter is exactly north-east of the letter 'E'?

1) A
2) B
3) C
4) D

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10. The graph below shows the amount of money saved by 5 boys.



Which boy saved 50% of what Edward saved?

1) James
2) Simon
3) Aaron
4) Sean

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11. Kim has an equal number of 20 cent coins and 50 cent coins. Their total value is $8.40. How many coins does he have?

1) 12
2) 18
3) 20
4) 24

12. The ratio of the length to the breadth of a rectangle is 4 : 3. The perimeter of the rectangle is 28 cm. Find its area.

1) 48 cm^2
2) 56 cm^2
3) 112 cm^2
4) 192 cm^2

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13. The table below shows the number of pupils who took part in different games for a school event. Each pupil took part in only one game. Some information on the number of pupils who took part in netball is missing.

Game	Number of pupils
Soccer	88
Netball	?
Table-Tennis	112
Badminton	32

Given that 30% of the total number of pupils took part in soccer and badminton, how many pupils took part in netball?

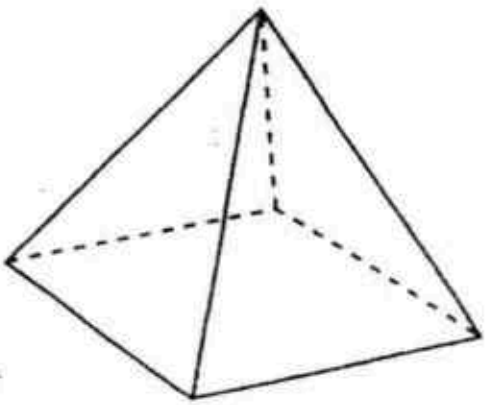
1) 120
2) 168
3) 280
4) 400

14. Alice bought an equal number of apples and pears. The apples were sold at 3 for $2 and the pears were sold at 4 for $4.50. She paid $5.50 more for the pears than the apples. How much did she pay altogether?

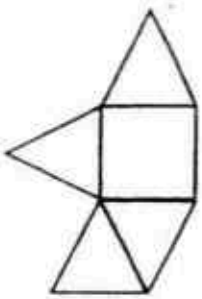
1) $21.50
2) $24
3) $37.50
4) $43

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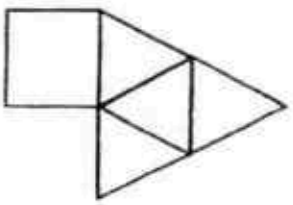
15. Which of the following is the net of the square-based pyramid shown in the figure below?



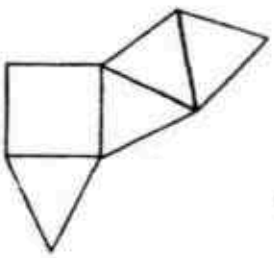
1)



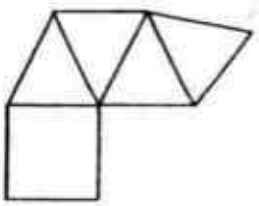
2)



3)



4)



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Anglo-Chinese School (Junior)/
Anglo-Chinese School (Primary)

COMBINED PRELIMINARY EXAMINATION (2015)
PRIMARY 6

MATHEMATICS

PAPER 1
Booklet B

Friday **28 AUGUST 2015** **50 min**

INSTRUCTIONS TO PUPILS
1. Do not turn over this page until you are told to do so
2. Follow all instructions carefully.
3. Answer all questions.
4. Write your answers in this booklet.
5. The use of calculators is **NOT** allowed

Name : _____

Class : 6.

Parent's Signature:_____

This question paper consists of 9 printed pages. (Inclusive of cover page)

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Questions **16** to **25** carry 1 mark each. Write your answers in the spaces provided. Give your answers to the units stated and to its simplest form whenever necessary. (10 marks)

16. The total mass of 21 identical boxes is 1.5 kg. What is the total mass of 7 such boxes in grams?

Answer: _____ g

17. Use all the digits shown below to form the smallest 5-digit odd number (Do not begin with the digit '0'.)

6	1	5	0	2

Answer: _____

18. What is the greatest number of 5-cm cubes that can be placed inside a rectangular box measuring 30 cm by 26 cm by 15 cm?

Answer: _____

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19. Find the difference in value between 4 tenths and 21 thousandths
Express your answer as a decimal.

Answer: _____

20. Sam is 15 years old now. His cousin is x years older than him. What would be their combined age two years later?

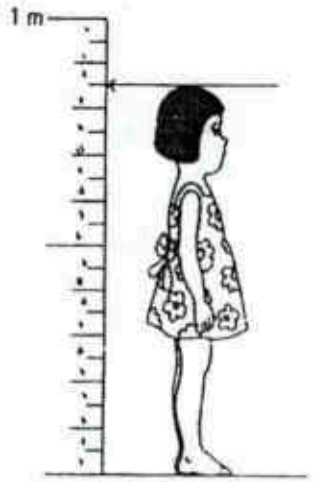
Answer: _____

21. Find the value of $2 - \frac{1}{2} - \frac{2}{7}$.

Answer: _____

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22. Look at the diagram below. What is the girl's height in cm?



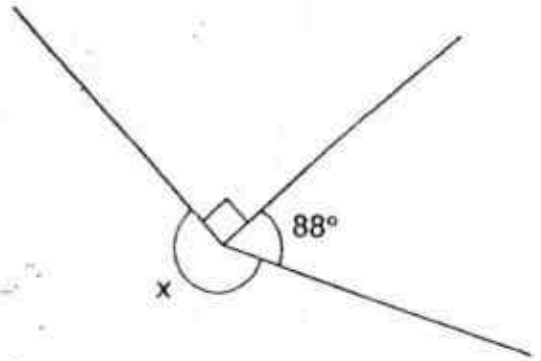
Answer: _____ cm

23. Melissa used 20 m of strings to tie some boxes. She used 40 cm of strings for each box. How many boxes were there?

Answer: _____

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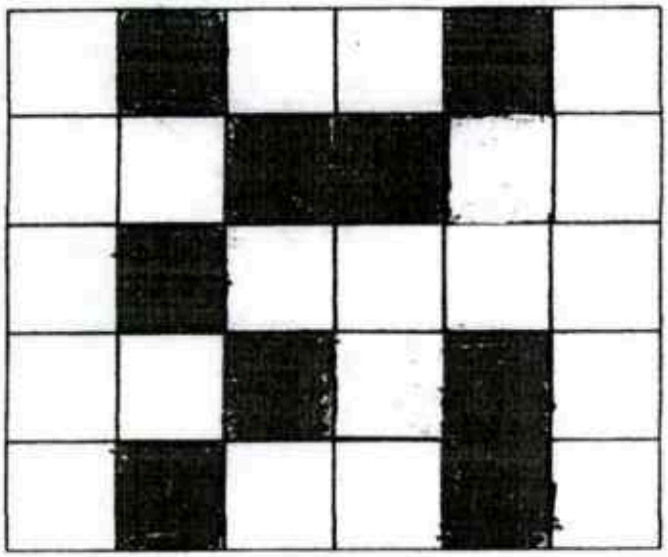
24. In the figure below, find $\angle x$.



Answer: _____

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25. The figure below is made up of identical squares. Shade two more squares so that the figure has a line of symmetry.



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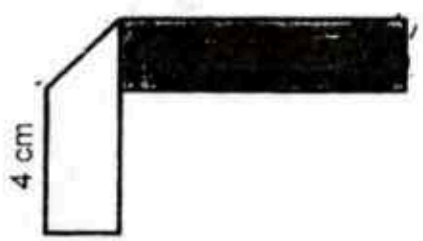
Questions **26** to **30** carry 2 marks each. Show your working clearly and and write your answers in the spaces provided. For questions which requires units, give your answers in the units stated. (10 marks)

---

26. 90 stickers are given to 3 boys and 4 girls. Each boy gets w stickers and the remaining stickers are given equally to the 4 girls. How many stickers does each girl get? Express your answer in terms of w.

Answer: _____

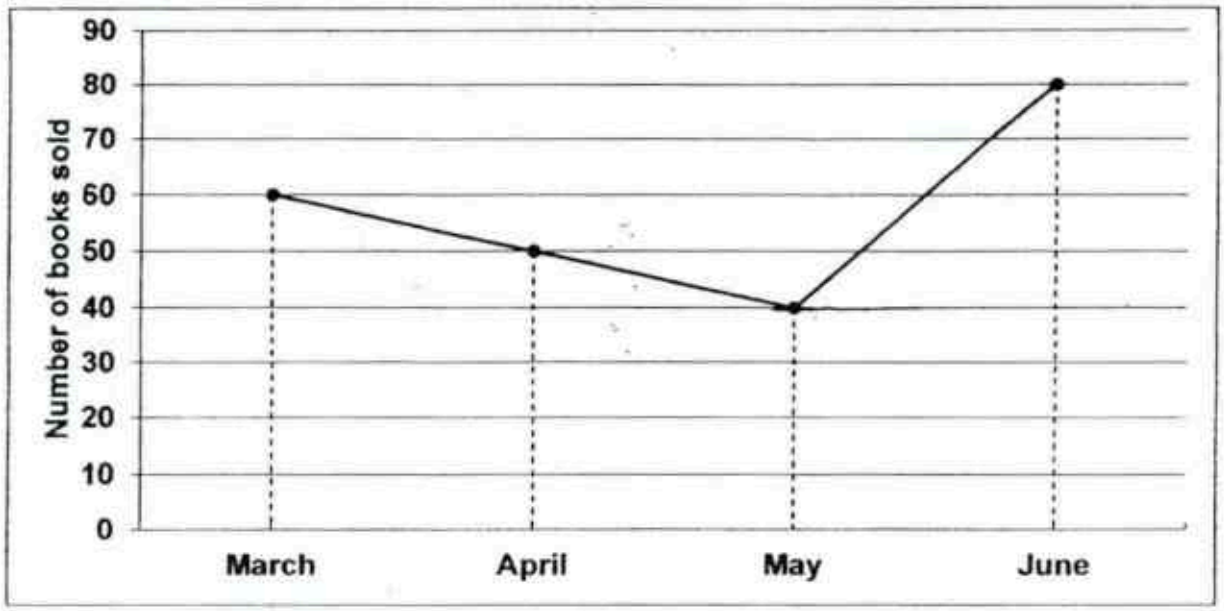
27. A rectangular piece of paper measuring 14 cm by 2 cm is folded into an L shape as shown below. What is the area of the shaded part?



Answer: _____ cm^2

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28. The line graph below shows the number of books a bookstore sold from March to June.



What wast the percentage increase in the number of books sold from May to June?

Answer: _____%

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29. A sum of money was shared between Aaron and Jason in the ratio 2 : 3. Jason gave $\frac{1}{4}$ of his share to Aaron. What is the new ratio of Aaron's share to Jason's share of the money?

Answer : _____

30. Mrs Lim has some stickers. If she gives each of her children 6 stickers, she will have 5 left. If she gives each of them 4 stickers instead, she will have 13 left. How many stickers does Mrs Lim have?

Answer: _____

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Anglo-Chinese School (Junior)/
Anglo-Chinese School (Primary)

COMBINED PRELIMINARY EXAMINATION (2015)
PRIMARY 6

MATHEMATICS

PAPER 2

Friday **28 AUGUST 2015** **1hr 40 min**

INSTRUCTIONS TO PUPILS

1. Do not turn over this page until you are told to do so
2. Follow all instructions carefully.
3. Answer all questions.
4. Show all your workings as marks are awarded for correct working.
5. Write your answers in this booklet.
6. The use of an approved calculator is expected, where appropriate.

Name : _____

Class : 6.

Parent's Signature: _____

Booklet / Paper	Possible Marks	Marks Obtained
Booklet A	20	
Booklet B	20	
Paper 2	60	
Total	100	

This question paper consists of 17 printed pages. (Inclusive of cover page)

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Questions **1** to **5** carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers to the units stated. (10 marks)

1) Linda scored an average of 88 marks for 4 tests during her common test. The maximum score for each test was 100 marks. What was the lowest possible mark she could have scored for any of the 4 tests?

Answer: _____

2. A jar filled with 10 identical nails weighed 500 g. After 4 nails were removed, the jar and the remaining nails weighed 420 g. What was the mass of the empty jar? Give your answer in grams.

Answer: _____ g

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3. The table below shows the charges for bicycle rental.

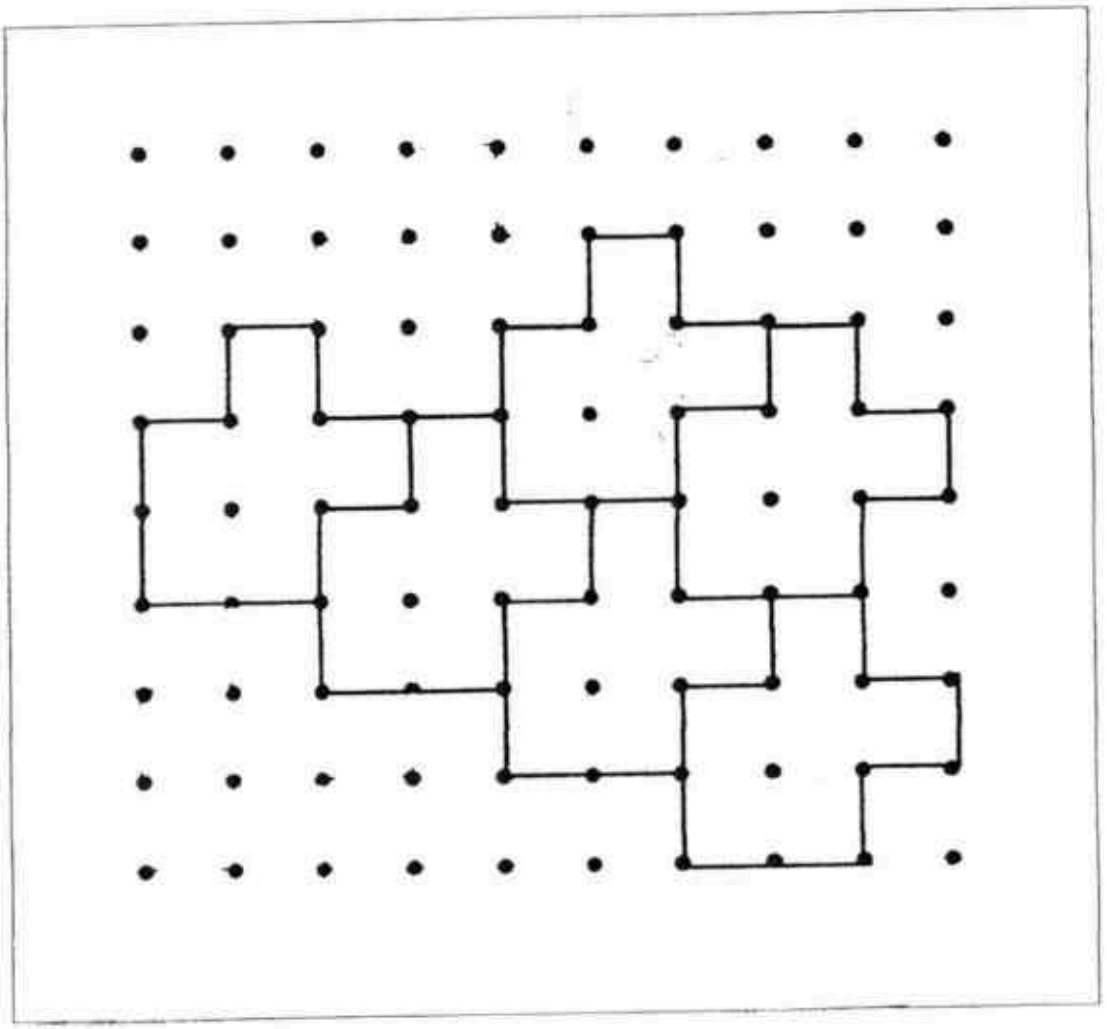
Rental Rate	One bicycle
1st hour per bicycle	$7
Every subsequent hour or part thereof per bicycle	$5

Joel rented two bicycles for 3 hours and 20 minutes. How much did he pay?

Answer: $_____

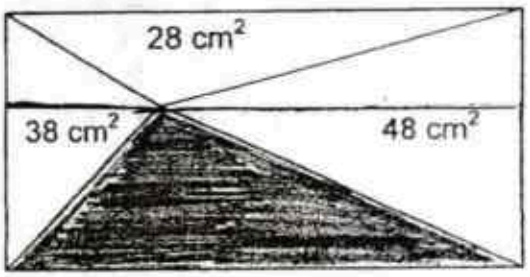
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4. The pattern in the box shows part of a tessellation. Extend the tessellation by drawing two more unit shapes in the space provided in the box.



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5. The rectangle below is divided into 4 triangles. The areas of three of the triangles are 28 cm^2, 38 cm^2 and 48 cm^2 as shown. What is the area of the shaded triangle?



Answer: _____ cm^2

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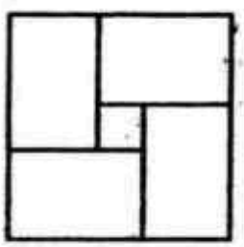
For questions **6** to **18**, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (50 marks)

---

6. In a box of pencils, 10% of them were red, 50% were blue and the rest were yellow. When 126 blue pencils were sold, the number of yellow pencils was equal to the total number of red and blue pencils left in the box. Find the total number of pencils in the box at first.

Answer: _____ [3]

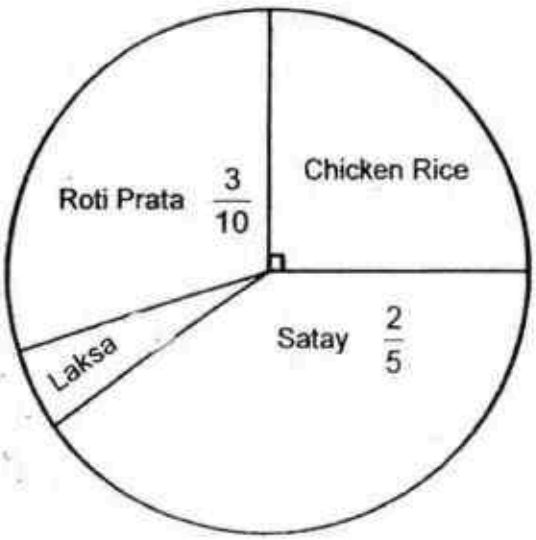
7. The figure below consists of 4 identical rectangles each of area 54 cm^2 and a small square of area 9 cm^2. What is the length of each rectangle?



Answer: _____ [3]

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8. A survey was conducted to find out the favourite local food of a group of tourists. The pie chart below shows the results of the survey.



(a) What percentage of the tourists chose Laksa as their favourite local food?

(b) The number of tourists whose favourite local food, Satay, is 352 more than the number of tourists whose favourite local food is Roti Prata. What is the total number of tourists who took part in this survey?

Answer: (a) _____ [1]

(b) _____ [2]

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9. Jessie had a bag of flour. She used 770 g of the flour to bake some curry puffs and $\frac{2}{5}$ of the remaining flour to bake some tarts. She had $\frac{1}{4}$ of the original amount of flour left. How much flour did she have at first?

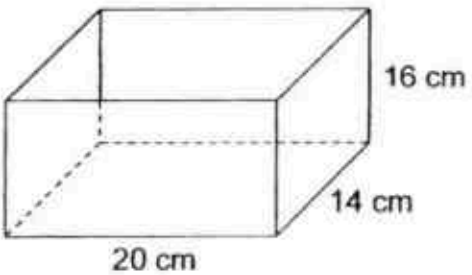
Answer: _____ [3]

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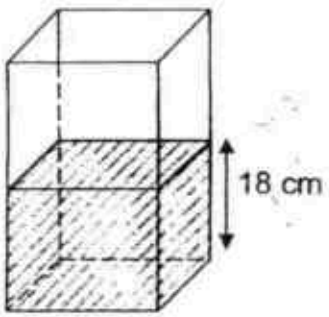
10. Tank A which measured 20 cm by 14 cm by 16 cm was empty. Tank B with a base area of 200 cm^2 contained water to a height of 18 cm. Some water from Tank B was transferred to Tank A so that the water level in both tanks was the same.

a) What was the volume of water in Tank B at first?

b) What was the new height of the water level in Tank B?



Tank A



Tank B

Answer: (a) _____ [1]

(b) _____ 3]

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11. At a concert, $\frac{5}{7}$ of the audience were female. $\frac{1}{2}$ of the male audience were boys and there were three times as many women as girls. There were 23 more girls than boys at the concert.

(a) What fraction of the audience were girls?

(b) How many people were there at the concert altogether?

Answer: (a) _____ [1]

(b) _____ [3]

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12. A delivery company delivered 980 wine glasses for Mr Wee. It charged $2 for every wine glass safely delivered, but it had to pay Mr Wee $3 for every wine glass broken during the delivery. In the end, Mr Wee only needed to pay $1915 for the delivery. How many wine glasses were broken during the delivery?

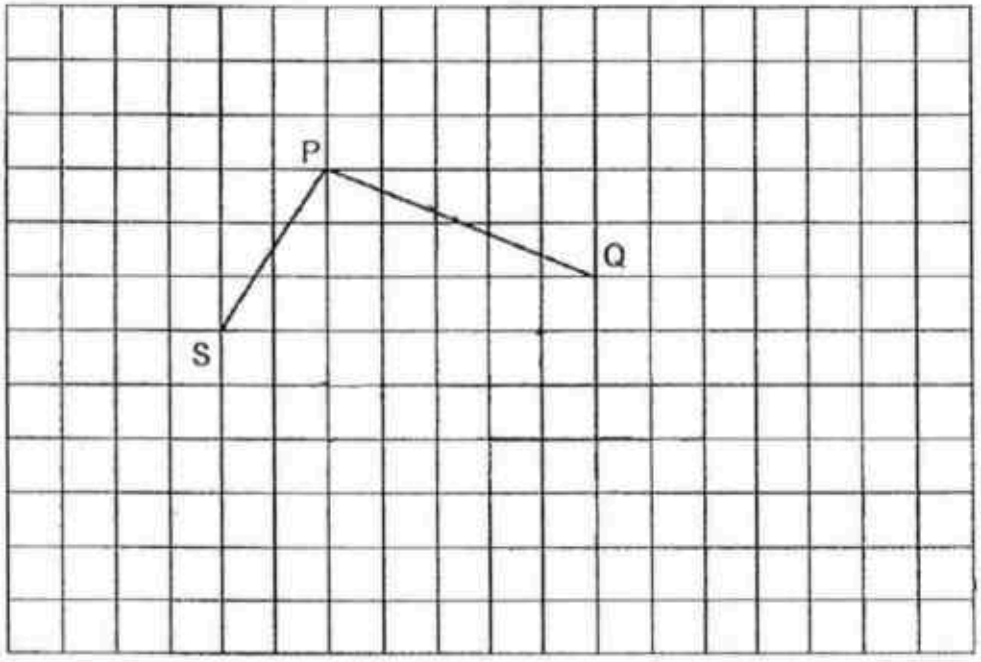
Answer: _____ [4]

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13. In the square grid below, 2 sides of a parallelogram PQRS have been drawn.

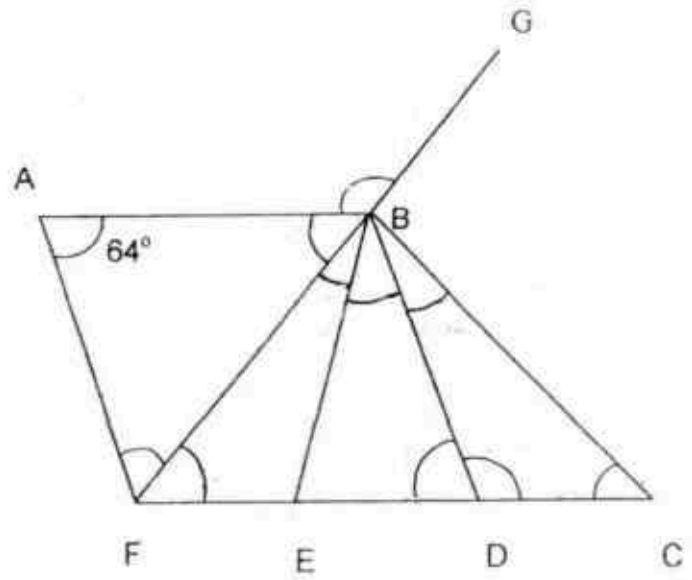
(a) Complete the drawing of the parallelogram PQRS. **[2m]**

(b) QR also forms one side of an isosceles triangle QRT and QR = QT. Complete the drawing of the triangle QRT within the grid. **[1m]**



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14. In the figure below, ABDF is a rhombus. FBG and FDC are straight lines. $\angle FAB = 64°$ and $\angle FBE = \angle EBD = \angle DBC$.



(a) Find $\angle ABG$.

(b) Find $\angle BCD$.

Answer: (a) _____ [2]

(b) _____ [2]

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15. Lindah and Sharifah started driving from Town A to Town B at the same time. When Sharifah reached Town B in 2h 45 min, Lindah had only completed $\frac{7}{8}$ of the journey. Both did not change their speeds throughout. Lindah was driving at 8km/h slower than Sharifah.

(a) Find Lindah's speed in km/h.

(b) Find the distance between Town A and Town B.

Answer: (a) _____ [2]

(b) _____

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16. Miss Ting spent $\frac{5}{9}$ of her money on 3 files and 8 notebooks, and $\frac{3}{4}$ of the remaining money on 7 pens.

Each file costs $\frac{2}{3}$ as much as a notebook.

Each pen costs 40 cents more than a file.

(a) What fraction of her money was spent on 7 pens?

(b) What is the cost of a notebook?

Answer: (a)_____ [1]

(b) _____ [4]

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17. Andrew had some \$2 and \$5 notes. The ratio of the number of \$2 notes to the number of \$5 notes was 4 : 7. He gave $\frac{1}{2}$ of the \$2 notes and $\frac{1}{2}$ of the \$5 notes to his mother. He lost twelve \$2 notes and twelve \$5 notes. The ratio of the number of \$2 notes left to the number of \$5 notes left was 1 : 4. How many \$2 notes did he have at first?

Answer. _____ [5]

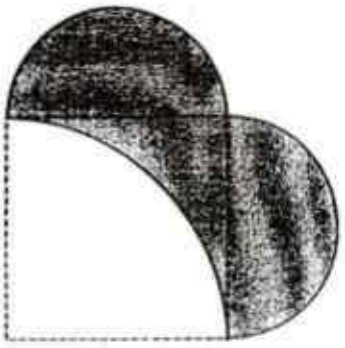
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18. The figure below consists of 2 semicircular arcs and a quarter arc.

a) Find the perimeter of the shaded part.

b) Find the area of the shaded part.

(Take $\pi = \frac{22}{7}$)



7 cm

Answer: (a) _____ [2]

(b) _____ [3]

End of Paper 2

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EXAM PAPER 2015
LEVEL : PRIMARY 6
SCHOOL : ANGLO-CHINESE SCHOOL (JUNIOR)
SUBJECT : MATHEMATICS
TERM : PRELIMINARY EXAMINATIONS

PAPER ONE

Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q9	Q 10
3	**4**	**3**	**1**	**2**	**2**	**3**	**1**	**4**	**3**
Q 11	Q 12	Q 13	Q 14	Q 15					
4	**1**	**2**	**1**	**3**					

Q16. 500g → 1.5kg =1500g, 21÷ 7 = 3, 1500÷ 3 = 500g

Q17. 10265 Q18. 90 cubes → 30÷ 5 = 6, 26÷ 5=5R1, 15÷ 5 = 3, 6 x 5 x 3 =90

Q19. 0.379 → 0.400 – 0.021 = 0.379

Q20. (34 + χ) years old → 15 +2=17, 15 + χ + 2 = 17 + χ, 17 +17 + χ = 34 + χ

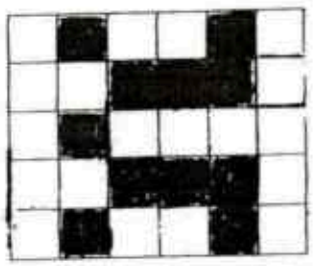
Q21. $1\frac{3}{14}$ → $\frac{1}{2}$ → $\frac{7}{14}$, $\frac{2}{7}$ → $\frac{4}{14}$, $\frac{28}{14}$ - $\frac{7}{14}$ - $\frac{4}{14}$ = $\frac{17}{4}$ = $1\frac{3}{14}$

Q22.85cm → 1m = 100cm, 100÷ 20 = 5, 17 x 5 =85

Q23. 50 boxes → 20m = 2000cm, 2000÷40 =50

Q24. 182° → 90 + 88=178, 360 – 178 = 182

Q25. **SEE PICTURE** Q26. $(\frac{90-3w}{4})$ *stickers* → $3 \times w = 3w$, $(90 - 3w) \div 4 = \frac{90-3w}{4}$



Q27. 16cm^2 → 4 - 2 = 6, 14 – 6 = 8, 8 x 2 = 16.

Q28.100% → 80 – 40 = 40, $\frac{40}{40}$ x 100% = 100%

Q29. 11:9 →

BEFORE	AFTER
A :J , 2 : 3, 8 : 12	A : J , 11 : 9

Q30. 29 stickers → 4 x 4 = 16, 29 -16 = 13

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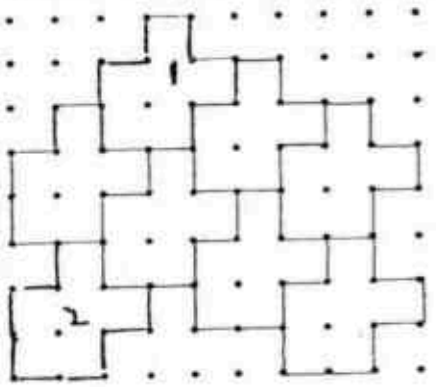
Q1. 52 marks → 88 x 4 = 352, 352=100+100+100+52

Q2. 300g→ 500 – 420=80, 80÷ 4 = 20, 20 x 10 = 200, 500 – 200 = 300

Q3. 1st hr →$7 x 2 = $14, 2h 20min→ $5 x 3 x 2 = $30, total $14 + 30=$44

Q4. **SEE PICTURE**

Q5. 58cm^2 →48 + 38 = 86, 86 – 28 = 58



Q6. 630 pencils→100 -10-50=40, 40-10=30, 50-30=20, 126÷ 20 =6.3, 6.3 x 100 =630

Q7. 9cm→ 54 x 4 = 216, 216 +9 = $\sqrt{225}$ = 15, $\sqrt{9}$ = 3, 15 +3 = 18, 18 ÷ 2 = 9

Q8a. 5%→ $\frac{2}{5} = \frac{40}{100} = 40\%$, $\frac{3}{10} = \frac{30}{100} = 30\%$, $100 - 30 - 25 - 40 = 5$

Q8b. 3520 tourists → 40 – 30=10, 100 ÷10, 352 x 10 = 3520

Q9. 1320g of flour→ $\frac{1}{4} = \frac{3}{2}$ $\frac{3}{12} + \frac{3}{12} = \frac{5}{12}$, $\frac{12}{12} - \frac{5}{12} = \frac{7}{12}$, 770 ÷ 7 = 110, 110 x 12 = 1320

Q10a. 3600cm^3→200 x 18 = 3600.

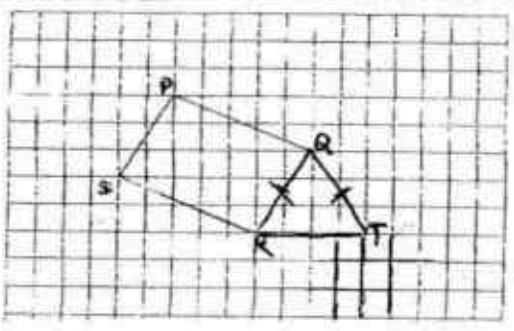
Q10b. 7.5cm→ 20 x 14 =280, 280 +200=480, 3600÷480=7.5.

Q11a. $\frac{5}{28}$ → 3 + 1 = 4, $\frac{5}{7} \div 4 = \frac{5}{28}$

Q11b. 644 people → $\frac{7}{7} - \frac{5}{7} = \frac{2}{7}$, $\frac{2}{7} \times \frac{1}{2} = \frac{1}{7}$, $\frac{1}{7} = \frac{4}{28}$, $\frac{5}{28} - \frac{4}{28} = \frac{1}{28}$, 23 x 28 = 644

Q12 9 wineglasses → 971 x 2 = 1942, 9 x 3 = 27, 1942 – 27 = 1915

Q13. **SEE PICTURE**



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EXAM PAPER 2015
LEVEL : PRIMARY 6
SCHOOL : ANGLO-CHINESE SCHOOL (JUNIOR)
SUBJECT : MATHEMATICS
TERM : PRELIMINARY EXAMINATIONS

Q14a. 122° → 180 – 64=116, 116 ÷2=58, 180-58=122, $\angle ABG$ *is* 122°

Q14b. 35° →58 ÷ 2 =29, 180 -29 – 116 = 35, $\angle BCD$ *is* 35°

Q15a. 56km/h→ 2h45min =165min, $\frac{165}{60} = \frac{11}{4}$, $8 \times \frac{11}{4} = 22$, 22 x 7=154, 154÷ 11 =14,14 x 4 =56.

Q15b. 176km →$56 \times \frac{11}{4} = 154$, 154 ÷ 7 = 22, 22 x 8 = 176.

Q16a. $\frac{1}{3}$ of her money $\frac{9}{9} - \frac{5}{9} = \frac{4}{9}$ $\frac{4}{9} \times \frac{3}{4} = \frac{1}{3}$

Q16b. $2.10 → 2 x 3 = 6, 3 x 8 = 24, 24 + 6 = 30, $\frac{5}{9} = \frac{30}{54}$, $\frac{1}{3} = \frac{18}{54}$, 7 x 0.40=2.80, 2 x 7 = 14, 18 -14 = 4, 2.80 ÷ 4 = 0.70, 0.70 x 3 = 2.10

Q17. 32 two dollar notes → (1p + 12) x 2 = 4u, (4p + 12) x 2 = 7u, 2p + 24 =4u, 8p+24 = 7u, 8p+96=16u, 16u – 7u = 9u, 96 – 24 = 72, 72÷ 9 = 8, 8 x 4 = 32

Q18a. 33cm→ $7 \times \frac{22}{7} = 22$, 7 x 2 = 14, $\frac{1}{4} \times 14 \times \frac{22}{7} = 11$, 22 + 11 = 33.

Q18b. 49cm^2 → 7÷2 = 3.5, $3.5 \times 3.5 \times \frac{22}{7} = 38.5$, 7 x 7 = 49, $\frac{1}{4} \times 7 \times 7 \times \frac{22}{7} = 38.5$, 49 – 38.5 = 10.5, 38.5 + 10.5 = 49.

THE END

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ANGLO-CHINESE SCHOOL (JUNIOR)/ANGLO-CHINESE SCHOOL (PRIMARY)
PRELIMINARY EXAMINATION 2015
MATHEMATICS PRIMARY 6
PAPER 1

1) 3 2) 4 3) 3 4) 1 5) 2 6) 2 7) 3 8) 1 9) 4
10) 3 11) 4 12) 1 13) 2 14) 1 15) 3

16) 21 boxes -- 1500g
7 boxes -- 7/21x1500 = 500g

17) 10265

18) 30÷5 = 6
26÷5 = 5 R 1
15÷5 = 3
6x5x3 = 90 cubes

19) 0.379

20) 15+x+15+2+2 = (34+x) years old

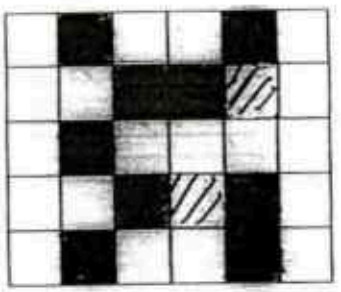
21) 1/3/14

22) 85 cm

23) 2000÷40 = 50 boxes

24) Angle x = 360°-90°-88° = 182°

25)



26) (90-3w)/4 stickers

27) 14-2-4 = 8
8x2 = 16 sq cm

28) (80-40)/40X100% = 100%

29) 11 : 9

30) 6-4 = 2
13-5 = 8
8÷2 = 4
4X6 = 24
24+5 = 29

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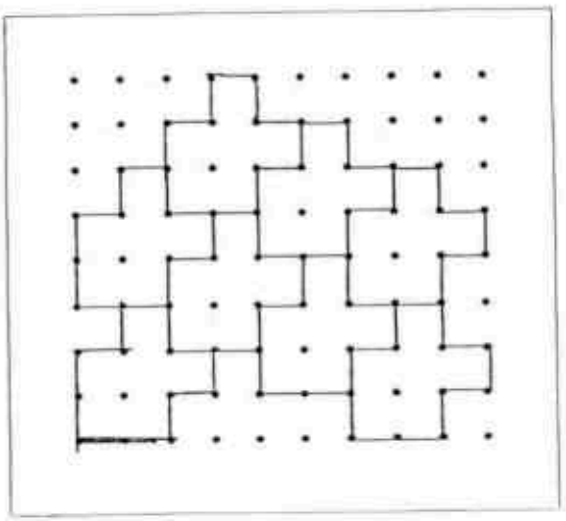
PAPER 2

1) 88x4 = 352
3x100 = 300
352-300 = 52

2) 500-420 = 80
4 nails -- 80 g
10 nails -- 10/4x80 = 200 g
500-200 = 300 g

3) 7+5+5+5 = 22
22x2 = $44

4)



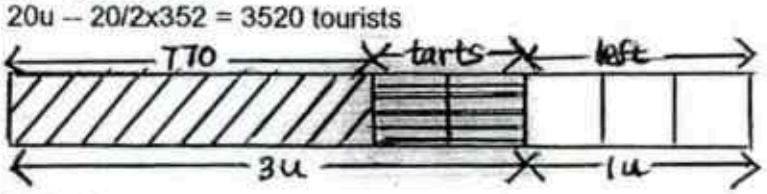
5) 38+48-28 = 58 sq cm

6) 100%-10%-50% = 40%
40%-10% = 30%
50%-30% = 20%
20% -- 126 pencils
100% -- 100/20x126 = 630 pencils

7) 54x4+9 = 216+9 =225
√225 = 15 cm
√9 = 3 cm
1 length + 1 breadth = 15 cm
2b = 15-3 = 12 cm
1b = 12÷2 = 6 cm
1 length = 15-6 = 9 cm

8) 1-5/20-8/20-6/20 = 1/20
a) 1/20x100% = 5%
b) 2u -- 352 tourists
20u -- 20/2x352 = 3520 tourists

9)



3x3 = 9
9-2 = 7
7u - 770 g
12u - 12/7x770 = 1320 g at first

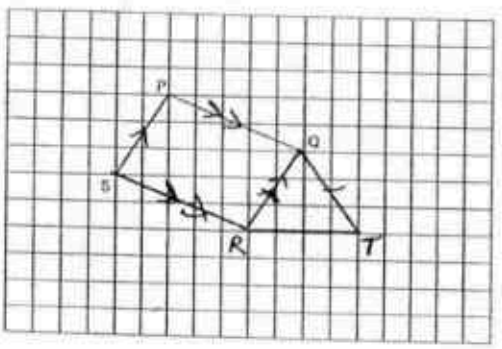
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10a) 200x18 = 3600 cubic cm
b) 20x14 = 280 sq cm
280+200 = 480 sq cm
3600÷480 = 7.5 cm

11) W : G total
3 : 1 4u
15 : 5 20u
F : M
5 : 2 7u
20 : 8 28u
a) ans: 5/28
b) 1u -- 23
28u -- 28x23 = 644 people at the concert

12) 980x2 = 1960
1960-1915 = 45
2+3 = 5
45÷5 = 9 wine glasses were broken

13)



14) Angle AFB = Angle ABF = (180°-64°)÷2 = 58°
a) Angle ABG = 180°-58° = 122°
b) Angle AFC = Angle ABD = 180°-64° = 116°
Angle FBD = Angle BFD = 180°-58° = 58°
Angle FBC = 58°÷2x3 = 87°
Angle BCD = 180°-58°-87° = 35°

15) 1h -- 8 km
2/3/4h -- 2/3/4x8 = 22 km
a) (22x7)÷2/3/4 = 56 km/h (Linda's speed)
b) 22x8 = 176 km

16a) 3/4x4/9 = 1/3
b) F : N : P
no. 3 : 8 : 7
cost 2 : 3 : 2+40¢

---

total 6 : 24 : 14+280¢
5 parts -- 6u+24u = 30u
3 parts -- 3/5x30= 18u
18u = 14u+280
4u = 280 ¢
3u = 3/4x280¢ = 210¢ = $2.10

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17) $2 : $5 difference
4 : 7 3u
1 : 4 3u
3u – 12
4u – 4/3x12 = 16
16x2 = 32 $2 notes at first

18) circumference of circle = 2x22/7x7/2 = 22 cm
circumference of quadrant = 1/4x2x22/7x7 = 11 cm
a) perimeter of shaded area = 22+11 = 33 cm
b) area of circle = 22/7x7/2x7/2 = 38.5 sq cm
shaded part of square = 7x7-1/4x22/7x7x7 = 10.5 sq cm
area of the shaded part = 38.5+10.5 = 49 sq cm

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Name : _____

Class : Primary 6 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

Primary 6

2015 Preliminary Examination

Mathematics

Paper 1

Booklet A

25 August 2015

Total Time for Booklets A and B: 50 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
The use of calculators is **NOT** allowed.

This booklet consists of *8* printed pages including the cover page.

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Questions **1** to **10** carry 1 mark each. Questions **11** to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3, or 4) on the Optical Answer Sheet.

(20 marks)

---

1. Which of the following, when rounded off to the nearest thousand is 853 000?

   1) 852 455

   2) 852 555

   3) 853 555

   4) 853 655

2. Express $1\frac{3}{100}$ as a decimal.

   1) 0.013

   2) 0.13

   3) 1.03

   4) 1.003

3. The ratio of Anthony's stickers to Ben's stickers is 4 : 5. The ratio of Anthony's stickers to Charles' stickers is 8 : 7. Find the ratio of Charles' stickers to Ben's stickers to Anthony's stickers.

   1) 7 : 5 : 4

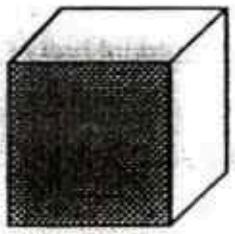
   2) 7 : 5 : 8

   3) 7 : 10 : 4

   4) 7 : 10 : 8

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4. The volume of the cube shown below is 216 cm^3. Find the area of the shaded face of the cube.



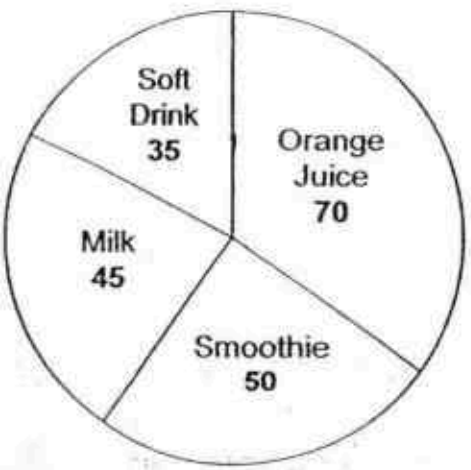
1) 6 cm^2

2) 24 cm^2

3) 36 cm^2

4) 64 cm^2

5. A group of 200 children was asked to choose their favourite drink. The pie chart below shows the number of children who chose each of the different types of drinks. Which drink was chosen by 35% of the children?



1) Milk

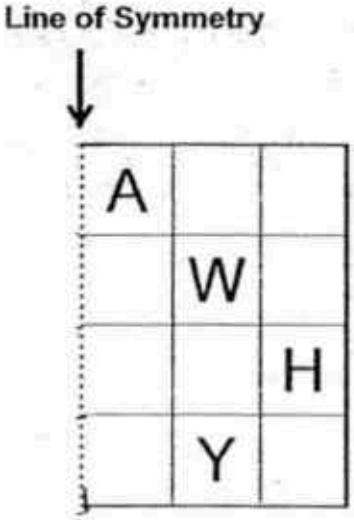
2) Orange Juice

3) Smoothie

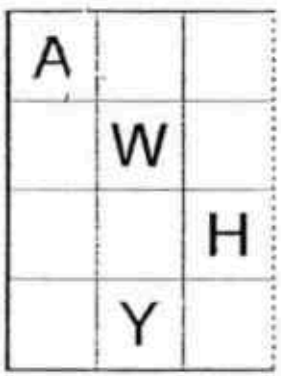
4) Soft Drink

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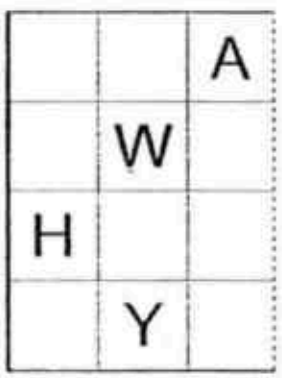
6. Which of the following figures completes the other symmetrical half of the figure below?



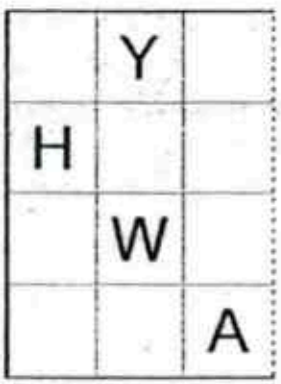
1)



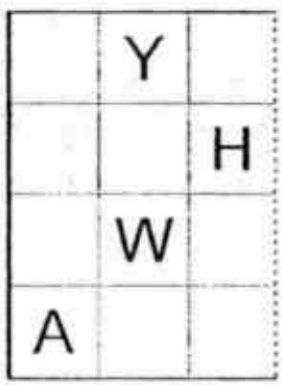
2)



3)



4)



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7. Sally, Tania and Uma finished eating one pizza together. Tania ate $\frac{1}{4}$ of the pizza. Sally ate a smaller portion of the pizza than Uma. Which of the following shows the possible fractions of the pizza Sally and Uma had eaten?

	Sally	Uma
1)	$\frac{1}{2}$	$\frac{1}{4}$
2)	$\frac{1}{8}$	$\frac{3}{8}$
3)	$\frac{1}{4}$	$\frac{1}{2}$
4)	$\frac{3}{8}$	$\frac{1}{8}$

8. There are 36 members in a judo class. $\frac{7}{8}$ of the men is equal to $\frac{7}{10}$ of the women. How many more women than men are there in the judo class?

1) 4

2) 6

3) 16

4) 20

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9. The mass of Parcel A is 9 kg. The total mass of Parcel B and Parcel C is 24 kg. What is the average mass of the 3 parcels?

1) 11 kg

2) 19 kg

3) 33 kg

4) 57 kg

10. Last year, Mr Lim's monthly salary was $1000. This year, his monthly salary increases by 12%. What is Mr Lim's monthly salary this year?

1) $120

2) $880

3) $1120

4) $1440

11. A wheel of radius 8 cm has turned $2\frac{1}{2}$ revolutions. What is the distance the wheel has travelled in terms of π?

1) 20π cm

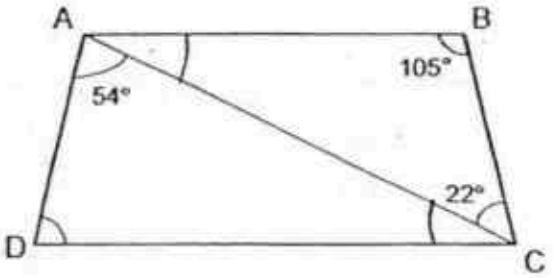
2) 40π cm

3) 64π cm

4) 160π cm

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12. The figure below is not drawn to scale. ABCD is a trapezium. Find ∠ADC.



1) 53°

2) 73°

3) 75°

4) 105°

13. Meredith used 108.06 g of flour to make 6 similar cupcakes. How much flour would she need to make 9 such cupcakes?

1) 18.01 g

2) 54.03 g

3) 162.09 g

4) 972.54 g

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14. Lionel is x years old. Jim is 3 times as old as Lionel. Kenny is $\frac{1}{2}$ as old as Jim. Express Kenny's age in terms of x in years.

1) $5x$

2) $6x$

3) $\frac{2x}{3}$

4) $\frac{3x}{2}$

15. Amanda wanted to give \$5 to Bernard so that they would both have the same amount of money. However, Bernard gave \$5 to Amanda instead. Amanda ended up with 6 times as much money as Bernard. How much did Amanda have at first?

1) \$18

2) \$19

3) \$20

4) \$24

** END OF BOOKLET A**

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Name : _____

Class : Primary 6 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

Primary 6

2015 Preliminary Examination

Mathematics

Paper 1

Booklet B

25 August 2015

Booklet A	20
Booklet B	20
Total (Paper 1)	40

Total Time for Booklets A and B: 50 minutes

INSTRUCTIONS TO CANDIDATES

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Answer all questions.
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Questions **16** to **25** carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

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16. List all the common factors of 18 and 45.

Ans : _____

17. Find the value of $0.64 \div 20$.
Give your answer as a decimal.

Ans : _____

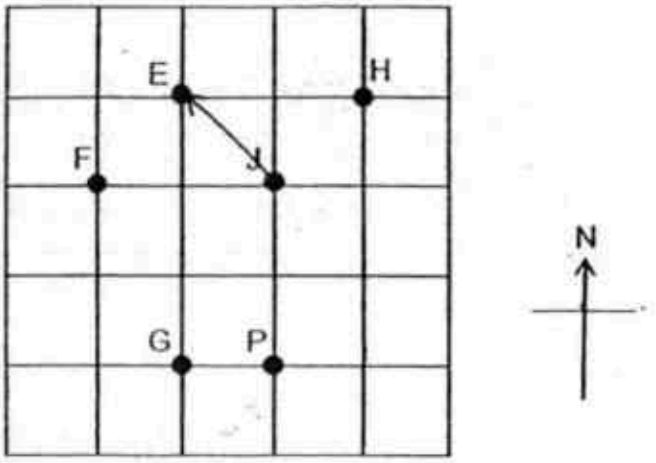
18. Mr Tan drove from Singapore to Malacca at 21 50. He reached Malacca at 02 00 the next day. How long did he take to reach Malacca?

Ans : _____ h

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19. Refer to the square grid below. Which of the points on the square grid is north-west of point J?

Do not write in this space



Ans : _____

20. Express $\frac{35}{400}$ as a percentage.

Ans : _____ %

21. In a stadium, $\frac{4}{11}$ of the spectators are males. What is the ratio of the number of female spectators to the number of male spectators in the stadium?

Ans : _____

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22. Simplify $17 + 9a - 8 - 3a$.

Do not write in this space

Ans : _____

23. What number must be added to 907 100 to give a million?

Ans : _____

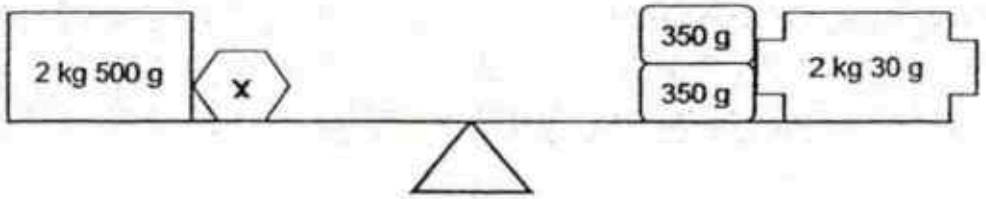
24. Carol mixed $5\frac{2}{3}\ \ell$ of water with $2\frac{3}{5}\ \ell$ of syrup to make some fruit punch. How much fruit punch did Carol make? Give your answer in the simplest form.

Ans : _____ ℓ

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25. The diagram below shows a scale balance.
What is the mass of Object X?

Do not write in this space



Ans : _____ g

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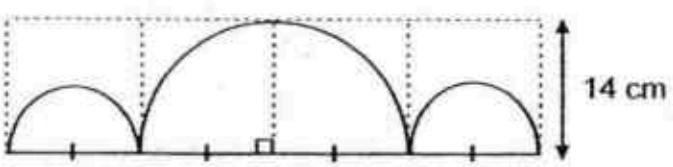
Questions **26** to **30** carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space

26. Mdm Ng gave some money to her grandchildren. $\frac{1}{4}$ of her money was given to Xavier. $\frac{1}{5}$ of her remaining money was given to Ya Ling. The rest of the money was given to Zoe. What fraction of her money did Mdm Ng give Zoe?

Ans : _____

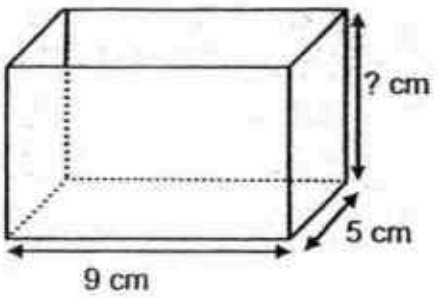
27. The figure below is made up of 3 semi-circles. Find the area of the figure. (Take $\pi = \frac{22}{7}$)



Ans : _____ cm^2

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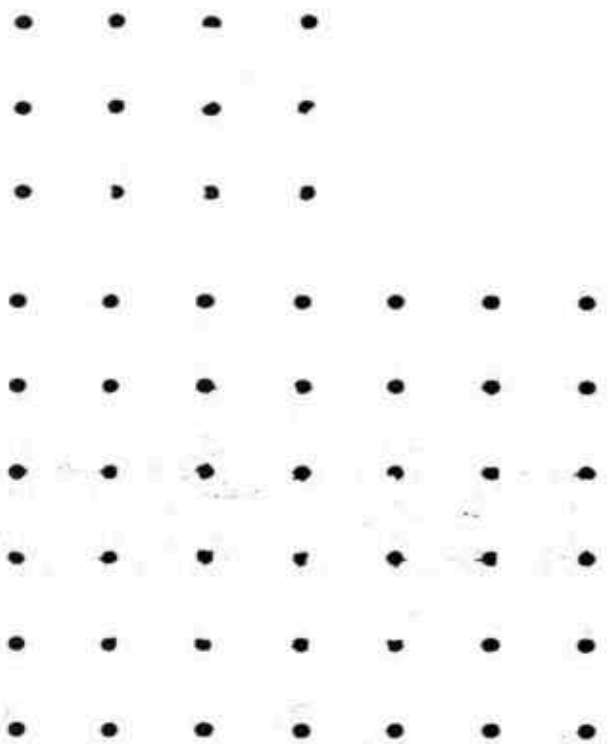
28. The container holds 270 cm^3 of water when it is $\frac{1}{3}$ filled. What is the height of the container?



Ans : _____ cm

Do not write in this space

29. This unit shape is used to form a tessellation in the grid below. The boundary of the tessellation has been drawn for you. How many unit shapes were used to form the tessellation below?

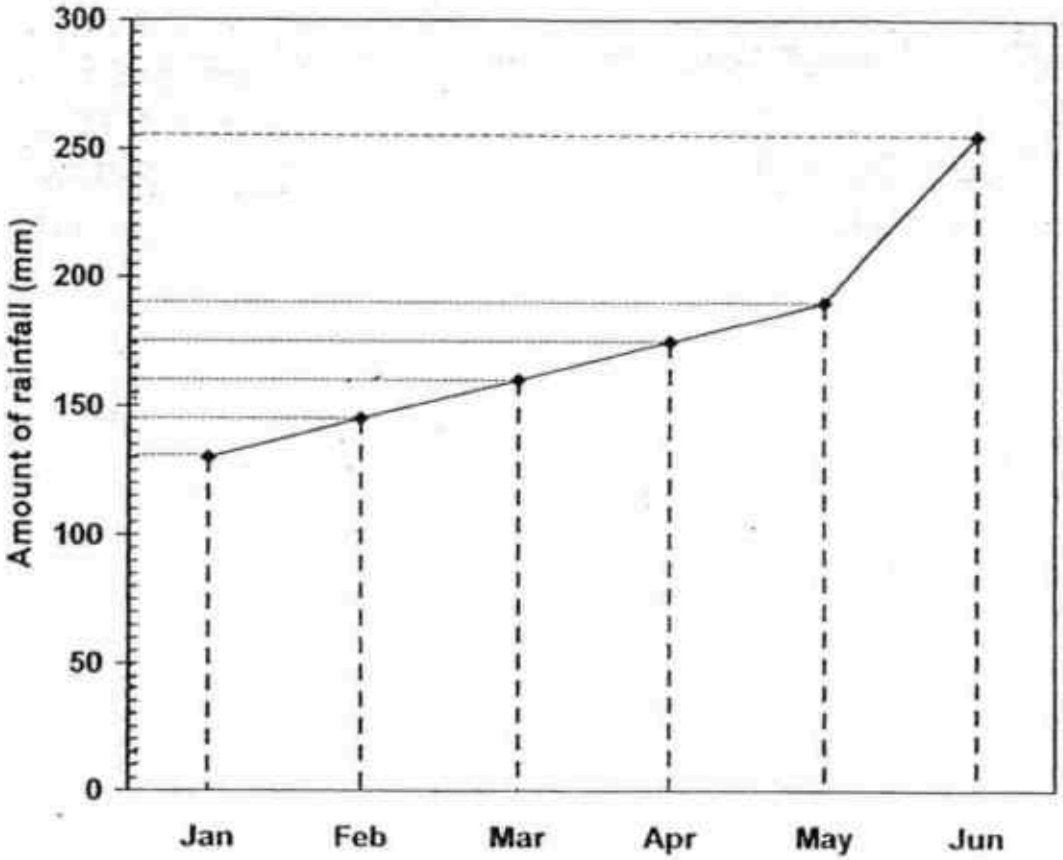


Ans : _____

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30. The line graph shows the amount of rainfall recorded from January to June.

Do not write in this space



How much more rainfall was collected in May than in February?

Ans : _____ mm

END OF PAPER 1

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Name : _____

Class : Primary 6 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

Primary 6

2015 Preliminary Examination

Mathematics

Paper 2

25 August 2015

Paper 1	40
Paper 2	60
Total	100

_____

Parent's / Guardian's Signature

Time: 1 hour 40 minutes

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Answer all questions.
The use of an approved calculator is expected, where appropriate.

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Questions **1** to **5** carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

Do not write in this space.

1. Sally saves $\$5w$ daily. Her brother saves $\$(3w - 1)$ more than her daily. How much do Sally and her brother save altogether daily? Leave your answer in terms of w.

Ans : \$_____

2. At Good Deal Supermarket, potatoes are sold at 85¢ per 100 g. Viveka paid \$14.45 for some potatoes. Find the mass of potatoes that Viveka bought.

Ans : _____ kg

3. $\frac{7}{8}$ m of ribbon was cut into 2 pieces. The shorter piece was 28 cm. What is the difference between the longer piece of ribbon and the shorter piece of ribbon?

Ans : _____ cm

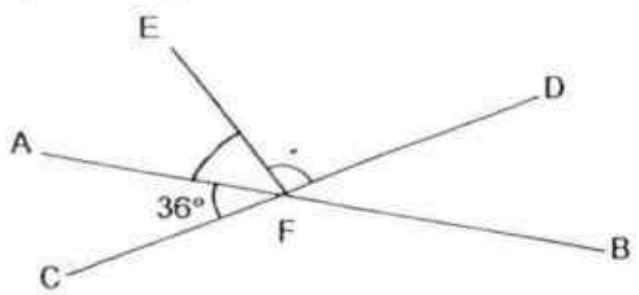
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The perimeter of a rectangle is 30 cm. What is the **greatest** possible area of the rectangle?

Do not write in this space.

Ans : _____ cm^2

The figure below is not drawn to scale. AB and CD are straight lines. $\angle AFC = 36°$ and $\angle EFD$ is twice of $\angle AFE$. Find $\angle EFD$.



Ans : _____ °

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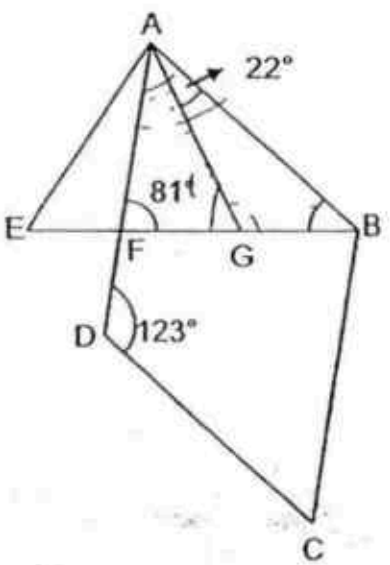
For questions 6 to 18, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (50 marks)

Do not write in this space

6. Martin bought 3 identical red shirts and 5 identical blue shirts. The total cost of the shirts was \$186. Each blue shirt costs \$4.40 more than each red shirt. What is the cost of one red shirt?

Ans: _____ [3]

7. The figure below, not drawn to scale, shows a parallelogram ABCD. $\angle AFG = 81°$, $\angle BAG = 22°$ and $\angle ADC = 123°$. Find $\angle ABG$.



Ans: _____ [3]

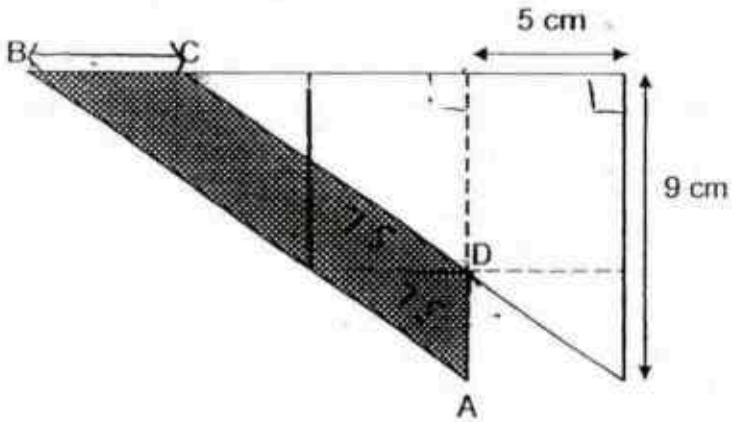
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8. A laptop cost $3200. Mr Ong bought it at a discount but he had to pay an additional 7% GST on the discounted price. In the end, Mr Ong paid a total of $2396.80 for the laptop. What was the percentage discount Mr Ong received for the laptop?

Do not write in this space

Ans: _____ [3]

9. The figure below, not drawn to scale, is made up of two identical right-angled triangles overlapping each other. Find the area of the shaded part ABCD, where AD = 3 cm.

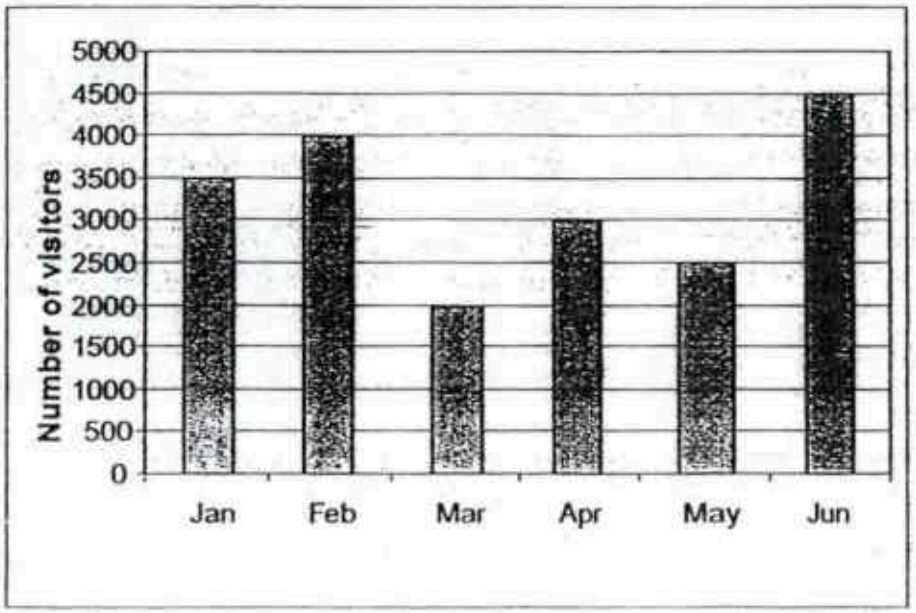


Ans: _____ [3]

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10. The bar graph below shows the number of visitors who visited a carnival for the first 6 months of the year.

Do not write in this space.



In June, $\frac{1}{6}$ of the visitors were adults, and the number of boys was the same as the number of visitors in March. What fraction of the visitors in June were girls?

Ans : _____ [3]

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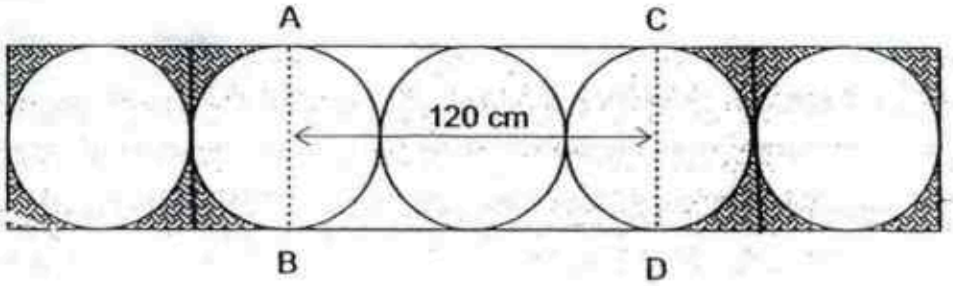
11. A pen costs 95¢ more than a pencil. Catherine bought twice as many pencils as pens. She spent a total of $53.60. She spent $2.40 more on the pens than the pencils. How many pens did Catherine buy?

Do not write in this space.

Ans: _____ [4]

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12. Janet cut out circles of the same size and pasted them on a rectangular strip of paper as shown below. AB and CD are diameters of the circles. What is the total area of the shaded parts?
(Take $\pi = 3.14$)



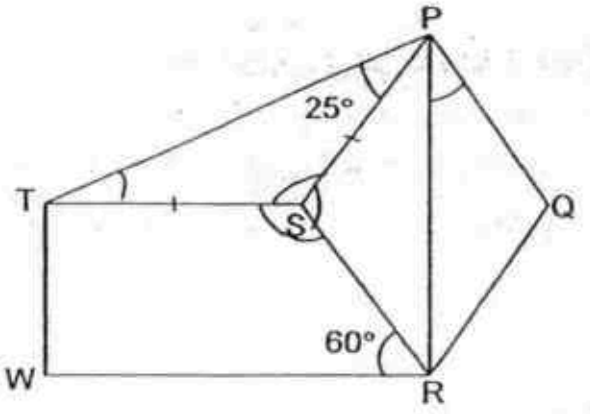
Do not write in this space.

Ans: _____ [4]

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13. In the figure below, not drawn to scale, PQRS is a rhombus and RSTW is a trapezium. Find ∠QPR.

Do not write in this space.



Ans: _____ [4]

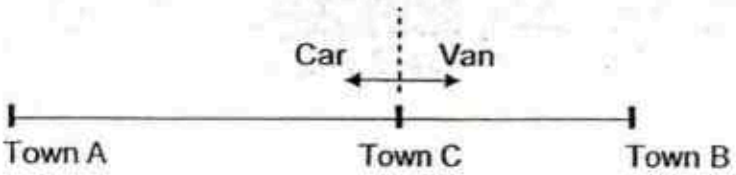
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14. A car and a van set off from Town C in opposite directions at 11 30. The car travelled towards Town A at an average speed of 80 km/h while the van travelled towards Town B at an average speed of 60 km/h. When the car reached Town A at 14 00, the van was still 15 km away from Town B.

Do not write in this space.

(a) What was the distance between Town A and Town B?

(b) At what time did the van reach Town B?



Ans : (a) _____ [3]

(b) _____ [1]

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15. The table below shows the rates of charges for water consumption in a month.

Amount of Water Used	Charges per unit (cents)
First 30 units	137
Subsequent units	160

Rosia used 44 units of water. She paid the cashier a 50-dollar note and some 50-cent and 20-cent coins. The number of 50-cent coins is half the number of 20-cent coins. How many 20-cent coins did the cashier receive from Rosia?

Do not write in this space.

Ans: _____ [4]

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16. A fruit stall owner had some pears, apples and oranges. For every 2 pears, there were 3 apples. For every 9 apples, there were 5 oranges.

Do not write in this space.

(a) What is the ratio of the number of pears to the number of apples to the number of oranges the fruit stall owner had?

(b) 36 pears were rotten and thrown away. Then $\frac{1}{5}$ of the remaining fruits were pears. How many fruits did the fruit stall owner have at first?

Ans : (a) _____ [1]

(b) _____ [4]

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17. In a warehouse, $\frac{2}{5}$ of the mobile phones are Brand A, $\frac{4}{5}$ of the remainder are Brand B and the rest are Brand C. After shipping out 20% of Brand A mobile phones, 25% of Brand B mobile phones and $\frac{1}{3}$ of Brand C mobile phones, there were 228 mobile phones left.

(a) What fraction of the mobile phones was shipped out? Give your answer in its simplest form.

(b) How many more Brand A mobile phones than Brand C mobile phones were left in the warehouse?

Do not write in this space.

Ans : (a) _____ [2]

(b) _____ [3]

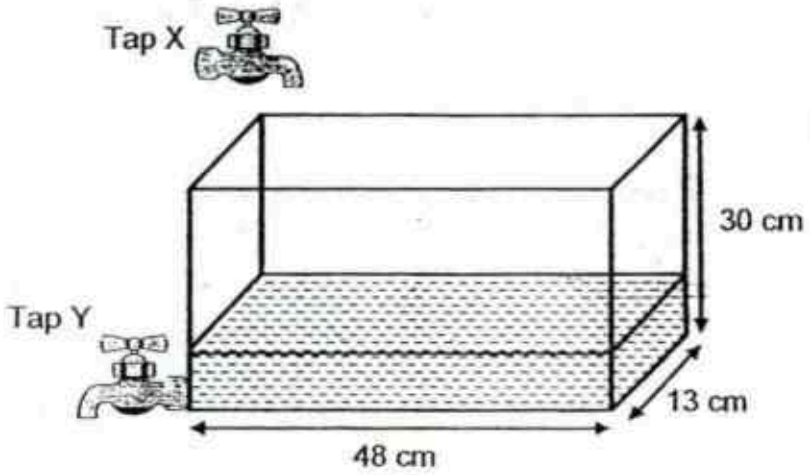
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18. A tank measuring 48 cm by 13 cm by 30 cm contained 2.62 ℓ of water.

Do not write in this space.

(a) Tap X was turned on, with water flowing into the tank at 700 mℓ per minute. When the tank was filled with water completely, Tap X was turned off. How long did it take for Tap X to fill up the tank completely?

(b) Then Tap Y was turned on, with water draining out of the tank at 936 mℓ per minute. 15 minutes later, Tap Y was turned off. How much water was left in the tank?



Ans : (a) _____ [3]

(b) _____ [2]

** END OF PAPER **

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CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)
2015 PRELIMINARY EXAMINATION
PRIMARY 6 MATHEMATICS
PAPER 1

1) 2	2) 3	3) 4	4) 3	5) 2	6) 2	7) 3	8) 1	9) 1
10) 3	11) 2	12) 2	13) 3	14) 4	15) 2			

16) 1, 3, & 9

17) 0.64÷20 = 0.064÷2 = 0.032

18) 4/1/6 h

19) Point E

20) 8.75%

21) 7 : 4

22) 9a-3a+17-8 = 6a+9

23) 92 900

24) 5/10/15+2/9/15 = 8/4/15 *l*

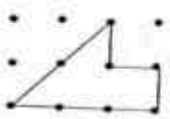
25) 2030+350+350-2500 = 230 g

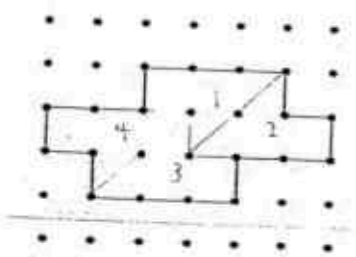
26) 1/5x3/4 = 3/20
1-1/4-3/20 = 12/20 = 3/5 of Mdm Ng's money

27) 1/2x22/7x14x14 = 308 sq cm
22/7x7x7 = 154 sq cm
308+154 = 462 sq cm

28) 270÷(9x5) = 6 cm
6 cm x 3 = 18 cm

29)





30) 190-145 = 45 mm

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PAPER 2

1) 5w+5w+3w-1 =$(13w-1)

2) $14.45÷$0.85 = 17
17x100g = 1700g = 1.7kg

3) 7/8x100 = 87.5 cm
87.5-28 = 59.5 cm
59.5-28 = 31.5 cm

4) 8x7 = 56 sq cm

5) 3u -- 180°-36° = 144°
2u -- 2/3x144° = 96°

6) $4.40x5 = $22
8u -- $186-$22 = $164
1u -- 1/8x$164 = $20.50

7) Angle DFG = 180°-81° = 99°
Angle GBC = 81°
Angle ABG = 123°-81° = 42°

8) 107% -- $2396.80
100% -- 100/107x$2396.80 = $2240
$3200-$2240 = $960
960/3200x100% = 30%

9) 6 Triangles = 5x9 = 45 sq cm
5 Triangles = 5/6x45 = 37.5 sq cm

10) A -- 1/6x4500 = 750
C -- 5/6x4500 = 3750
B -- 2000
G -- 3750-2000 = 1750
Fraction of visitors = 1750/4500 = 7/18

11) 53.60-2.40 = 51.20
51.20÷2 = 25.60
25.60+2.40 = 28
25.60÷2 = 12.80
28-12.80 = 15.20
15.20÷0.95 = 16 pens

12) 120÷4 = 30
30x6 = 180
30x2 = 60
180x60 = 10800
3x3.14x30x30 = 8478
10800-8478 = 2322 sq cm

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13) Angle TSP = 180°-25°-25° = 130°
Angle TSR = 180°-60° = 120°
Angle PSR = 360°-120°-130° = 110°
Angle SPR = (180°-110°)÷2 = 35°
Angle SPQ = 180°-110° = 70°
Angle QPR = 70°-35° = 35°

14) 80x2/1/2 = 200 km
60x2/1/2 = 150 km
a) 200+150+15 = 365 km
15÷60 = 1/4 h = 15 min
b) hence, the van reached Town B at 14 15

15) 44u-30u = 14u
$1.37x30 = $41.10
$1.60x14 = $22.40
$41.10+$22.40 = $63.50
$63.50-$50 = $13.50
($0.20x2)+$0.50 = $0.90
$13.50÷$0.90 = 15
15x2 = 30 20¢ coins

16) P : A : O
2 : 3
9 : 5
---
a) 6 : 9 : 5
4u -- 14 parts
1u -- 1/4x14 = 3.5 parts
6-3.5 = 2.5 parts
2.5 parts -- 36
b) 20 parts -- 20÷2.5x36 = 288 fruits

17) 4/5x3/5 = 12/25 (Brand B)
1-2/5-12/25 = 3/25 (Brand C)
0.8x0.4 = 0.32u (Brand A)
0.75x12/25 = 0.36u
2/3x3/25 = 0.08u
0.32u+0.36u+0.08u = 0.76u
a) 1u-0.76u = 0.24u = 6/25 of the mobile phones was shipped out
0.76u -- 228
b) 0.24u -- 0.24÷0.76x228 = 72 more Brand A mobile phones than Brand C mobile phones were left

18) 48x13x30 = 18 720 cubic cm
18720-2620 = 16 100 cubic cm
a) 16100÷700 = 23 min
936x15 =14 040 cubic cm
b) 18720-14040 = 4680 cubic cm

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SINGAPORE CHINESE GIRLS' SCHOOL

PRELIMINARY EXAMINATION 2015

PRIMARY 6

MATHEMATICS
PAPER 1

BOOKLET A

Name : _____( )

Class : Primary 6 SY / C / G / SE / P

26 August 2015

		Marks attained	Max Mark
Paper 1	Booklet A		20
	Booklet B		20
Paper 2			60
Total Marks			100

Parent's Signature

15 Questions
20 Marks

Total Time for Booklets A and B: 50 min

INSTRUCTIONS TO CANDIDATES
Do not open this booklet until you are told to do so.
Follow all instructions carefully.
Answer all questions.
You are **not** allowed to use a calculator

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Booklet A

Questions **1** to **10** carry 1 mark each. Questions **11** to **15** carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet. **(20 marks)**

---

1. What is the value of the digit 7 in 419.675?

   (1) 7 tens
   (2) 7 tenths
   (3) 7 hundreds
   (4) 7 hundredths

2. Which of the following is the most likely ratio of the length of the Singapore flag to its breadth?

   (1) 2 : 1
   (2) 3 : 1
   (3) 3 : 2
   (4) 5 : 2

3. Which of the following has the biggest value?

   (1) $\frac{2}{7}$
   (2) 0.22
   (3) 32%
   (4) $\frac{1}{5}$

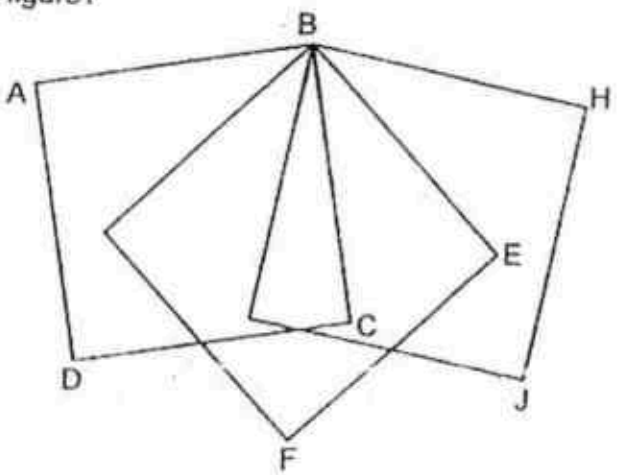
4. Which of the following number is the largest common factor of 6 and 12?

   (1) 6
   (2) 2
   (3) 3
   (4) 12

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5. The following figure is made up of three overlapping squares. How many pairs of perpendicular lines are there in the figure?

(1) 6
(2) 9
(3) 12
(4) 15



6. Express 3 minutes as a percentage of $2\frac{1}{2}$ hours.

(1) $1\frac{1}{5}\%$
(2) 2%
(3) 12%
(4) 120%

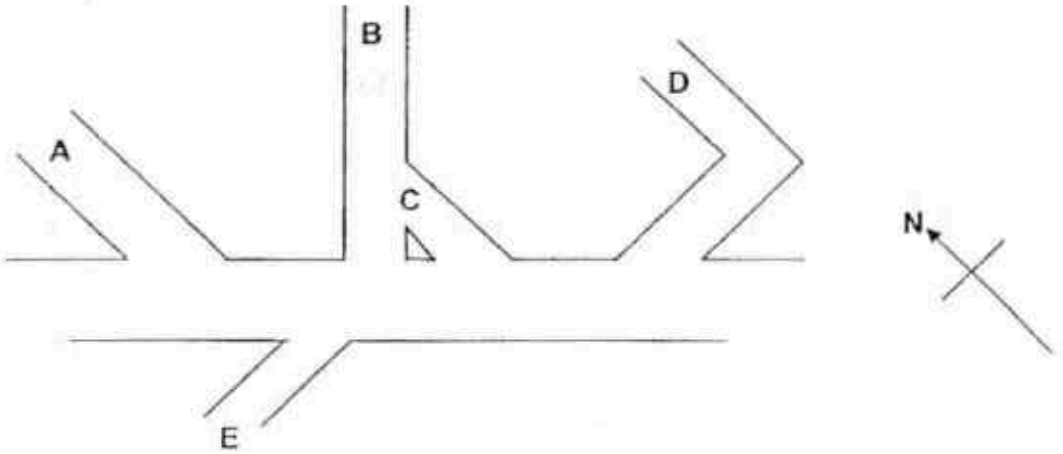
7. In the number line shown below, which value is closest to the letter **A**?



(1) 67.4
(2) 67.7
(3) 68.1
(4) 68.8

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8. The figure shows a road map.



Devi started walking southward from one of the points A, B, C and D. She then turned southeast and continued walking. Finally, she walked towards the west and reached her destination at point E. At which point did Devi start her journey?

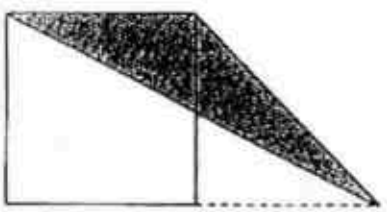
(1) A

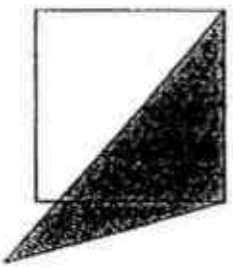
(2) B

(3) C

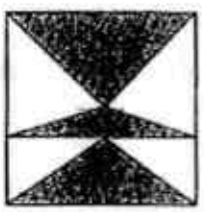
(4) D

9. The squares shown below are identical. Which of the following shaded areas is more than half the area of the square?

(1) 

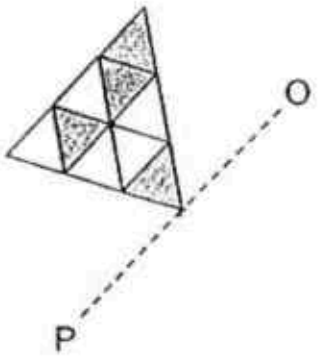
(2) 

(3) 

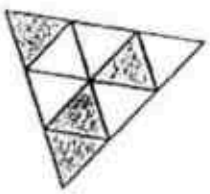
(4) 

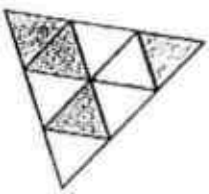
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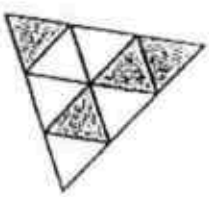
10. The figure below shows the top half of a symmetric figure. OP is the line of symmetry.

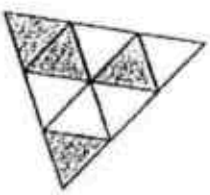


Which of the following completes the symmetric figure?

(1) 

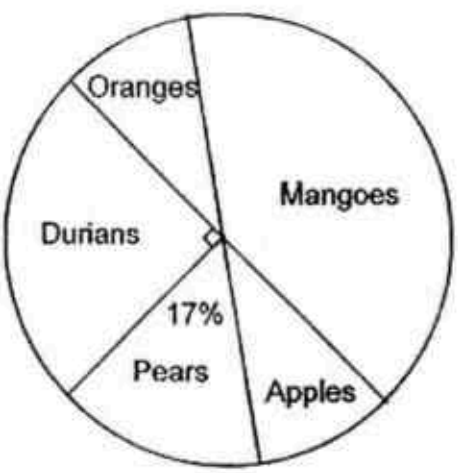
(2) 

(3) 

(4) 

11. The pie chart shows the favourite fruits of a group of people. 50% of the people like durians, oranges and pears. 33% of the people like apples, oranges and pears. If 72 more people like pears than oranges, what is the total number of people in the group?

(1) 288
(2) 450
(3) 800
(4) 900

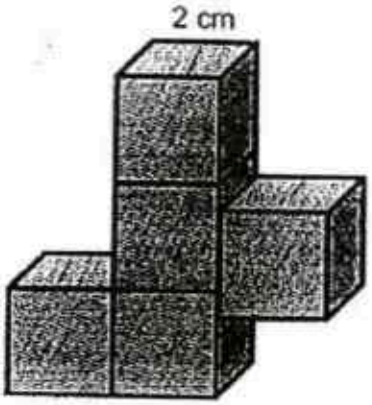


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12. The ratio of the number of guppies to the number of angelfish in a pond is m : 3. There are 48 angelfish in the pond. How many fishes are there in the pond altogether?

(1) 48m + 3
(2) 16m + 48
(3) 16m + 3
(4) 16m

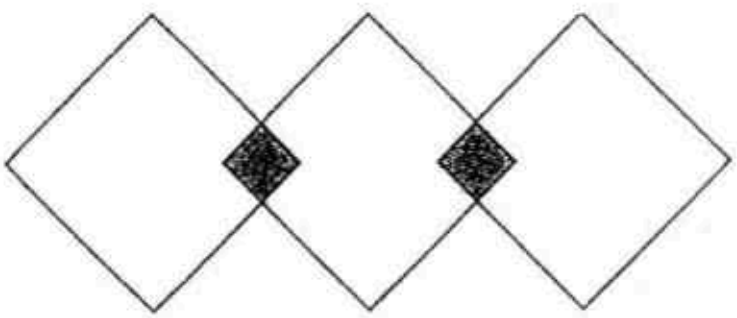
13. The solid below is made up of five 2-cm cubes. James sprayed the whole solid with paint. What area of the solid is covered with paint?



(1) 64 cm^2
(2) 72 cm^2
(3) 80 cm^2
(4) 88 cm^2

14. The figure below shows 3 overlapping identical squares, with two overlapped areas of the same size. If the area of each big square is 120 cm^2 and the area of the whole figure is 300 cm^2, what is the area of each overlapped part?

(1) 15 cm^2
(2) 20 cm^2
(3) 30 cm^2
(4) 60 cm^2



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15. Box B contained 50% more peaches than Box A. Box C contained 25% as many peaches as Box A. An equal number of peaches were transferred from Box A and Box B into Box C. Now, the number of peaches in Box C is thrice its original number. What is the ratio of the number of peaches in Box A to the number of peaches in Box B to the number of peaches in Box C in the end?

(1) 1 : 3 : 3
(2) 3 : 5 : 3
(3) 4 : 1 : 6
(4) 4 : 7 : 6

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SINGAPORE CHINESE GIRLS' SCHOOL

PRELIMINARY EXAMINATION 2015

PRIMARY 6

MATHEMATICS
PAPER 1

BOOKLET B

Name : _____( )

Class : Primary 6 SY / C / G / SE / P

26 August 2015

Paper 1	Mark attained	Max Mark
Booklet B		20

15 Questions

20 Marks

Total Time for Booklets A and B: 50 min

INSTRUCTIONS TO CANDIDATES

Do not open this booklet until you are told to do so.
Follow all instructions carefully.
Answer all questions.
You are not allowed to use a calculator

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Name:_____( ) Class: P6 SY / C / G / SE / P

Do not write in this column

Questions **16** to **25** carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. **(10 marks)**

16. Find the value of $3 - \frac{1}{2} - \frac{3}{5}$

(Express your answer as a fraction in its simplest form)

Ans: _____

17. Find the value of 2763 ÷ 9.

Ans: _____

18. 143 ÷ 100 = _____ × 10.

Ans: _____

3

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19. Evaluate $2 \times 35 + (11 - 6) \div 5$

Do not write in this column

Ans: _____

20. Lynn and Mel shared some paper clips equally. Mel used 18 of her clips, after which the ratio of the number of Lynn's clips to the number of Mel's clips became 3 : 1. How many clips did each of the girls have at first?

Ans: _____

21. Cindy baked 2 pizzas. She kept $\frac{3}{5}$ of a pizza for herself and shared the remaining pizzas equally among her friends. If each of her friends received $\frac{1}{5}$ of a pizza, how many of her friends received the pizzas?

Ans: _____

3

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22. A rectangular tank is $\frac{1}{3}$ filled with water. If another 160 litres of water is needed to fill the ~~container~~ tank to its brim, what is the capacity of the tank?

Do not write in this column

Ans: _____ ℓ

23. Mrs Goh packed 1.5 kg of flour equally into 8 small packets and had some flour left. How much flour had she left?

Ans: _____ g

2

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24. Joy spent 20% of her money while Ken spent 25% of his money. If they spent the same amount of money, what is the ratio of Joy's money to Ken's money? (Express your answer in its simplest form)

Do not write in this column

Ans: _____

25. A number, when divided by 6, gives a quotient of 13 and a remainder of 4. What is this number?

Ans: _____

2

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Questions **26** to **30** carry 2 marks each. Show your working clearly in the space for each question and write your answers in the spaces provided.
For questions which require units, give your answers in the units stated. **(10 marks)**

Do not write in this column

26. Mr Tan started painting his house at 8.15 a.m. He spent $3\frac{1}{2}$ h painting before lunch. He took an hour's lunch break and spent another $2\frac{3}{4}$ h painting after lunch. At what time did he stop painting?

Ans: _____ p.m.

27. Jaslyn baked some almond cookies and butter cookies. She gave away 30% of the almond cookies. The number of butter cookies that she ate was $\frac{1}{2}$ the number of almond cookies given away. If Jaslyn had 42 almond cookies left, how many butter cookies did she eat?

Ans: _____

4

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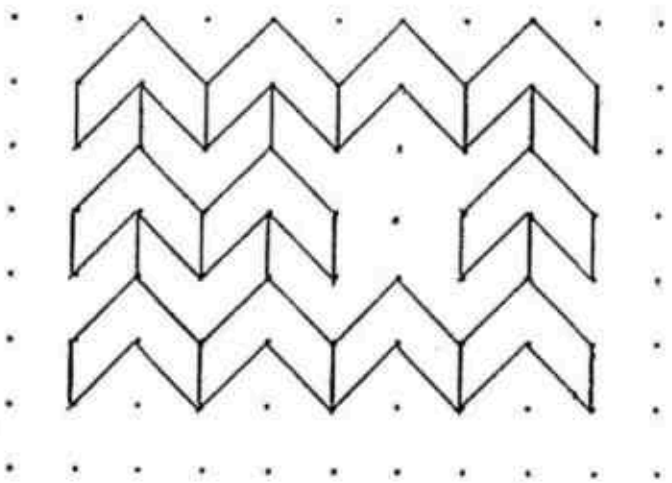
28. The following shows a sequence of numbers starting with 13. What is the value of the 100th number of the sequence?

Do not write in this column

13, 17, 21, 25, 29, ...

Ans: _____

29. There are 5 missing unit shapes in the tessellation below. Draw the missing unit shapes clearly in the grid, such that all unit shapes are joined together.



4

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30. Some marbles were distributed equally among 8 boys. Each of these boys gave away 12 marbles. In the end, the total number of marbles that the boys had was equal to the total number of marbles 5 of the boys had at first.
How many marbles did each boy have at first?

Do not write in this column

Ans: _____

End of Paper 1

2

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SINGAPORE CHINESE GIRLS' SCHOOL

PRELIMINARY EXAMINATION 2015

PRIMARY 6

MATHEMATICS

PAPER 2

Name : _____( ) 26 August 2015

Class : Primary 6 SY / C / G / SE / P

	Mark	Max Mark
Paper 2		60

Parent's Signature

18 Questions
60 Marks

Total Time For Paper 2: 1 h 40 min

INSTRUCTIONS TO CANDIDATES
Do not open this booklet until you are told to do so.
Follow all instructions carefully.
Answer all questions.

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Questions **1** to **5** carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. **(10 marks)**

Do not write in this column

1 Mrs Yong prepared a pot of coffee using coffee powder, creamer and sugar in the ratio 6 : 2 : 1. If she used 18.2 g of creamer, how much more coffee powder than sugar did she use?

Ans: _____ g

2 Jessie folded a total of 230 paper cranes in 5 days. Each day, she folded 8 more paper cranes than the previous day. How many paper cranes did she fold on the last day?

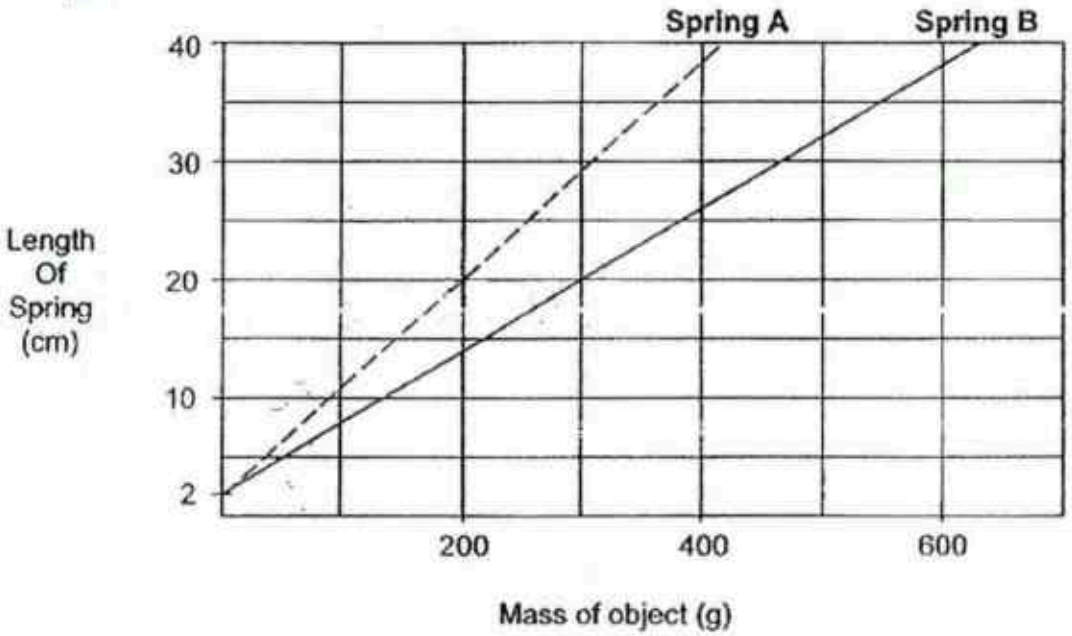
Ans: _____

4

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3. The graph below shows the length of two springs when an object was hung on each spring. Find the length of each spring that was stretched for every 10g of the object.

Do not write in this column



Ans: Spring A: _____ cm [1]

Spring B: _____ cm [1]

---

4. Meiling jogged along a path at a constant speed of 110 m/min. Five minutes after she started jogging, Wenshan started jogging along the same path at 30 m/min faster than Meiling. How long will Wenshan take to jog 170 m more than Meiling?

Ans: _____ min

4

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5. In the figures below, two corners of a triangular piece of paper are folded inward, then outward to form a symmetrical shape as shown in Figure B. $\angle PQR = 11°$ and $\angle PQS = 23°$. Find $\angle TQR$.

Do not write in this column

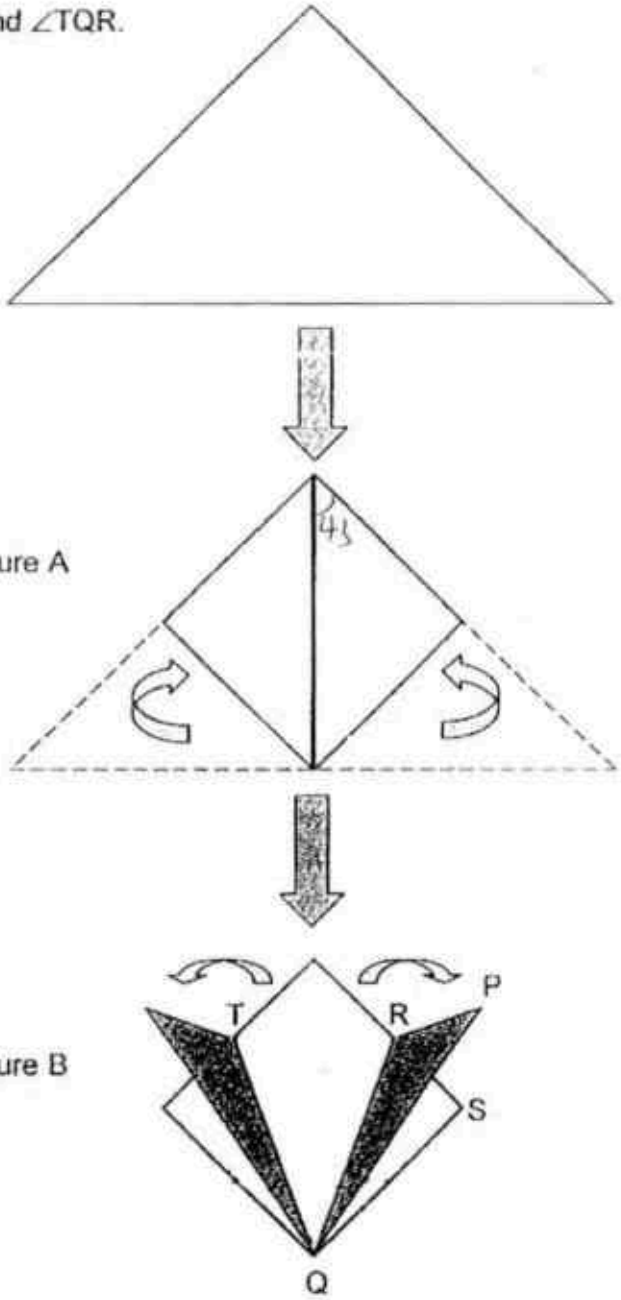


Figure A

Figure B

Ans: _____ °

2

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For questions **6** to **18**, show your working clearly in the space below each question and write your answers in the spaces provided. The number of marks awarded is shown in brackets [ ] at the end of each question or part-question. **(50 marks)**

Do not write this column

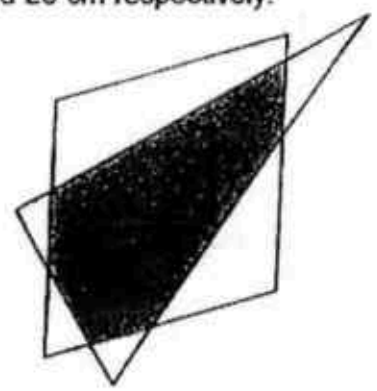
6. Madam Rosnah prepared some dough for baking. She divided the dough into equal portions, each weighing 25 g. If she had divided the dough into 20-gram portions instead, she would have 9 more portions of dough. What is the total amount of dough that Madam Rosnah had prepared? (Express your answer in kg)

Ans: _____ [3]

7. The figure below is made up of a right-angled triangle and a rhombus overlapping each other. $\frac{2}{9}$ of the triangle and $\frac{1}{2}$ of the rhombus are unshaded.

The base and height of the triangle are 18 cm and 28 cm respectively.

What is the area of the rhombus?



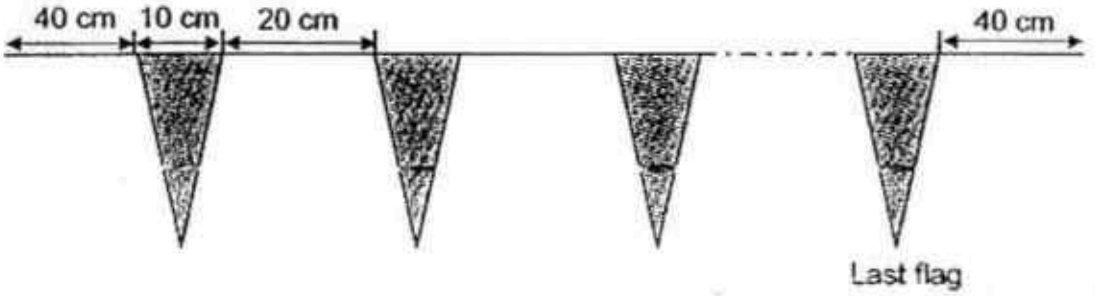
Ans: _____ [3]

6

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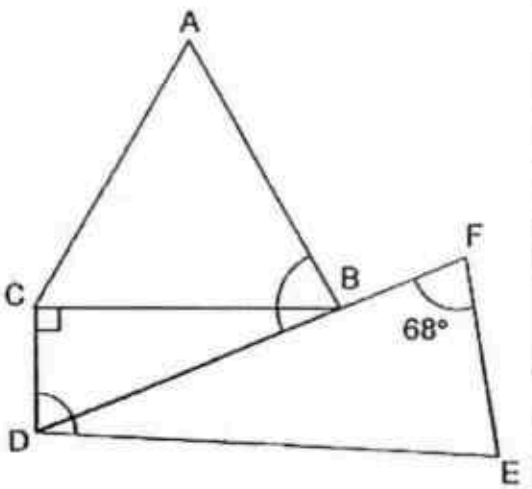
Do not write in this column

8. Billy used a piece of string to hold some coloured flags, each 10 cm wide, as shown in the diagram below. Each flag was strung 20 cm apart from one another. Billy also gave an allowance of 40 cm each before the first flag and after the last. If the length of the string used was 13.2 m, how many flags did he string altogether?



Ans: _____ [3]

9. The figure below is made up of three triangles. ABC is an equilateral triangle, BCD is a right-angled triangle and DEF is an isosceles triangle. $\angle EFD = 68°$. Find the sum of $\angle CDE$ and $\angle ABD$.



Ans: _____ [3]

6

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10. Kenneth leaves his home at the same time every morning and cycles to school. He usually cycles at a speed of 300 m/min and reaches school 6 minutes before the school bell rings. On days when he was tired, he cycled at a speed of 200 m/min but reaches school 3 minutes after the school bell rings.
Find the distance between his home and school. (Express your answer in km)

Do not write in this column

Ans: _____ [3]

3

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11. The number of children in a town decreased to 8827, while the number of adults increased by 42% to 15 194. The total number of people decreased by 259.

(a) What is the increase in the number of adults?

(b) What is the percentage decrease in the total number of children?

Do not write in this column

Ans: (a) _____ [1]

(b) _____ [3]

4

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12. There were 500 more fiction books than non-fiction books in a bookshop. When more books were added to the bookshop, the number of fiction books increased by $\frac{1}{4}$, while the number of non-fiction books increased by $\frac{2}{3}$. The total number of books became 3145. How many non-fiction books were there after the increase?

Do not write in this column

Ans:_____ [4]

4

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13. Maria bought 4 identical plates with $\frac{3}{5}$ of her money. She bought 2 more of the same plate and 5 identical cups with her remaining money.

Do not write in this column

(a) If Maria decided to spend all her money on the cups instead, how many of those cups could she buy altogether?

(b) If each cup cost $1.80, how much money did Maria have at first?

Ans: a) _____ [3]

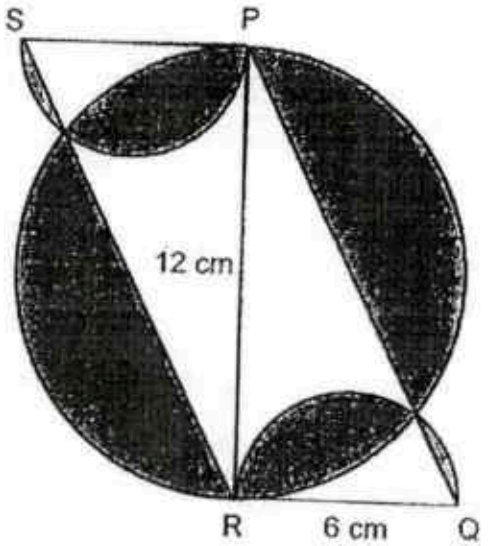
b) _____ [1]

4

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14. The figure below is made up of a circle, a parallelogram and two identical semi-circles. The diameter of the circle, PR, is 12 cm and the diameter of the semi-circles is 6 cm. PR is perpendicular to SP and RQ.
Find the area of the shaded parts. (Take $\pi = 3.14$)

Do not write this column



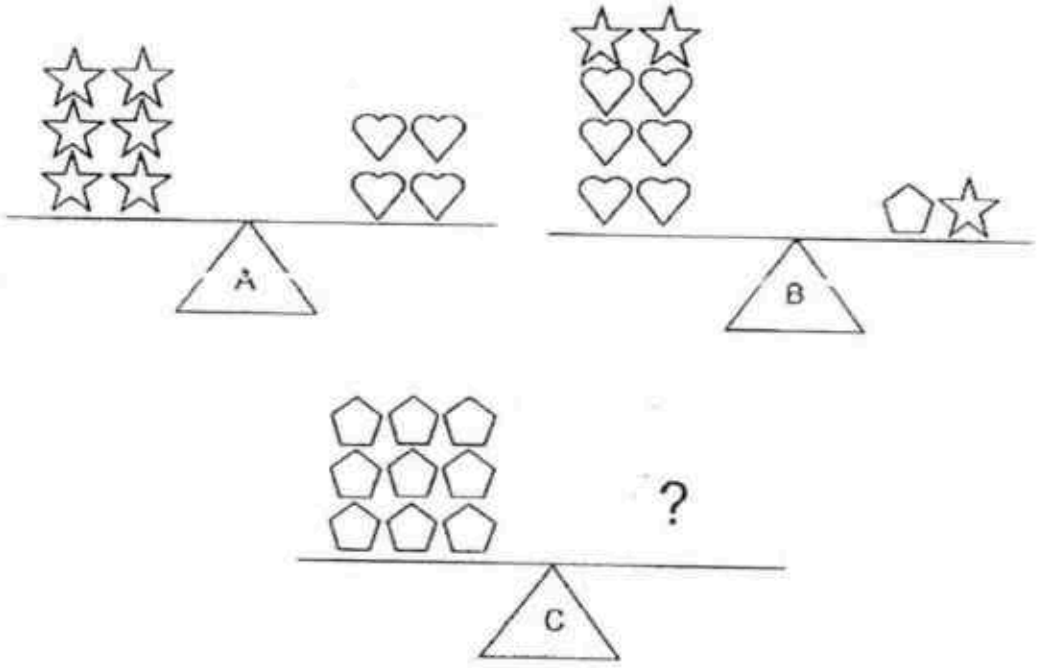
Ans: _____ [4]

4

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15. The diagrams below show the number of objects needed to keep the weighing scales balanced.

How many ♡ are needed to keep weighing scale C balanced?



Do not write in this column

Ans: _____ [4]

4

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16. Mr Halim picked thrice as many strawberries as tomatoes from a fruit farm. While sorting the fruits, he found that only 45% of the fruits were edible. The ratio of the number of edible strawberries to the number of edible tomatoes was 2 : 7. There were 395 more edible tomatoes than edible strawberries.

Do not write this column

(a) What was the total number of strawberries and tomatoes that were edible?

(b) How many strawberries did Mr Halim pick at first?

Ans: (a) _____ [2]

(b) _____ [3]

5

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17. Machine A packed 92 packets of biscuits in one minute. Ten minutes after Machine A started packing the biscuits, Machine B was activated, packing 130 packets of biscuits in one minute.

Do not write in this column

(a) How many minutes did Machine B take to pack 2120 packets of biscuits more than Machine A?

(b) How many packets of biscuits did both machines pack altogether for that duration?

(c) Given that both machines stopped packing at 15 45, at what time did Machine A start to pack the biscuits? (Give your answer in the 24-hour clock format)

Ans: (a) _____ [2]

(b) _____ [2]

(c) _____ [1]

5

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18 Dorcas bought some bags from a wholesaler at $4 each and sold them at $10 each. All her customers bought either one or five bags from her. Customers who bought five bags from her were given one free bag.

Do not write this column

(a) Peter bought some bags and was given 140 free bags. How many bags did he receive in all?

(b) At the end of the day, Dorcas had earned $3736 after deducting what she had paid to the wholesaler. Assuming only Peter bought multiple bags, how many customers bought only one bag from Dorcas?

Ans: (a) _____ [2]

(b) _____ [3]

5

End of Paper
--- Please check your work thoroughly ---

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SINGAPORE CHINESE GIRLS' SCHOOL
PRELIMINARY EXAMINATION 2015
PRIMARY 6 MATHEMATICS
PAPER 1

1) 4	2) 3	3) 3	4) 1	5) 3	6) 2	7) 3	8) 1
9) 2	10) 3	11) 3	12) 2	13) 4	14) 3	15) 2	

16) 3-5/10-6/10 = 1/9/10

17) 307

18) 0.143

19) 70+5÷5 = 70+1 = 71

20) 3÷2X18 = 27

21) (2-3/5)÷(1/5) = 7 friends

22) 3÷2x160 = 240 *l*

23) 1500÷8 = 187 R 4
Ans : 4 g

24) 5 : 4

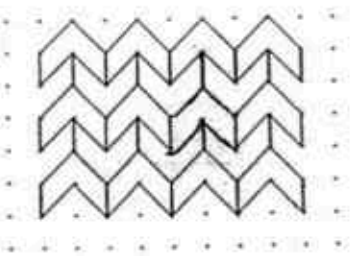
25) 13x6 = 78
76+4 = 82

26) 3.30 p.m.

27) 7u -- 42
1.5u -- 1.5÷7x42 = 9 butter cookies

28) 100-1 = 99
99x4 = 396
396+13 = 409

29)



30) 12x8 = 96
96÷3 = 32 marbles

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PAPER 2

1) 2u -- 18.2g
   5u -- 5/2x18.2 = 45.5 g

2) 8+16+24+32 = 80
   230-80 = 150
   150÷5 = 30
   30+32 =62 paper cranes

3) Spring A : 0.9 cm
   Spring B : 0.6 cm

4) 110x5 = 550 m
   170 + 550 = 720 m
   720÷30 = 24 min

5) 44°-11°-23° = 11°
   11°x2 = 22°

6) 20x9 = 180
   25-20 = 5
   180÷5 = 36
   36x25 = 900 g = 0.9 kg

7) 1/2x18x28 = 252
   9u -- 252 sq cm
   14u -- 14/9x252 = 392 sq cm

8) 1320-40-40 = 1240
   1240+20 = 1260
   10+20 = 30
   1260÷30 =42 flags

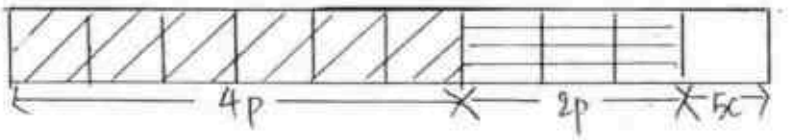
9) Angle FDE = 180°-68°-68° = 44°
   Angle CDB + Angle CBD = 180°-90° = 90°
   Sum of Angle CDE and Angle ABD = 60°+90°+44° = 194°

10) 3+6 = 9
    1u -- 9 min
    2u -- 2x9 = 18 min
    18x300 = 5400 m = 5.4 km

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11) 142% -- 15194
a) 42% -- 42/142x15194 = 4494 adults
4494+259 = 4753
4753+8827 = 13580
b) 4753/13580x100% = 35%

12) 4p-3u = 500
5p+5u = 3145
1p+1u = 3145÷5 = 629
4p+4u = 629x4 = 2516
7u = 2516-500 = 2016
5u = 5/7x2016 = 1440 non-fiction books

13) 

1u -- 5 cups
a) 10u -- 10x5 = 50 cups
b) $1.80x50 = $90

14) A+B+C = 1/2x3.14x6x6 = 56.52 sq cm
B+C+D = 1/2x12x6 = 36 sq cm
C+D+E = 1/2x3.14x3x3 = 14.13 sq cm
A+B+C+B+C+D+C+D+E = 56.52+36+14.13 = 106.65 sq cm
A+C+E = 106.65-2x36 = 34.65 sq cm
Area of shaded parts = 34.65x2 = 69.3 sq cm

15) 1 pentagon = 1 star + 6 hearts
6 stars = 1 star + 10 hearts
5 stars = 10 hearts
1 star = 2 hearts
1 pentagon = 2 hearts + 6 hearts = 8 hearts
9 pentagons = 9x8 = 72 hearts

16) 2 : 7 = 10% : 35%
25% -- 395
a) 45% -- 45/25x395 = 711 strawberries and tomatoes
100% -- 100/45x711 = 1580
1580÷4 = 395
b) 395x3 = 1185 strawberries

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17) 92x10 = 920
130-92 = 38
2120+920 = 3040

a) 3040÷38 = 80 min
Machine B -- 80x130 = 10400
Machine A -- 90x92 = 8280

b) Total = 8280+10400 = 18680 packets

c) 14 15

18) 5+1 = 6

a) 6x140 = 840 bags
Amount of money collected from Peter = 5x140x10 = $7000
Cost of 840 bags = 840x$4 = $3360
Profit = $7000-$3360 = $3640
Remaining profit = $3736-$3640 = $96

b) Number of customers = 96÷6 = 16

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CATHOLIC HIGH SCHOOL

PRELIMINARY EXAMINATION 2 2015

MATHEMATICS

PRIMARY 6

PAPER 1

(BOOKLET A)

Name : _____( )

Class: Primary 6 _____

Date: 25 August 2015

Total Time for Booklets A and B: 50 min

15 questions

20 marks

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Shade your answers in the Optical Answer Sheet (OAS) provided.

The use of calculators is **NOT** allowed.

Booklet A and B consist of 15 printed pages.

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Questions **1** to **10** carry 1 mark each. Questions **11** to **15** carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet. All diagrams are not drawn to scale. (20 marks)

---

1. Express one hundred and two thousand and thirty-four in figures.

   (1) 12 034
   (2) 102 034
   (3) 1 002 034
   (4) 1 020 034

---

2. Express 9070 cm in m.

   (1) 907 m
   (2) 9.07 m
   (3) 90.7 m
   (4) 90.07 m

---

3. Which one of the following is the most likely area of a student EZLink card?

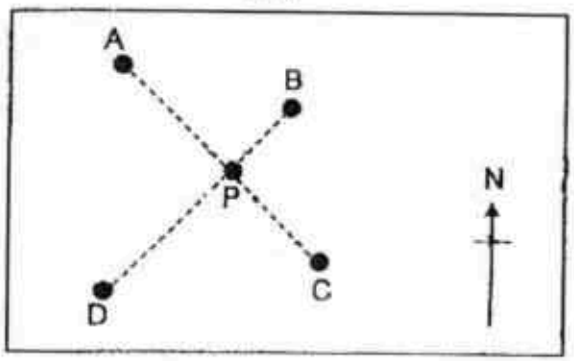
   (1) 46 cm^2
   (2) 46 m^2
   (3) 460 cm^2
   (4) 460 m^2

(Go on to the next page)

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4. A, B, C, D and P are towns on a map. Zachariah is in Town P.
The next town he is heading to is South-East of Town P.
Which town on the map is he heading to?

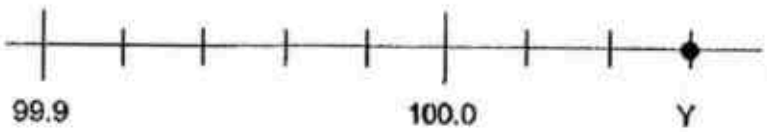
Map



(1) A
(2) B
(3) C
(4) D

---

5. Part of a scale is shown below.



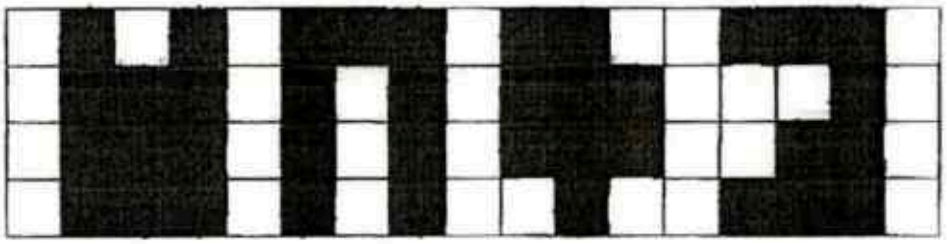
What is the value of the reading at Point Y?

(1) 100.3
(2) 100.6
(3) 100.03
(4) 100.06

(Go on to the next page)

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6. Figures A, B, C and D are shaded in a square grid.



Which shaded figure has the longest perimeter?

(1) A

(2) B

(3) C

(4) D

---

7. Ivan had four 20-cent coins and two 50-cent coins.
He put some 20-cent and 50-cent coins into a donation box.
Which one of the following amount could he have donated?

(1) $0.80

(2) $1.00

(3) $1.10

(4) $1.50

---

8. What is the value of 152 + y − y + 2 when y = 4?

(1) 32

(2) 36

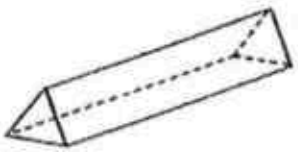
(3) 76

(4) 154

(Go on to the next page)

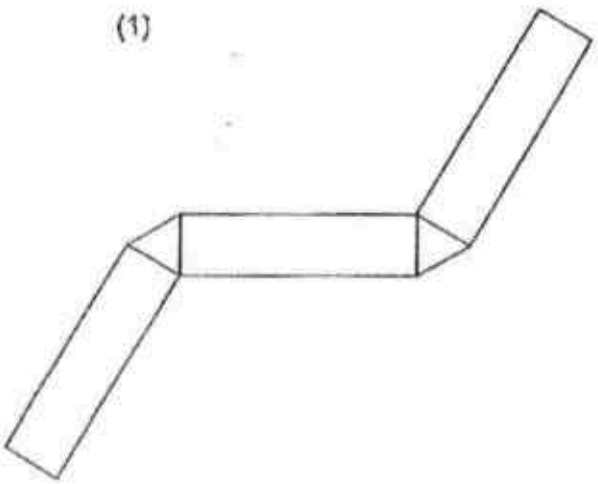
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9. The figure shows a solid.

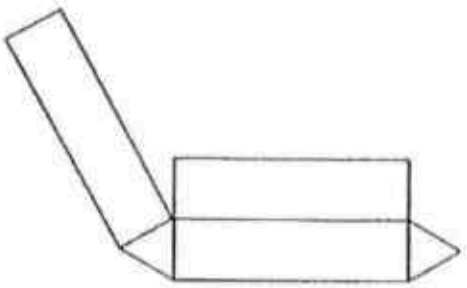


Which one of the following is a net of the solid?

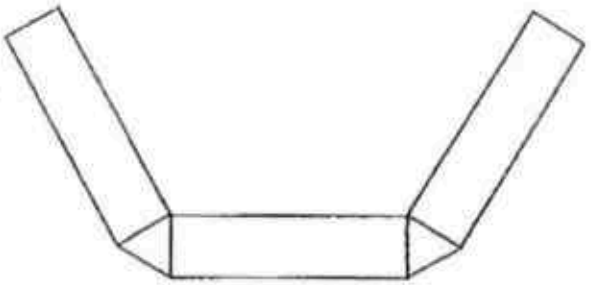
(1)



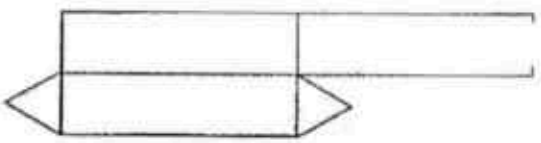
(2)



(3)



(4)



(1)

(Go on to the next page)

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10. Which one of the following fractions is nearest to $\frac{1}{3}$?

(1) $\frac{1}{12}$

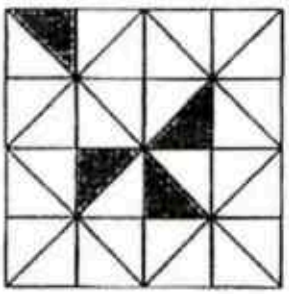
(2) $\frac{1}{2}$

(3) $\frac{1}{6}$

(4) $\frac{1}{4}$

---

11. The figure below is made up of identical triangles.
Four of them are shaded. How many more of such triangles must be shaded so that the ratio of shaded triangles to the unshaded triangles is 3 : 5?



(1) 1

(2) 8

(3) 12

(4) 16

(Go on to the next page)

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12. A group of four boys scored an average of 158 points in a game. When a girl scoring 168 points joins the group of boys, what will be the average points of each child?

(1) 160

(2) 163

(3) 200

(4) 326

---

13. Langdon had some marbles in a bag. He placed $\frac{1}{6}$ of it in a box and gave $\frac{1}{4}$ of it to his sister. He kept the rest of the 196 marbles. How many marbles were there in the bag at first?

(1) 28

(2) 56

(3) 140

(4) 336

---

14. Machine A makes 12 fishballs more than Machine B in every minute. Machine A and Machine B together make a total of 528 fishballs in 3 minutes. How many fishballs does Machine B make in 1 minute?

(1) 82

(2) 86

(3) 164

(4) 172

(Go on to the next page)

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15. A table is filled with numbers in a certain pattern.
The first 4 rows of the table are shown below.

	Column A	Column B	Column C	Column D
Row 1		1	2	3
Row 2	4	5	6	
Row 3		7	8	9
Row 4	10	11	12	
. . .	. . .	. . .	. . .	. . .

In which column will the number 398 appear?

(1) Column A

(2) Column B

(3) Column C

(4) Column D

END OF BOOKLET A

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CATHOLIC HIGH SCHOOL

PRELIMINARY EXAMINATION 2 2015

MATHEMATICS

PRIMARY 6

PAPER 1

(BOOKLET B)

Name : _____( )

Class: Primary 6 _____

Date: 25 August 2015

Total Time for Booklets A and B: 50 min

15 questions

20 marks

Booklet A	
Booklet B	
Total	

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

The use of calculators is **NOT** allowed.

Booklet A and B consist of 15 printed pages.

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Questions **16** to **25** carry **1** mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. **(10 marks)**

Do not write in this space.

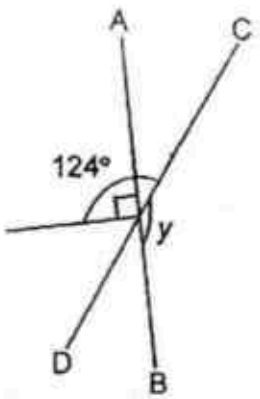
16. Find the value of 0.78×60.

Ans: _____

17. A machine stamps the expiry date on 1950 cans in 20 minutes. How many cans does the machine stamp in 1 hour?

Ans: _____

18. AB and CD are straight lines. Find the value of $\angle y$.



Ans: _____ °

(Go on to the next page)

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19. Kelly baked a pizza and gave $\frac{1}{3}$ of it to her neighbour.
She cut the remaining pizza into 6 equal slices.
What fraction of the whole pizza was each slice?

Do not write in this space.

Ans:_____

20. Caspian gave the cashier a $50 note to pay for a bag. The cashier did not have any coins as small change, so Caspian gave her another 65 cents and received $12 as change. What was the cost of the bag?

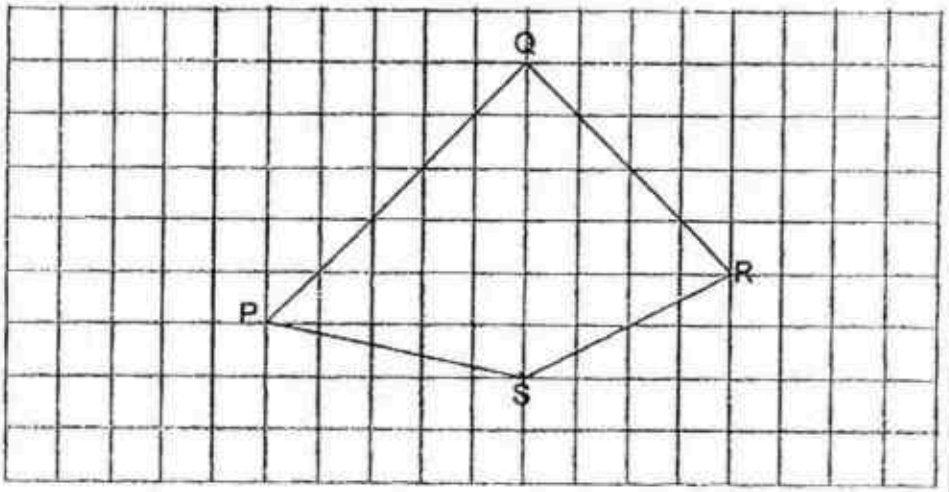
Ans:$_____

(Go on to the next page)

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21. A four-sided figure PQRS is drawn on square grid. Draw a line from point S perpendicular to line PQ.

Do not write in this space.



22. A van travelled from Town A to Town B at an average speed of 80 km/h. The distance between Town A and Town B is 140 km. How long did the van take to travel from Town A to Town B and back to Town A without stopping and change in speed?

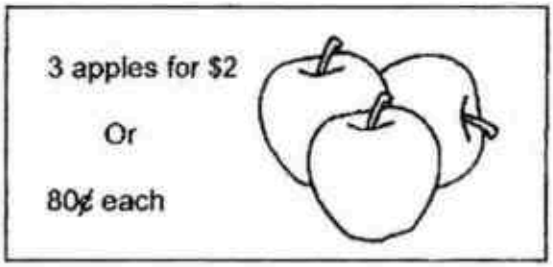
Ans:_____h

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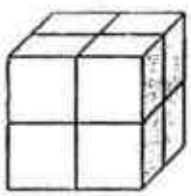
23.



Mary wants to buy some apples to make apple juice.
What is the most number of apples she can buy with $9?

Ans: _____

24. The solid is made up of 8 identical unit cubes. What is the greatest number of unit cubes that can be packed into a box that has twice the length, breadth and height of the solid?

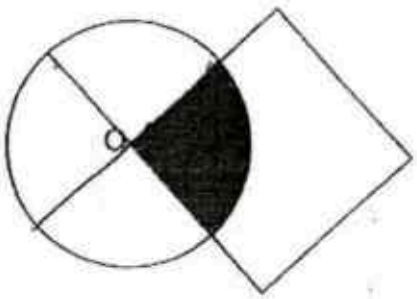


Ans: _____

(Go on to the next page)

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25. The figure is made up of a circle and a square.
One corner of the square lies at the centre of the circle, O.
The ratio of the shaded part of the square to the unshaded part of the square is 2 : 7. Find the ratio of the unshaded part of the square to the unshaded part of the circle.



Ans: _____

Total marks for questions 16 to 25

(Go on to the next page)

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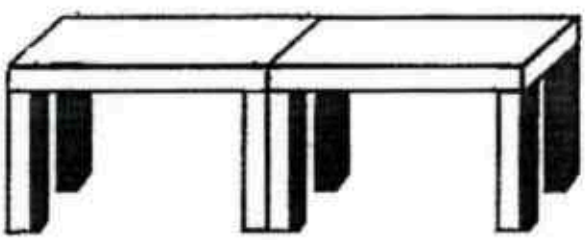
Questions **26** to **30** carry 2 marks each. Show your working and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space

26. Express $\frac{4}{7}$ as a decimal. Round off your answer to 2 decimal places.

Ans: _____

27. The ratio of the length of a tabletop to its breadth is 3 : 2.
A tabletop has a perimeter of 7 m.
What is the perimeter of 2 tabletops placed together as shown?



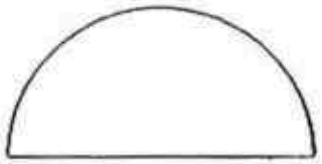
Ans: _____ m

(Go on to the next page)

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28. Find the perimeter of the figure with a radius of 10 cm.
Leave your answer in terms of π.

Do not write in this space.



Ans: _____ cm

29. Lionel gets $3 more than Michael each week. each week
They each spend the same amount of money on food and save the rest.
When Lionel saves $72, Michael saves only $48.
How much money does Michael save each week?

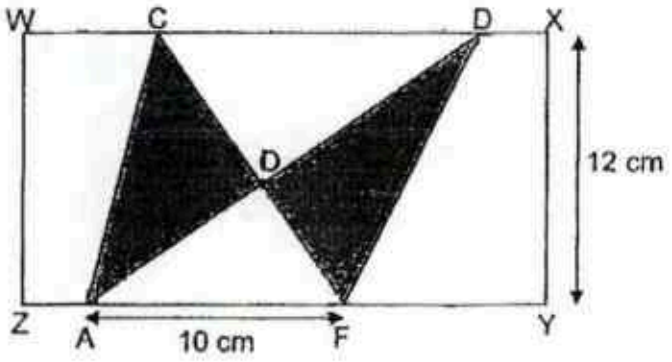
Ans:$_____

(Go on to the next page)

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30. In rectangle WXYZ, ACF and ADF are triangles that overlap to form the unshaded triangle AOF. The total area of the shaded parts is 80 cm^2. AF is 10 cm. Find the area of triangle AOF.

Do not write in this space.



Ans:_____ cm^2

Total marks for questions 26 to 30

END OF BOOKLET B
END OF PAPER 1

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CATHOLIC HIGH SCHOOL

PRELIMINARY EXAMINATION 2 2015

MATHEMATICS

PRIMARY 6

PAPER 2

Name : _____( )

Class: Primary 6 _____

Date: 25 August 2015

Total Time: 1 h 40 min

Parent's Signature: _____

Paper 1 Booklet A	20
Paper 1 Booklet B	20
Paper 2	60
Total Marks	100

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

The use of an approved calculator is expected, where appropriate.

This booklet consists of 16 printed pages.

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Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. (10 marks)

Do not write in this space.

1. Linda, Mary and Nancy are going for a holiday. Each of them has a piece of luggage. The mass of Linda's luggage is p kg. Mary's luggage is 7 kg more than that of Linda's luggage while Nancy's luggage is 5 kg less than that of Linda's luggage
What is the total mass of the 3 pieces of luggage?
Give your answer in terms of p.

Ans: _____ kg

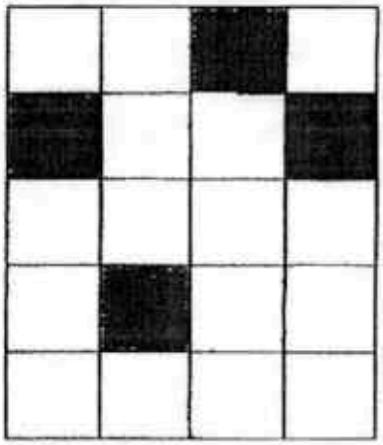
2. In a class of pupils, equal number of boys and girls wear spectacles.
$\frac{2}{3}$ of the boys and $\frac{1}{4}$ of the girls wear spectacles.
What fraction of the pupils wear spectacles?
Give your answer in the simplest form.

Ans: _____

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3. The figure below is made up of identical squares.
Shade 2 squares in the figure to make the figure symmetrical.

Do not write in this space.



4. The ratio of the number of children to adults who participated in a camp is 3 : 2. $\frac{1}{5}$ of the children were boys and there were an equal number of men and women. Find the ratio of the number of girls to women.
Give your answer in the simplest form.

Ans: _____

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5. The pie chart shows the different types of trading cards in a box.
20% of the trading cards are gold cards.
How many bronze cards are there in the box?

Do not write in this space.



Ans: _____

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For questions **6** to **18**, show your working and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question.
All diagrams are not drawn to scale. (50 marks)

Do not write in this space.

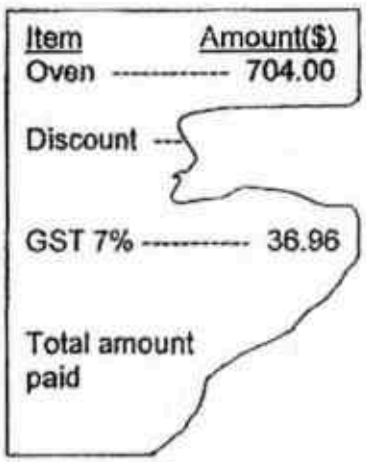
6. Pauline had some money. She spent \$880 on a TV and $\frac{3}{5}$ of the remainder on a DVD player. She had \$168 left.
How much money did she have at first?

Ans: _____ [3]

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7. Mandy bought an oven and the diagram below shows the receipt of the purchase. She had accidentally torn part of the receipt.
The price of the oven before discount was $704.
She paid 7% GST on the discounted price.
What was the discount given for the oven?

Do not write in this space.

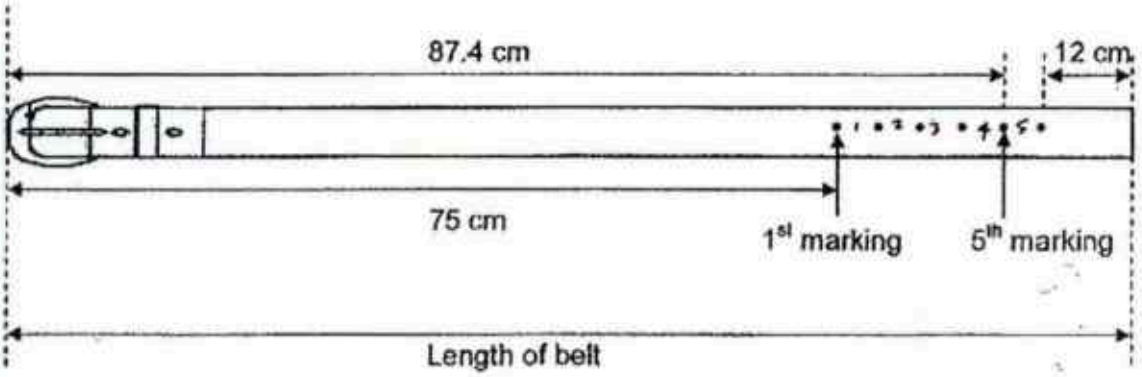


Ans: _____ [3]

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8. The figure shows a belt with six markings on it.
The length between any two consecutive markings is the same.
What is the length of the belt?

Do not write in this space.



Ans: _____ [3]

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9. Ken had 300 stamps. 18% of them were from Japan.
His father gave him some more stamps from Japan.
The percentage of his stamps which were from Japan increased to 40%.
How many stamps did Ken's father give him?

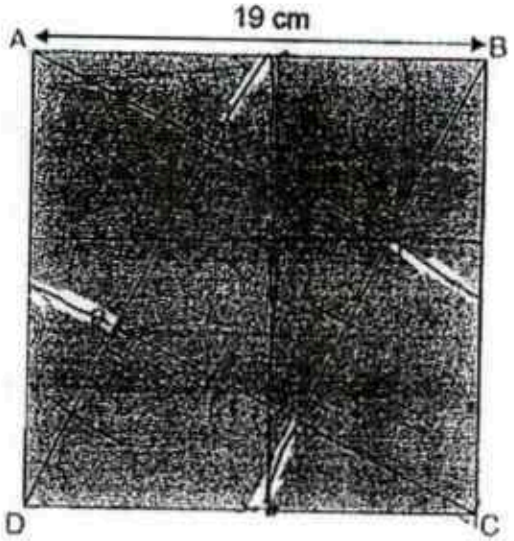
Do not write in this space.

Ans: _____ [3]

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10. A square ABCD of side 19 cm is formed using 4 identical right-angled triangles and a small square OPQR. AO = OP.
Find the length of a side of the small square OPQR, correct to the nearest cm.

Do not write in this space.



Ans: _____ [3]

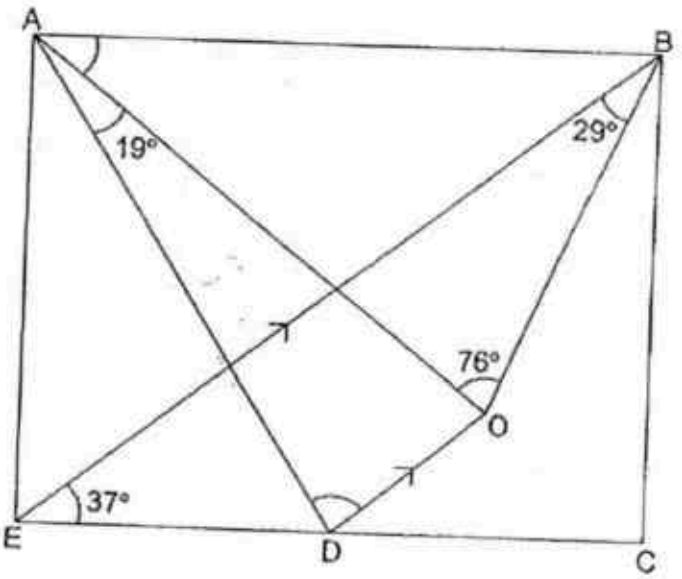
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11. In the figure, ABCE is a rectangle. AOD is a triangle. EB is a straight line and is parallel to DO. $\angle DEB = 37°$, $\angle DAO = 19°$, $\angle EBO = 29°$ and $\angle BOA = 76°$.

Do not write in this space.

(a) Find $\angle OAB$.

(b) Find $\angle ODA$.



Ans: (a)_____ [2]

(b)_____ [2]

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12. At a pastry shop, some sugar was used to bake 26 pies.
The same amount of sugar was used to bake 19 cakes.
Each pie used 70 g less sugar than each cake.
What was the mass of sugar used to bake 26 pies and 19 cakes?
Give your answer in kilograms.

Do not write in this space.

Ans: _____ [4]

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13. At a bakery, Andy bought 12 cupcakes while Ben bought 20 buns.
The price of 3 cupcakes is the same as the price of 4 buns.
Andy, Ben and Carl agreed to share the cost of the cupcakes and buns equally among themselves. Carl paid Andy and Ben a total of $23.40 for his share.

(a) How many cupcakes can Ben buy with the amount of money he spent on the 20 buns?

(b) How much did Carl pay Andy?

Do not write in this space.

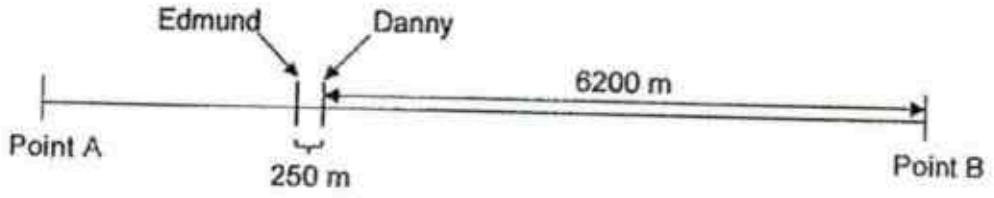
Ans: : (a) _____ [1]

(b) _____ [3]

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14. Danny and Edmund started jogging at the same time along the route from Point A to Point B. Both did not change their speeds throughout the journey. After 20 min, Edmund was 250 m behind Danny.
When Danny completed the remaining distance of 6200 m, Edmund was 750 m from Point B.
What is Edmund's jogging speed in m/min?

Do not write in this space.

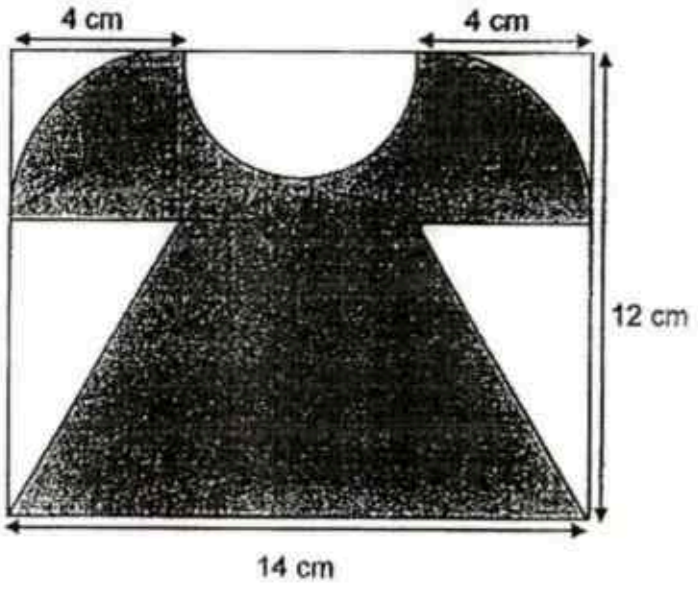


Ans: _____ [4]

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15. Ginny cuts a paper doll blouse out of a rectangular piece of paper as shown below. She uses two identical quarter circles and a semi-circle to help her design the blouse. What is the area of the shaded paper doll blouse? Take $\pi = 3.14$

Do not write in this space.

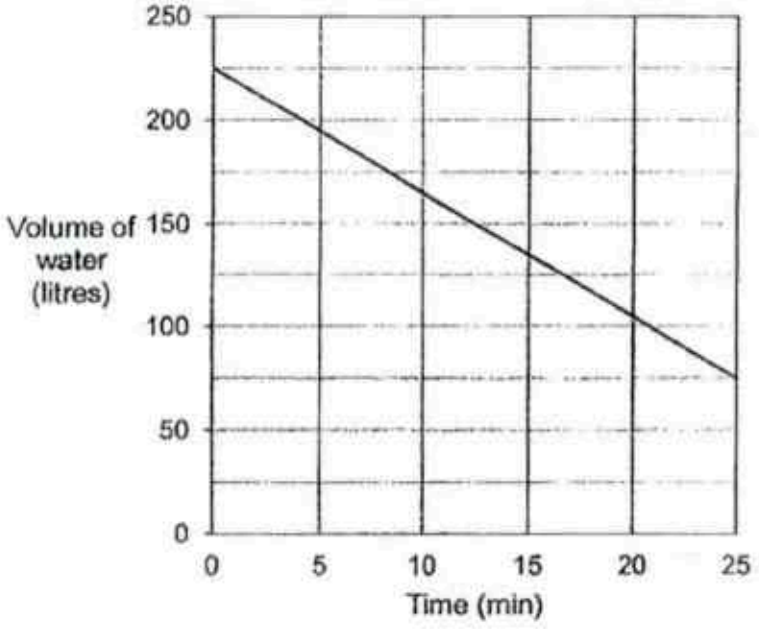


Ans:_____[5]

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16. The line graph shows the volume of water in a tank over 25 min. At first, the tank was completely filled with water. A tap was turned on to allow water to flow out of the tank. It was turned off at the end of 25 min.

Do not write in this space.



(a) How many litres of water flowed out of the tank in one minute?

(b) The tap was turned on a second time to allow water to flow out of the tank at the same rate as before. The tap was turned off when 56.4 litres of water was left in the tank.
How many minutes was the tap turned on the second time?

Ans: (a) _____ [2]

(b) _____ [2]

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17. Figure A shows a closed container standing on its base on a tabletop. It has a square base area of 484 cm^2 and is filled with water to a height of 25 cm. The container is sealed and then turned to rest on its side on the tabletop as shown in Figure B.
What is the new height of the water level from the tabletop?
Give your answer correct to 1 decimal place.

Do not write in this space

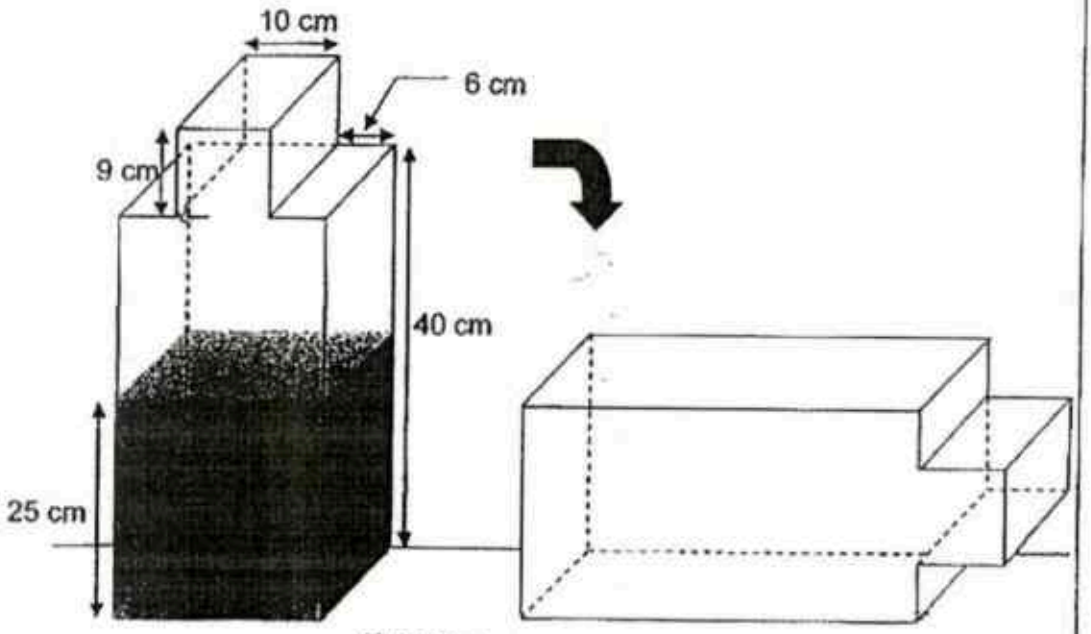


Figure A

Figure B

Ans: _____ [5]

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18. Mrs Lee had the same number of red, green and blue beads at first. After 47 blue beads, some red and green beads were used, there were 75 beads left. There were twice as many red beads as green beads left. The number of blue beads left was 5 fewer than the number of red beads left. How many green beads were used?

Do not write in this space.

Ans: _____ [5]

END OF PAPER.
PLEASE CHECK YOUR WORK CAREFULLY.

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CATHOLIC HIIGH SCHOOL
PRELIMINARY EXAMINATION 2 2015
MATHEMATICS PRIMARY 6
PAPER 1

1) 2	2) 3	3) 1	4) 3	5) 4	6) 2	7) 3	8) 2	9) 1
10) 4	11) 2	12) 1	13) 4	14) 1	15) 3			

16) 46.8

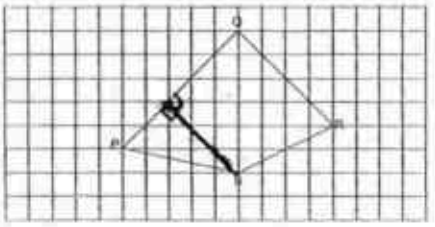
17) 1950/20X60 = 5850

18) 180°-124°+90° = 146°

19) (2/3)/6 = 1/9

20) $50.65-$12 = $38.65

21)



22) 140X2 = 280 km
280/80 = 3.5 h

23) $9/$2 = 4 sets R $1
4x3 = 12
12+1 = 13 apples

24) 4x4x4 = 64 cubes

25) 7 : 6

26) 0.57

27) 10u – 7 m
16u – 16/10x7 = 11.2 m

28) Perimeter = πx10+10+10 = (10π+20) cm

29) $72-$48 = $24
$24/$3 = 8
$48/8 = $6

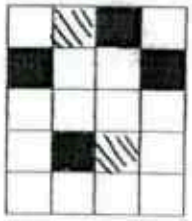
30) 1/2x10x12x2-80 = 40 sq cm
40/2 = 20 sq cm

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PAPER 2

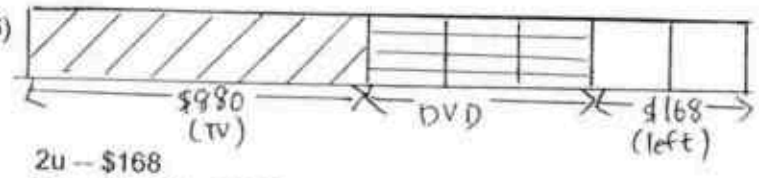
1) p+p+7+p-5 = (3p+2) kg

2) 2/3 of boys = 2/8 of girls
hence 4/11 of the pupils wear spectacles

3) 

4) C : A = 3 : 2 = 15 : 10
B : G = 3 : 12
M : W = 5 : 5
hence, G : W = 12 : 5

5) 100%-25%-20%-40% = 15%
20% -- 60
15% -- 15/20x60 = 45 bronze cards

6) 

2u -- $168
5u -- 5/2x18 = $420
$420+$880 = $1300

7) 7% -- $36.96
100% -- 100/7x36.96 = $528
$704-$528 = $176 (discount)

8) 87.4-75 =12.4
12.4/4 = 3.1
3.1x5 = 15.5
75+15.5+12 = 102.5 cm

9) 18/100x300 = 54
60% -- 300-54 = 246
40% -- 40/60x246 = 164
164-54 = 110 stamps

10) 19 cm x 19 cm = 361 sq cm
361/5 = 72.2 sq cm
√72.2 ≈ 8 cm

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11) Angle ABC = 37°+29° = 66°

a) Angle OAB = 180°-66°-76° = 38°
Angle BOD = 180°-29° = 151°
Angle AOD = 151°-76° = 75°

b) Angle ODA = 180°-19°-75° = 86°

12) 19 C = 26 P
1 C - 1P = 70 g
19 C - 19 P = 1330 g
26 P - 19 P = 1330 g
7 P -- 1330 g
52 P -- 52/7x1330 = 9880 g = 9.88 kg

13) 4 B = 3 C

a) 20 B = 5 x 3 C = 15 cupcakes
12 C = 16 B
20 B + 16 B = 36 B
36 B ÷ 3 = 12 B
12 B -- $ 23.40
16 B - 12 B -- 4 B

b) 4 B -- 4/12X23.40 = $7.80

14) 250 ÷ 20 = 12.5 m/min
750 ÷ 12.5 = 60 min
60 - 20 = 40 min
6200 ÷ 40 = 155 m/min
155 - 12.5 = 142.5 m/min

15) Radius of semi-circle = (14-4-4)÷2 = 3 cm
Area of semi-circle = 0.5x3.14x3x3 = 14.13 sq cm
Area of rectangle = 6x4 = 24 sq cm
Area of shaded region = 24-14.13 = 9.87 sq cm
Area of bigger semi-circle = 0.5x3.14x4x4 = 25.12 sq cm
Area of larger rectangle = 4x(12-4) = 4x8 = 32 sq cm
Area of largest rectangle = (14-4-4)x8 = 6x8 = 48 sq cm
Total shaded area = 9.87+25.12+32+48 = 114.99 sq cm

16) 225*l*-75*l* = 150*l*

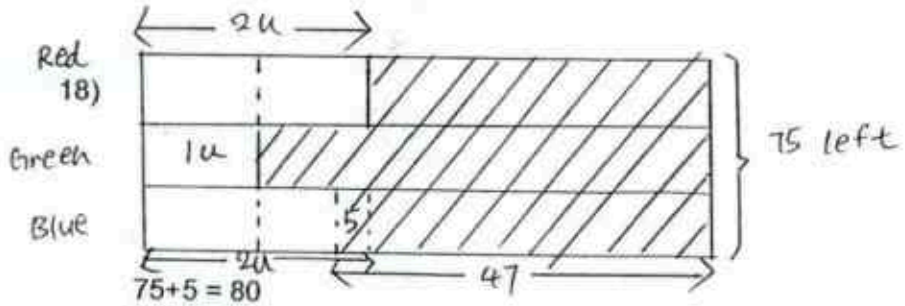
a) 150*l*÷25 = 6*l*
75*l*-56.4*l* = 18.6*l*

b) 18.6*l*÷6*l* = 3.1 min

17) 484x25 = 12100 cubic cm
√484 = 22 cm
40x22x6 = 5280 cubic cm
12100-5280 = 6820 cubic cm
6820÷(49x22) ≈ 6.32
New height = 6+6.3 = 12.3 cm

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18)



75+5 = 80
80÷5 = 16
47-5 = 42
16x2 = 32
42+32 = 74
74-16 = 58 green beads were used

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Index No. | | | | | | – | |

Maha Bodhi School
2015 Preliminary Examination
Primary 6
Mathematics
Paper 1
(Booklet A)

Name : _____ ( )

Class : Primary 6 MA ( )

Date : 14 August 2015

Total Duration for Booklets A and B: 50 min

INSTRUCTIONS TO CANDIDATES:

1. Write your Index No. in the boxes at the top right hand corner.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Shade your answers in the Optical Mark Sheet provided.
6. The use of calculators is **NOT** allowed.

This booklet consists of 6 printed pages.

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Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each.
For each question, four options are given. One of them is the correct answer.
Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Mark Sheet. (20 marks)
All diagrams are not drawn to scale.

---

1. In which one of the following numbers does the digit 8 have the largest value?

   (1) 76 589

   (2) 68 795

   (3) 579 846

   (4) 489 567

2. Express $\frac{5}{6} \div 2$ in its simplest form.

   (1) $\frac{5}{12}$

   (2) $\frac{3}{5}$

   (3) $1\frac{2}{3}$

   (4) $2\frac{2}{5}$

3. How many minutes are there in $3\frac{2}{5}$ h ?

   (1) 184 min

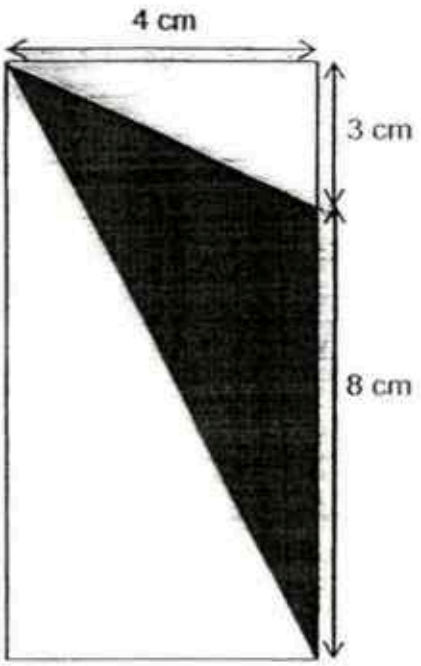
   (2) 204 min

   (3) 220 min

   (4) 340 min

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4. Find the area of the shaded triangle.



(1) 16 cm^2

(2) 22 cm^2

(3) 32 cm^2

(4) 44 cm^2

5. 24 out of 50 pupils like ice cream while the rest of them like milkshake. Find the percentage of pupils who like milkshake.

(1) 24%

(2) 26%

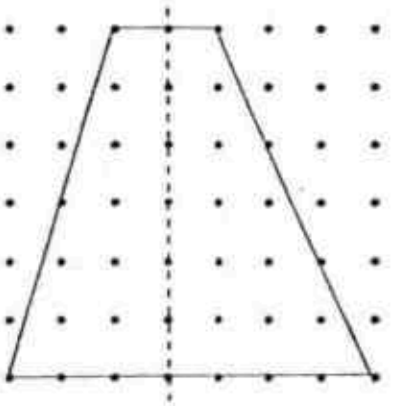
(3) 48%

(4) 52%

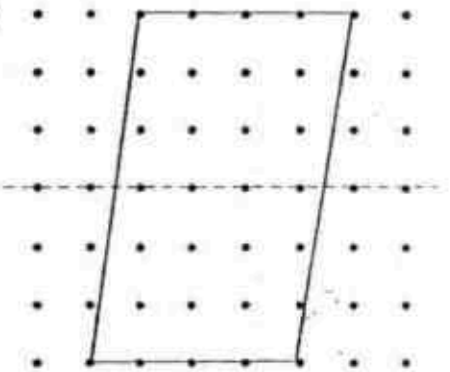
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6. Which one of the dotted lines in the figures below is a line of symmetry?

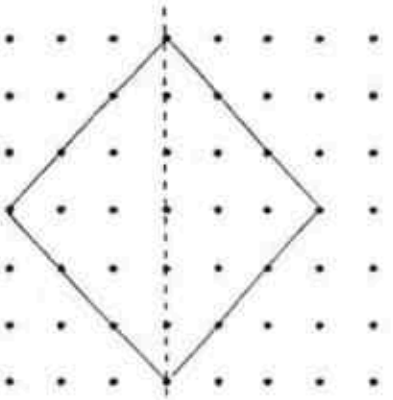
(1)



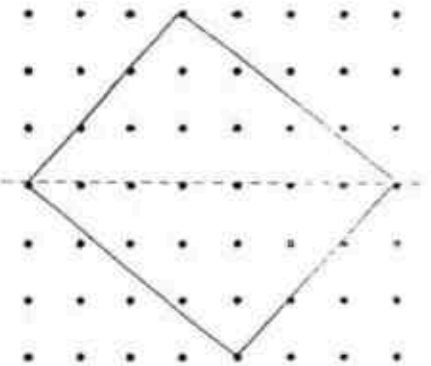
(2)



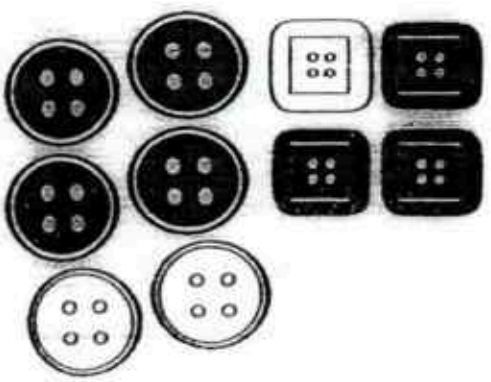
(3)



(4)



7. Square and round buttons are shown below. What is the ratio of the number of black square buttons to the total number of round buttons?



(1) 1 : 2

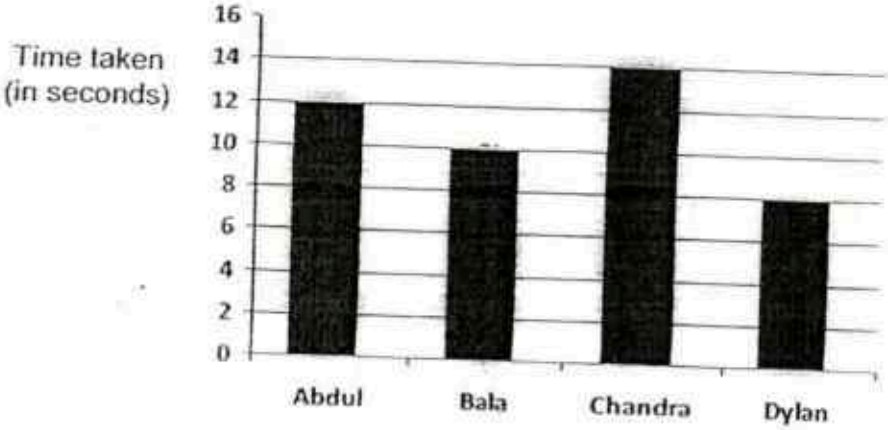
(2) 2 : 3

(3) 3 : 4

(4) 3 : 10

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8. The bar graph below shows the time taken by 4 boys to complete a race.



Which boy finished third in the race?

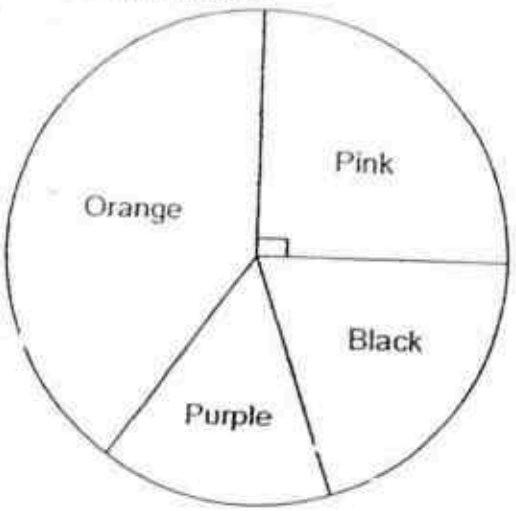
(1) Abdul

(2) Bala

(3) Chandra

(4) Dylan

9. All 36 pupils in Primary 6 Benevolence voted for the colour of their class T-shirt. The result is shown in the pie chart below.



16 pupils opted for Orange. Find the total number of pupils who opted for Black and Purple.

(1) 9

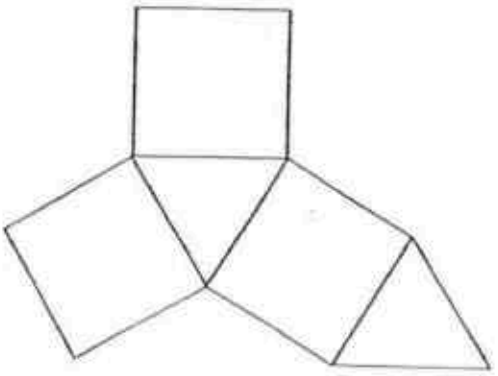
(2) 11

(3) 16

(4) 20

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10. 3 identical squares and 2 identical triangles were used to form the net of a solid as shown below.



4 statements were used to describe it. Which statement is correct?

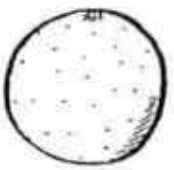
(1) The prism has 5 faces.

(2) This is a net of a pyramid.

(3) The solid figure formed has 10 corners.

(4) A cube can be formed with 3 such solids.

11. To make a fruit salad, Mdm Norah needed to buy the same number of apples and oranges.

	
Apple	Orange
6 for $2	4 for $3

What was the least amount she could have spent?

(1) $12

(2) $13

(3) $24

(4) $26

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12. A motorist travelled at 60 km/h for the first $\frac{1}{6}$ h. Then he travelled at 90 km/h for another $\frac{1}{3}$ h. What was the total distance he travelled?

(1) 28 km

(2) 40 km

(3) 75 km

(4) 150 km

13. Mr Lim bought $\frac{2}{3}$ kg of grapes. He ate $\frac{1}{4}$ of the grapes and gave the remainder equally to his 5 sisters. How many kilograms of grapes did each sister receive?

(1) $\frac{1}{2}$ kg

(2) $\frac{3}{20}$ kg

(3) $\frac{1}{12}$ kg

(4) $\frac{1}{10}$ kg

14. What is the difference between 13 tens and 13 tenths?

(1) 11.7

(2) 12.87

(3) 128.7

(4) 129.87

15. A basin was $\frac{3}{8}$ filled with water. 600 ml of water was added and it became half full. How much water was there in the basin at first?

(1) 375 ml

(2) 450 ml

(3) 1800 ml

(4) 4800 ml

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Index No. [ ][ ][ ][ ][ ][ ]–[ ]

Maha Bodhi School
2015 Preliminary Examination
Primary 6
Mathematics
Paper 1
(Booklet B)

Name : _____ ( ) Marks: 20

Class : Primary 6 MA ( )

Date : 14 August 2015

Total Duration for Booklets A and B: 50 min

INSTRUCTIONS TO CANDIDATES:

1. Write your Index No. in the boxes at the top right hand corner.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Write all your answers in this booklet.
6. The use of calculators is **NOT** allowed.

This booklet consists of 8 printed pages.

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Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided.
For questions which require units, give your answers in the units stated. (10 marks)
All diagrams are not drawn to scale.

16. Express 0.875 as a fraction in its simplest form.

Ans: _____

17. Find the diameter of the coin.



Ans: _____ cm

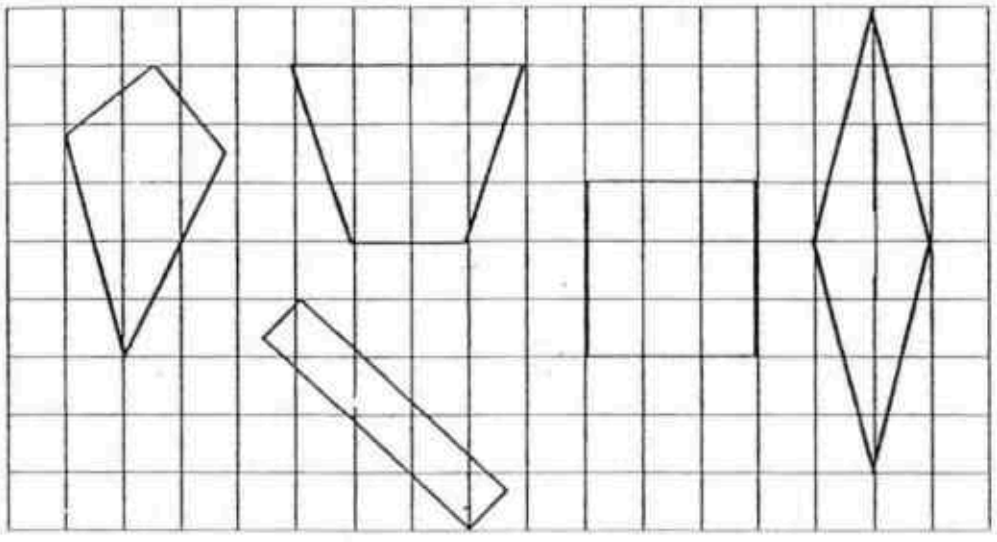
/2

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18. The figure below is a parallelogram.

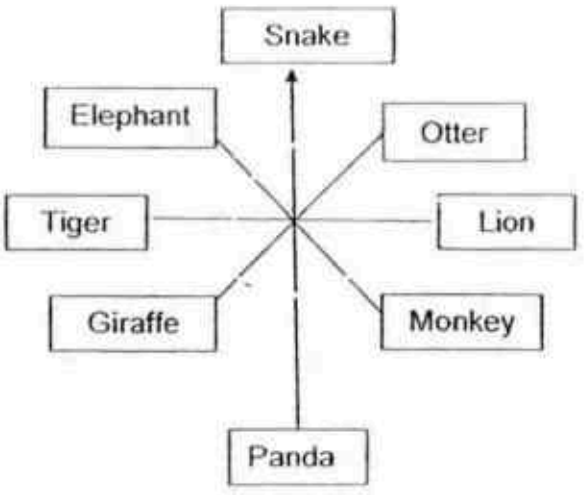


How many of the figures in the box below are also parallelograms?



Ans: _____

19. At the zoo, Ahmad made a half-turn, followed by another 135° to his left to face the lion enclosure.



Which enclosure was Ahmad facing before he made any turn at all?

Ans: _____

12

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20. Simplify $13h + 5 - 4h \times 3$.

Ans : _____

21. Joo has thrice as many stamps as Koon. If Joo has 36 stamps, how many stamps do Joo and Koon have altogether?

Ans: _____ stamps

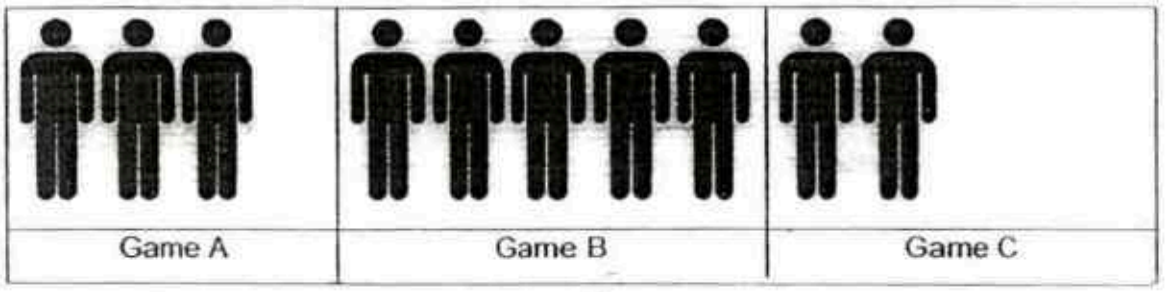
22. A wheel has a radius of 21 cm. What is the distance covered if it makes 10 revolutions? (Take $\pi = \frac{22}{7}$)

Ans: _____ cm

/ 3

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23. The picture graph shows the number of participants who took part in Game A, Game B and Game C at a school carnival. It cost the same amount of money to take part in any of the 3 games.



Each  represents 10 participants

The total amount collected in Game B was $300 more than in Game A. How much money did each participant pay per game?

Ans: $ _____

24. Alison bought some potato chips at $3 per packet. She gave the cashier $50 and received $$y$ change. Express the number of packets of potato chips she bought in terms of y.

Ans: _____ packets

/ 2

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25. Susan was given the same amount of pocket money each day from Monday to Wednesday. She recorded the amount she spent and saved for the 3 days.
The table below shows what she had recorded.

	Spent	Saved
Monday	$2	$3
Tuesday		$0.50
Wednesday	$4	$1

What was the average amount she spent on each of the 3 days?

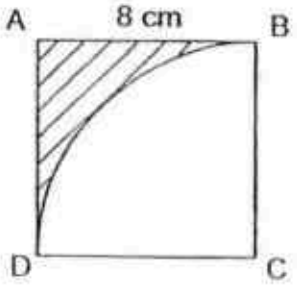
Ans : $ _____

/ 1

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Questions 26 to 30 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided.
For questions which require units, give your answers in the units stated. (10 marks)

26. In the figure below, ABCD is a square. Find the area of the unshaded part.
Leave your answer in terms of π.



Ans: _____ cm^2

27. A carton of milk is shown below. Mrs Tan ordered 24 litres of Baa Goat's milk. As a Baa Goat member, she was given a 10% discount. How much did she pay for her order if a carton of milk cost $18.50?

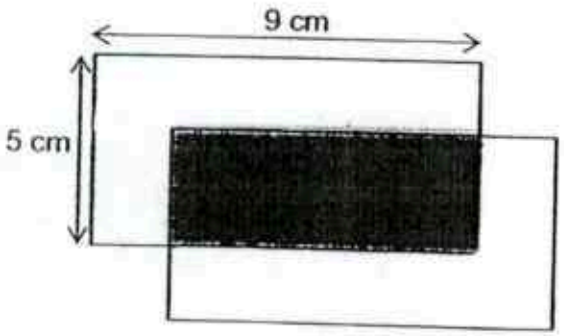


Ans: $ _____

/ 4

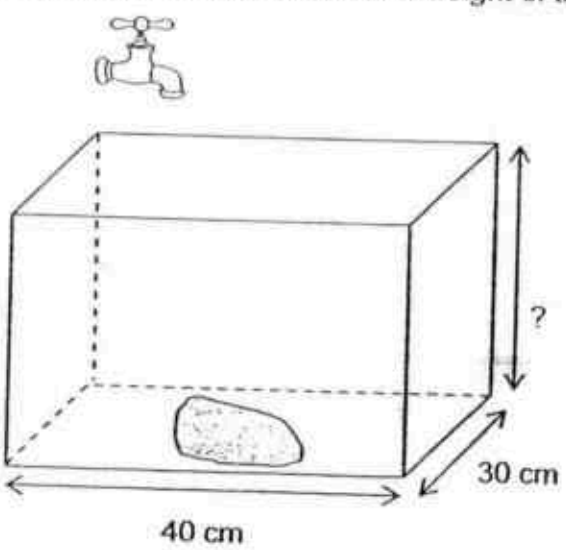
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28. The figure below is made up of 2 identical rectangles. The shaded part is a rectangle measuring 8 cm by 3 cm. What fraction of the figure is shaded?
Express your answer in its simplest form.



Ans: _____

29. A tank contains a rock as shown below. The volume of the rock is 600 cm^3. Water flowed from a tap into the tank at a rate of 3 litres per minute. It took 5 minutes for the tap to completely fill up the tank. What is the height of the tank?

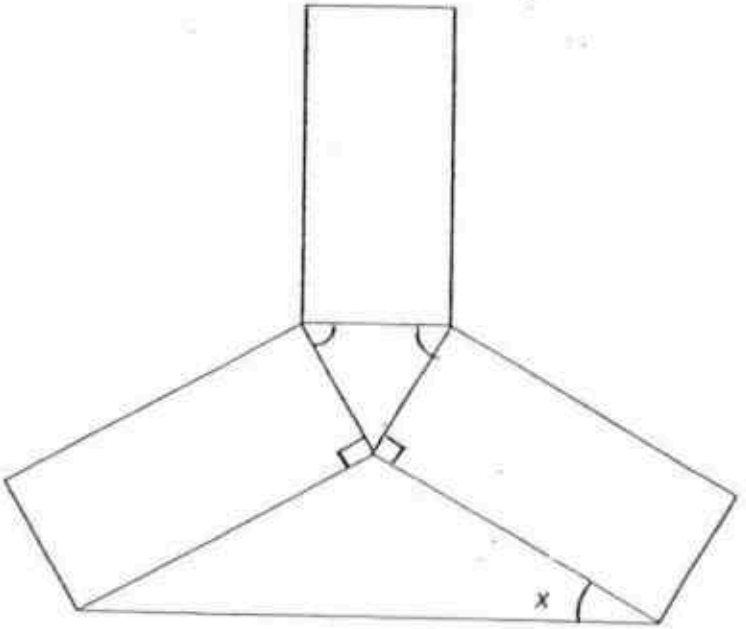


Ans: _____ cm

/ 4

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30. The diagram below is made up of 2 triangles and 3 identical rectangles.



Find $\angle x$.

Ans : _____ °

/ 2

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Index No. | | | | | | – | |

Maha Bodhi School
2015 Preliminary Examination
Primary 6
Mathematics
Paper 2

Name : _____ ( )

Class : Primary 6 MA ( )

Date : 14 August 2015

Duration: 1 h 40 min

INSTRUCTIONS TO CANDIDATES:

1. Write your Index No. in the boxes at the top right hand corner.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Write your answers in this booklet.
6. The use of an approved calculator is expected, where appropriate.

Paper	Booklet	Marks Obtained	Max Marks
1	A		20
	B		20
2	-		60
Total			**100**

Parent's signature: _____

This booklet consists of 15 printed pages.

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Questions **1** to **5** carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided.
For questions which require units, give your answers in the units stated. (10 marks)

1. Jerry and Cindy shares $(3x – 5). Jerry gets $x more than Cindy.
   How much does Cindy get if $x = 6$?

   Ans: $ _____

2. The ratio of the number of members in Club M to that of Club N is 2 : 3.
   The number of members in Club P is twice that of Club M and there are 20 more members in Club P than in Club N.
   How many members are there in Club P?

   Ans: _____ members

3. For every 3 stamps Jiahui gave to Ryan, he would always give 1 back to her.
   At first, Ryan had 10 stamps more than Jiahui.
   Find the difference between the number of stamps they had in the end after Jiahui had given 12 stamps to Ryan.

   Ans: _____ stamps

/6

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4. A piece of wire, forming 2 identical semi-circles as shown in Figure 1, was straightened and bent into a square as shown in Figure 2. Find the area of the square, giving your answer to 2 decimal places. (Take $\pi = 3.14$)

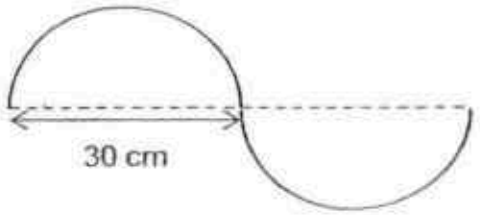


Figure 1

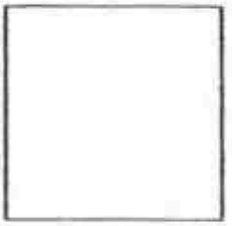
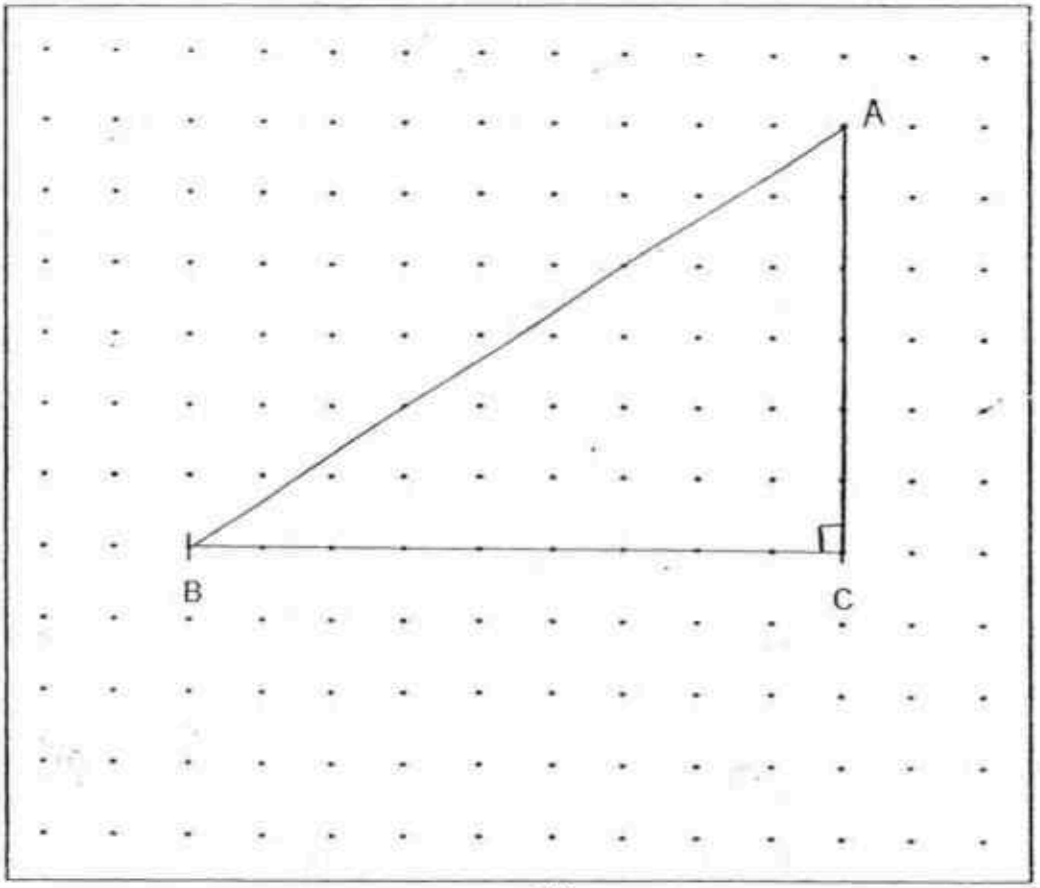


Figure 2

Ans : _____ cm^2

5. Using only the dots provided in the space below, construct Triangle ABC such that BC = 3 units, AC = 2 units and $\angle ACB = 90^\circ$.
The line BC has been drawn for you.

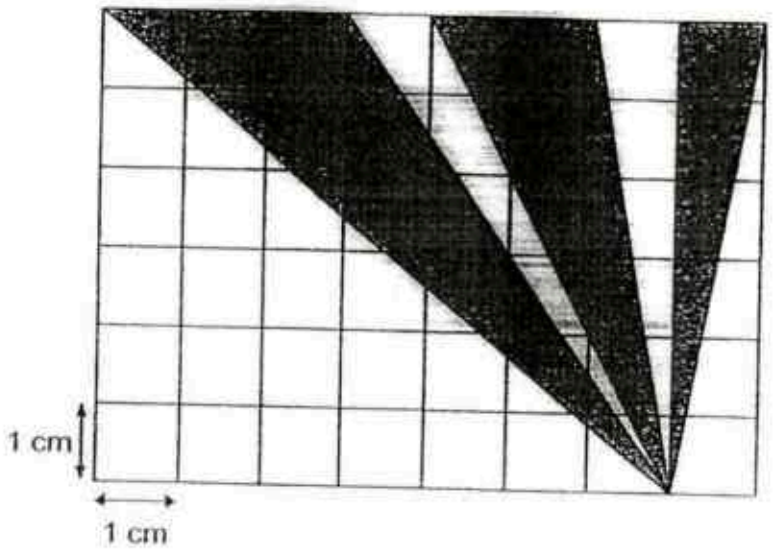


/4

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For questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (50 marks)

6. Find the area of the shaded parts.

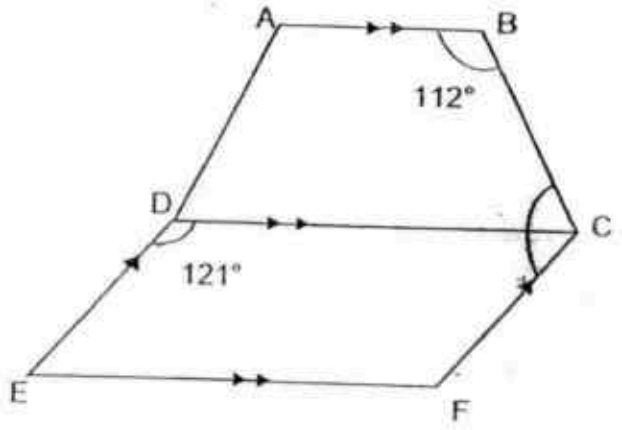


Ans: _____ [3]

[3]

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7. The figure below is not drawn to scale. ABCD is a trapezium and CDEF is a parallelogram. Find $\angle BCF$.



Ans: _____ [3]

/3

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8. A rectangular tank measures 75 cm by 51 cm by 30 cm. It is filled with water to a height of 15 cm. Rashid wants to fill the tank with water to the brim by pouring water from a completely filled 15-cm cubical container. If each time he pours water from the completely filled cubical container to the tank, what is the least number of times he had to pour to fill the tank to the brim?

Ans: _____ [4]

/ 4

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9. A crate that was $\frac{1}{2}$ filled with cups was 6.9 kg. It was 1.8 kg heavier than the same crate that was $\frac{1}{3}$ filled with the same kind of cups.

(a) What was the mass of the empty crate?

(b) What was the mass of a full crate of cups?

Ans: (a) _____ [3]

(b) _____ [1]

/4

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10. There were 180 girls and 150 boys in the Arts Theatre and 210 girls and 560 boys in the School Hall at first. After some boys and girls moved from the School Hall to the Arts Theatre, there were an equal number of boys and girls in the Arts Theatre and thrice as many boys as girls in the School Hall.

How many boys and how many girls were moved from the School Hall to the Arts Theatre?

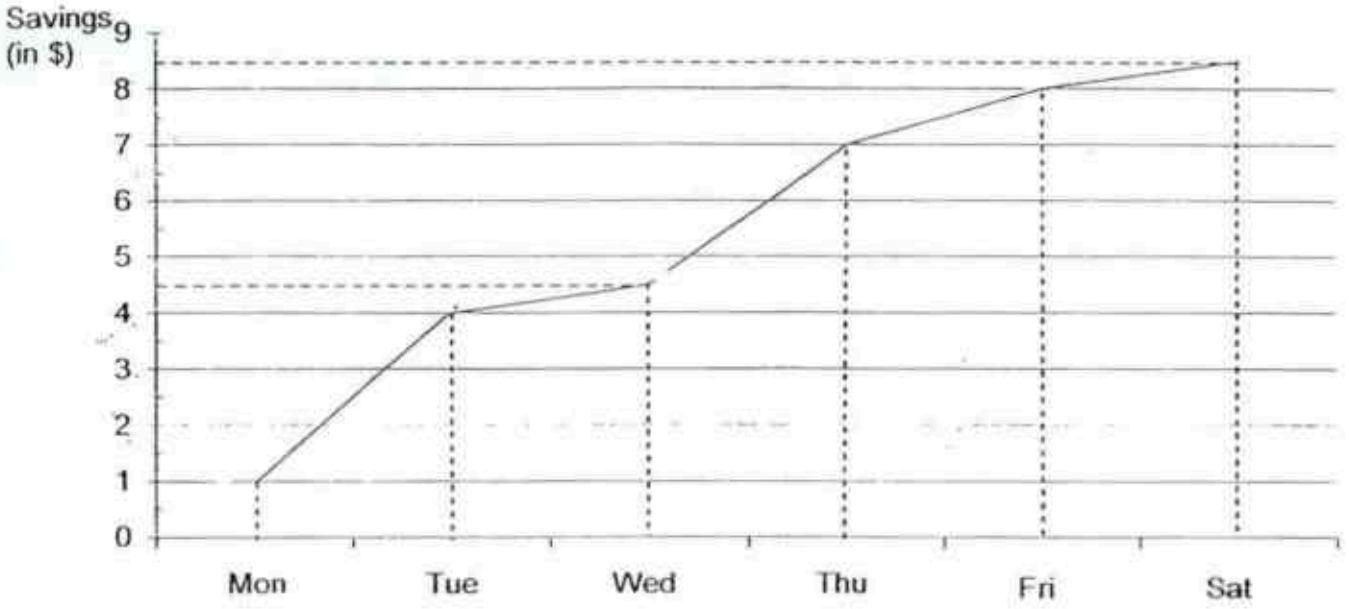
Ans: Boys _____

Girls : _____ [4]

/ 4

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11. Fatimah was given $5 pocket money every day. The line graph below shows the total amount of savings she had at the end of each day for a particular week.



(a) How much did Fatimah spend on Monday?

(b) On which two days did Fatimah save the same amount of money?

(c) What was the average amount she saved from Tuesday to Saturday?

Ans: (a) _____ [1]

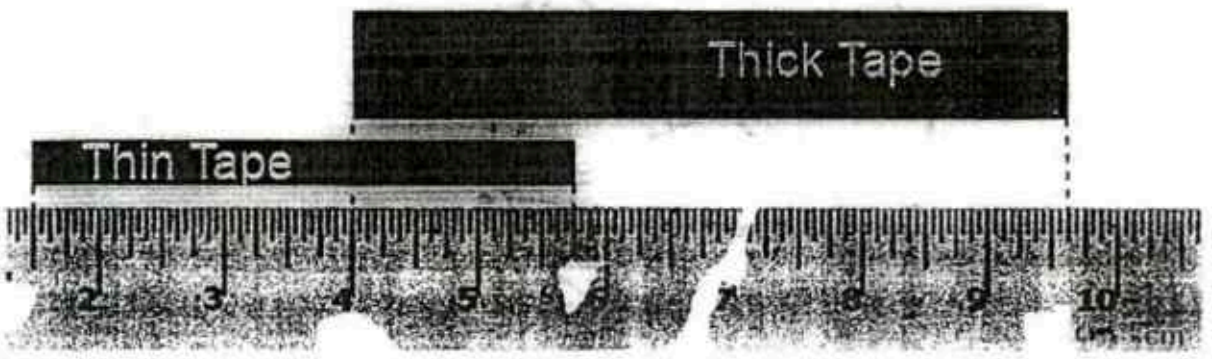
(b) _____ [1]

(c) _____ [2]

/4

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12. Weibin has 2 pieces of tape with the length as shown below.



(a) Write down the length of the thick tape.

(b) Express, as a decimal, the difference between their lengths, correct to 2 decimal places.

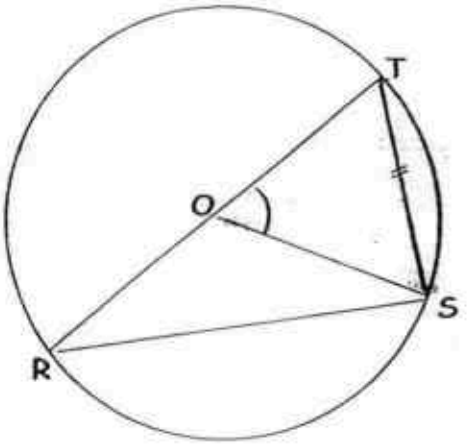
Ans: (a) _____ [1]

(b) _____ [2]

/3

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13. In the figure shown below, O is the centre of the circle. OS = ST and ROT is a straight line.



(a) Find ∠TOS.

(b) Find ∠TRS.

Ans: (a) _____ [1]

(b) _____ [2]

/ 3

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14. Bob and Dylan started cycling from the same place and at the same time but in opposite directions along a straight path. After cycling for 45 min, they were 20 km apart. Bob cycled at an average speed of 12 km/h. What was Dylan's average cycling speed?
Express your answer as a mixed number in the simplest form.

Ans : _____ [3]

/3

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15. A farmer had some geese and ducks.

If he bought another 40 ducks, the ratio of the number of ducks to the number of geese would become 5 : 6.

If he bought another 60 geese instead, then the ratio of the number of ducks to the number of geese would become 2 : 3.

How many more geese than ducks did the farmer have?

Ans : _____ [4]

/ 4

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16. Three children, Sally, Lynn and Penny have different amounts of money.
The amount of money Lynn has is the total of Sally and Penny's amount.
The amount of money Penny has is the total of Sally's amount and half of Lynn's amount.
Sally has $14.

(a) How much does Lynn have?

(b) How much do these three children have altogether?

Ans : (a) _____ [2]

(b) _____ [3]

/5

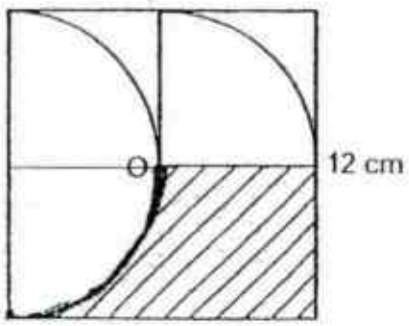
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17. The figure below shows a quadrant and a semicircle enclosed within a square. O is the centre of the square. The square has a length of 12 cm.

(a) Find the area of the shaded part.

(b) Find the perimeter of the shaded part.

(Take $\pi = 3.14$)



Ans : (a) _____ [3]

(b) _____ [2]

/5

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18. Martin withdrew 33% of his savings from the bank. He spent $548 on a mobile phone and the remaining $46 on some phone accessories. After receiving his salary, he deposited 25% of it into the bank. As a result, he had $3480 in the bank. What was Martin's salary?

Ans: _____ [5]

/5



Remember to check your work! Every mark counts.

–End of Paper –

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EXAM PAPER 2015
LEVEL : PRIMARY 6
SCHOOL : MAHA BODHI SCHOOL
SUBJECT* : *MATHS
TERM : PRELIMINARY EXAMINATION

PAPER ONE

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	1	2	1	4	3	1	1	2	1
Q11	Q12	Q13	Q14	Q15					
2	2	4	3	3					

Q16. $\frac{7}{8}$ → $0.875 = \frac{875}{1000} = \frac{175}{200} = \frac{7}{8}$ Q17. 3.6cm Q18. 3

Q19. Otter.

Q20. (h + 5) → 13h + 5 -4h x 3, 13h +5 – 12h, h + 5

Q21. 48 stamps → 36 + 12 = 48

Q22 1320cm → $\frac{22}{7}$ x 42 = 22 x 6 = 110 + 22 = 132, 132 x 10 = 1320

Q23. $15

Q24. ($\frac{50-4}{3}$) packets. → $50-y \div 3 = \frac{50-y}{3}$

Q25. $3.50 → $2 +$4 +$4.50 = $10.50, $10.50 ÷ 3 = $3.50

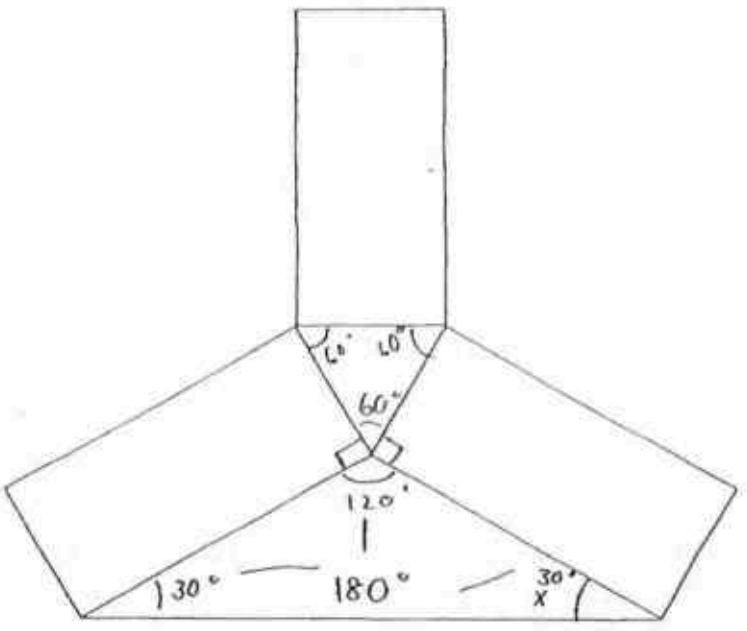
Q26. (16π) → 8 x 8 = 64, π x 8 x 8 = 64π, 64π ÷ 4 = 16π.

Q27. $33.30 → 18.50 x 2 = 37, 37÷10 = 3.7, 37÷10 = 3.7, 37-3.7=33.3

Q28. $\frac{4}{11}$ → $\frac{24}{66}$ $\frac{12}{33}$ $\frac{4}{11}$

Q29. 13cm → 3000 x 5 = 15000, 15600 ÷ (40 x 30) = 13

Q30. 30°. SEE PICTURE



PAPER 2

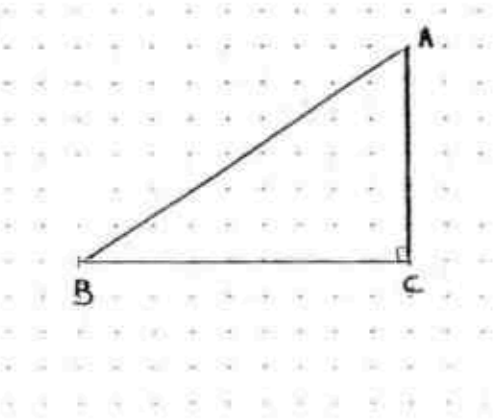
Q1. $3.50 → 3 x 6 = 18, 18-5=13, 13-6 = 7, 7÷3 = 3.5

Q2. 80 members → 2 x 2 =4, 1 unit = 20, 4 units = 80

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Q3. 26 → 12 ÷ 3 = 4 , 12-4=8, 8 + 8 + 10 = 26
Q4. 554.60cm³ → 3.14 x 30 = 94.2, 94.2÷4 = 23.55, 23.55 x 23.50 = 554.6025, ≈ 554.60
Q5. SEE PICTURE



Q6. 18cm² → $\frac{1}{2}$ x 3 x 6 = 9, $\frac{1}{2}$ x 2 x 6 = 6 , $\frac{1}{2}$ x 1 6 = 3, 9 + 6 + 3 = 18
Q7. 127° → $\angle DCF = 180° - 121° = 59°$, $\angle BCD$ 180° − 112° = 68°, $\angle BCF = 68° + 59° = 127°$, $\angle BCF$ is 127°

Q8. 17 times → 75 x 51 x 15 = 57375, 15 x 15 x 15 = 3375, 75 x 51 x 30 = 114750, 114750 − 57375 = 57375, 57375 ÷ 3375 = 17
Q9a. 1.5kg → $\frac{1}{2} = \frac{3}{6}$, $\frac{1}{3} = \frac{2}{6}$, 1.8 x 3 = 5.4, 6.9 − 5.4 = 1.5.
Q9b. 12.3kg → 1.8 x 6 = 10.8, 10.8 + 1.5 = 12.3

Q10. Boys: 80 Girls : 50

At first		After		Moved from school hall to arts theatre	
Girls	Boys	Girls	Boys	Girls	Boys
180	150	200	200	20	50
180	150	220	220	40	70
180	150	240	240	60	90
180	150	230	230	50	80

Q11a. $4 → 5 − 1 = 4
Q11b. Monday and Friday
Q11c. $1.50 → 3 + 0.5 + 2.5 + 1 +0.5 = 7.5, 7.5 ÷ 5 = 1.5.

Q12a. 5.625cm → 9.625 − 4 = 5.625
Q12b. 1.38cm → 5.75 − 1.5 = 4.25, 5.625 − 4.25 = 1.375 = 1.38

Q13a. 60° → $\angle TOS = 180° \div 3 = 60°$
Q13b. 30° → $\angle TRS = 180° - 120° \div 2 = 30°$

Q14. $14\frac{2}{3}$km/h → 12÷60 x 45 = 9, 20-9=11, 11÷45x60 = $14\frac{2}{3}$

Q15. 120 → 40 x 2 = 80, 80 x 5 = 400, 400-40=360, 360÷2 x 3 = 540, 540-60=480, 480 -360=120.

Q16a. $56 → 14 x 3 = 42, 42 + 14 = 56.
Q16b. $112 → 14 + 56 + 42 = 112

Q17a. 43.74cm² → 12 x 12 = 144, 144÷2 = 72, 3.14 x (12÷2) x (12÷2) = 113.04, 113.04 ÷4 = 28.26, 72-28.26=43.74.
Q17b. 33.42cm → 3.14 x 12 = 37.68, 37.68 ÷4 = 9.42, 9.42 +6+6+12=33.42.

Q18. $9096 → 548 + 46 = 594, 594 ÷ 33 x (100- 33) = 1206, 3480-1206 = 2274, 2274 x 4 = 9096.

THE END

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Temasek Primary School

PSLE Preliminary Examination

Primary Six

2015

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MATHEMATICS

PAPER 1

(BOOKLET A)

Name : _____ ( )

Class : Primary 6 _____

Date : 25th August 2015

Parent's Signature: _____

Total Time for Booklets A & B: 50 min

Instructions to Candidates:

1. Write your name, class and register number in the spaces provided clearly.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Shade your answers in the Optical Answer Sheet (OAS) provided.
6. You are **NOT** allowed to use a calculator.

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Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, 4 options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet. You are **not** allowed to use a calculator.

(20 marks)

---

1. Round off 819 572 to the nearest hundreds.

   (1) 819 500
   (2) 819 570
   (3) 819 580
   (4) 819 600

2. Express 4 hundreds, 5 ones and 19 thousandths as a decimal.

   (1) 45.019
   (2) 45.19
   (3) 405.019
   (4) 450.19

3. A movie started at 22 50 and ended 2 hours later. At what time did the movie end?

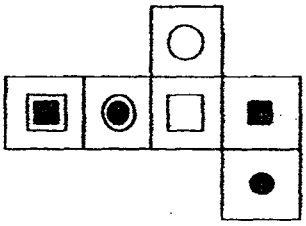
   (1) 00 50
   (2) 01 50
   (3) 19 50
   (4) 20 50

4. Kimberly bought a bag at a discount of 20%. If the original price of the bag was $150, how much did Kimberly pay?

   (1) $30
   (2) $120
   (3) $130
   (4) $180

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5. The figure below shows a net of a cube.



When the net is folded to form the cube, which face is directly opposite to ● ?

(1) ○
(2) □
(3) ◉
(4) ■

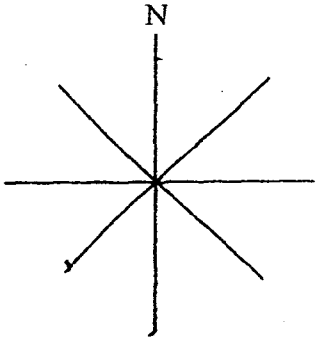
6. Given that the radius of the circle is 14 cm, find its area. (Take $\pi = \frac{22}{7}$)

(1) 28 cm^2
(2) 44 cm^2
(3) 88 cm^2
(4) 616 cm^2

7. Find the ratio of 400 g to 2 kg.

(1) 1 : 5
(2) 2 : 1
(3) 5 : 1
(4) 200 : 1

8. Vignesh turned 135° clockwise and found himself facing North. In which direction was he facing before he made the turn?



(1) North-East
(2) North-West
(3) South-East
(4) South-West

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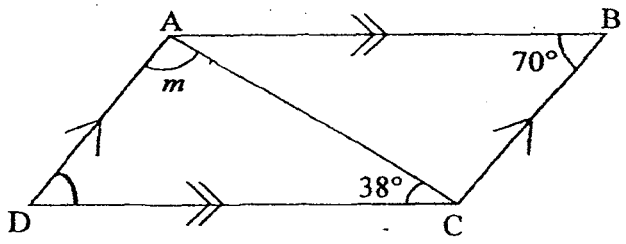
9. Express $\frac{3}{4}$ as a percentage.

(1) 0.75%
(2) 12%
(3) 75%
(4) 133.33%

10. Alicia has \$200. She has \$y more than her sister. How much do both of them have altogether?

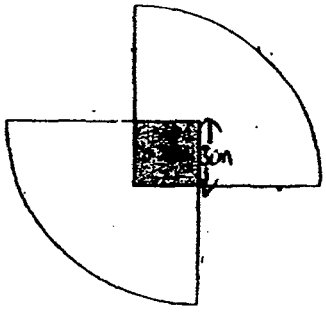
(1) \$(400 + y)
(2) \$(400 – y)
(3) \$(y – 400)
(4) \$400y

11. The figure shown below is not drawn to scale. AB // CD and AD // BC. Find $\angle m$.



(1) 32°
(2) 38°
(3) 70°
(4) 72°

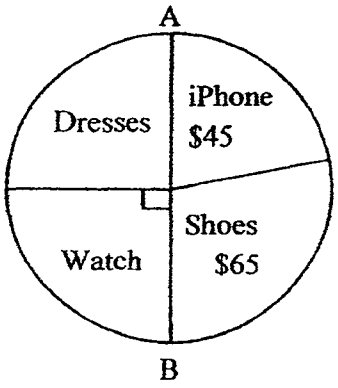
12. The figure below (not drawn to scale) is made up of 2 similar quadrants of radius 7 cm. The length of the shaded square is 3 cm. What is the perimeter of the whole figure? (Take $\pi = \frac{22}{7}$)



(1) 22 cm
(2) 38 cm
(3) 44 cm
(4) 50 cm

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13. The pie chart below shows the items Su Min bought last Sunday.



AB is a straight line. If Su Min bought 2 similar dresses last Sunday, what was the cost of each dress?

(1) $ 27.50
(2) $ 55.00
(3) $ 90.00
(4) $110.00

14. 5 painters took 4 days to complete painting 3 houses. How many days would it take 10 painters to paint 12 houses?

(1) 6
(2) 8
(3) 16
(4) 24

15. Ahmad drove a distance of 60 km in 45 minutes. He returned by the same route but he increased his speed by 50%. What was the total time spent on the two-way journey?

1) 30 minutes
2) 60 minutes
3) 75 minutes
4) 90 minutes

----- End of Booklet A -----

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Temasek Primary School

PSLE Preliminary Examination

Primary Six

2015

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MATHEMATICS

PAPER 1

(BOOKLET B)

Name : _____ ( )

Class : Primary 6 _____

Date : 25th August 2015

Parent's Signature: _____

Total Time for Booklets A & B: 50 min

20

Instructions to Candidates:

1. Write your name, class and register number in the spaces provided clearly.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Write your answers in this booklet.
6. You are **NOT** allowed to use a calculator.

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Questions 16 to 25 carry 1 mark each. Write your answer in the spaces provided. For questions which require units, give your answers in the units stated. You are **not** allowed to use a calculator.

(10 marks)

---

16. Find the value of $\frac{2}{15} \div 4$.

Give your answer in the simplest form.

Answer: _____

---

17. Find the value of $100 - 11 \times 8 \div 4$.

Answer: _____

---

18. Write the biggest whole number which when rounded off to the nearest thousand gives 4 000.

Answer: _____

---

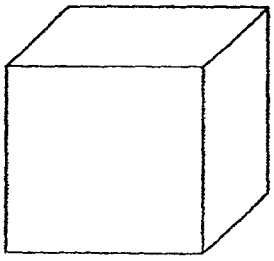
19. Express \$1.20 as a fraction of \$3.

Give your answer in the simplest form.

Answer: _____

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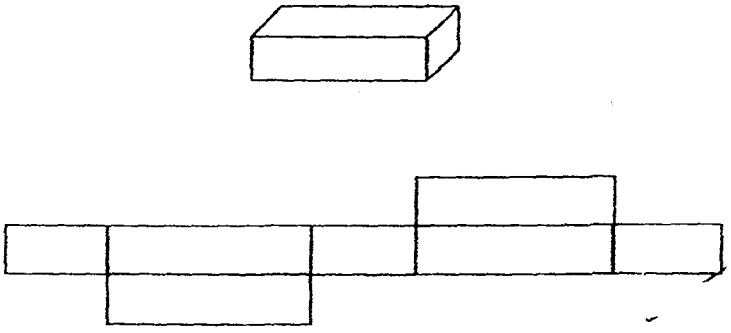
20. The cube below, not drawn to scale, has a length of 7 cm. What is its volume?



Answer: _____ cm^3

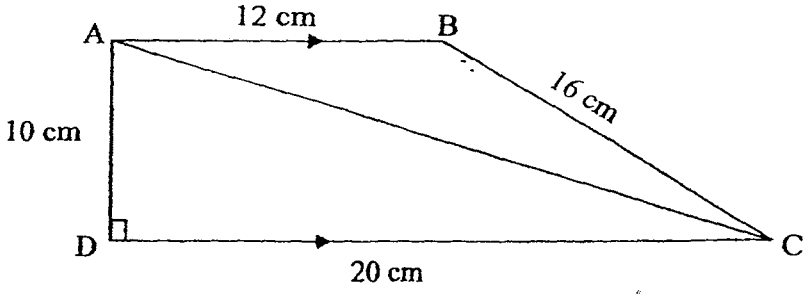
---

21. The figure below is not a net of the given solid because it has one extra face. Identify this extra face and put a cross (×) on it.



---

22. The figure below is not drawn to scale. ABCD is a trapezium. Find the area of triangle ABC.



Answer: _____ cm^2

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23. A butter cake recipe requires 250 g of butter to make one cake. How much butter must Daisy buy if she wants to make 5 such butter cakes?

Answer: _____ kg

---

24. Mr Wee has a sack of flour. He sold 40% of it and repacked the rest into 8 small packets. What percentage of the sack of flour is each small packet of flour?

Answer: _____ %

---

25. Find the value of $\frac{8a-15}{a}$ when $a = 5$.

Answer: _____

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Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

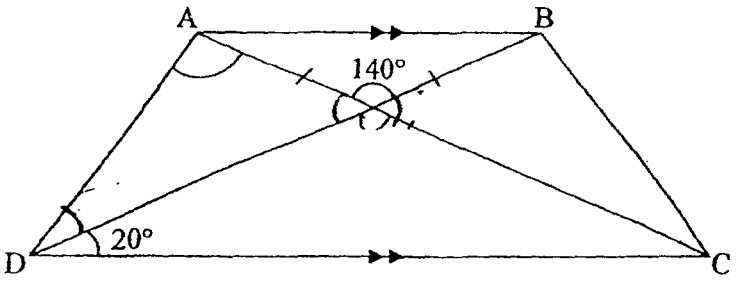
---

26. The average mass of Bags A, B and C is 24 kg. Bag A is 6 kg heavier than Bag B. Bags B and C are of the same mass. Find the mass of Bag A.

Answer: _____ kg

---

27. The figure below is not drawn to scale. ABCD is a trapezium and $\angle BDC = \angle ADB$. Find $\angle CAD$.



Answer: _____ °

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28. Mrs Siti has 210 red, blue and yellow buttons. $\frac{1}{2}$ of her red buttons is equal to $\frac{1}{3}$ of her blue buttons while $\frac{1}{4}$ of her blue buttons is equal to $\frac{1}{5}$ of her yellow buttons. How many yellow buttons does Mrs Siti have?

Answer: _____

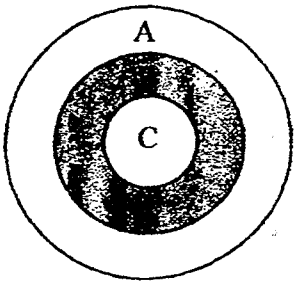
29. The table below shows the number of families with different numbers of children in a housing estate. If there is a total of 270 children, how many families are there with 3 children each?

No. of children	0	1	2	3	4
No. of families	12	55	40	?	15

Answer: _____

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30. Regions A, B and C represent the number of points assigned to the three target areas as shown below. The total points in Regions A and B, B and C, and A and C are 11, 19 and 16 respectively. How many points is assigned to region A?



Answer: _____

----- End of Paper 1 -----

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Temasek Primary School

PSLE Preliminary Examination

Primary Six

2015

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MATHEMATICS

PAPER 2

Name : _____ ( )

Class : Primary 6 _____

Date : 25th August 2015

Parent's Signature: _____

Time : 1 h 40 min

Instructions to Candidates:

1. Write your name, class and register number in the spaces provided clearly.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Write your answers in this booklet.
6. You are allowed to use a calculator.

Paper	Marks	Scores
Paper 1 (Booklet A)	**20**	
Paper 1 (Booklet B)	**20**	
Paper 2	**60**	
Total	**100**	

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Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. You are allowed to use a calculator.

(10 marks)

---

1. Ali bought y stamps. He gave away 11 of them. Siti gave him 20 stamps. Ali then put all his stamps equally into 8 small boxes. How many stamps were there in each box? (Give your answer in terms of y.)

Answer: _____

---

2. Ivy has some almond, butter and chocolate cookies. $\frac{2}{7}$ of her cookies are almond cookies, $\frac{2}{5}$ of the remainder are butter cookies and the rest are chocolate cookies. If she has 60 chocolate cookies, how many cookies does she have altogether?

Answer: _____

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3. The ratio of Steven's age to Cindy's age is 3 : 2. The ratio of Richard's age to Cindy's age is 2 : 5. If Steven is 33 years older than Richard, what is the total age of the three people?

Answer: _____ years

---

4. The mass of a box completely filled with sand is 9 kg. If $\frac{1}{3}$ of the sand is poured out, the mass of the box and the remaining sand is 6.1 kg. What is the mass of the empty box?

Answer: _____ kg

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5. Sally and her mother are travelling to Rome for a holiday. Sally found that when it is 08 40 in Singapore, it is 02 40 in Rome on the same day. If the planes leaves Changi Airport at 09 45 and the flight takes 12 hours and 50 minutes, what time is it in Rome when the plane lands?

Answer: _____

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For questions 6 to 18, show your workings clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question.

(50 marks)

---

6. The average of 6 numbers is 55. When a 7^{th} number is added, the average of the 7 numbers becomes 64. What is the 7^{th} number?

Answer: _____ (3m)

---

7. Jeslin has some balloons to give to some children at a birthday party. If she gives each child 4 balloons, she will have 35 balloons left over. If she gives each child 6 balloons, she will have 11 balloons left over. How many balloons does Jeslin have?

Answer: _____ (3m)

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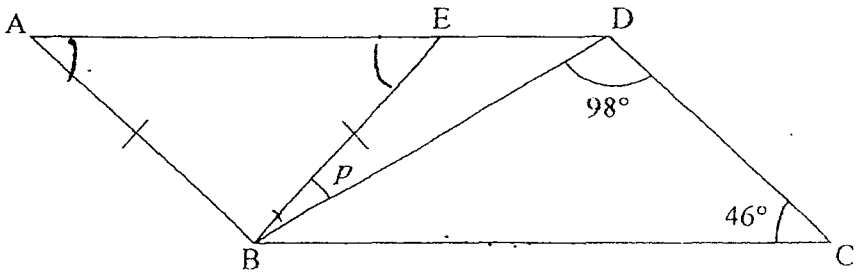
8. Mrs Lee wants to buy pencils as presents for her pupils for Children's Day. For every 4 pencils she buys, she gets 2 pencils free. What is the least amount of money Mrs Lee will pay if she wants to buy 32 pencils?



Answer: _____ (3m)

---

9. The figure below is not drawn to scale. ABCD is a parallelogram and ABE is an isosceles triangle. Find $\angle p$.



Answer: _____ (3m)

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10. Nellie plans to make 340 friendship bands to sell at the bazaar. Each day, she will make 4 more friendship bands than the previous day. She plans to complete the friendship bands in 5 days. How many friendship bands does Nellie plan to make on the first day?

Answer: _____ (3m)

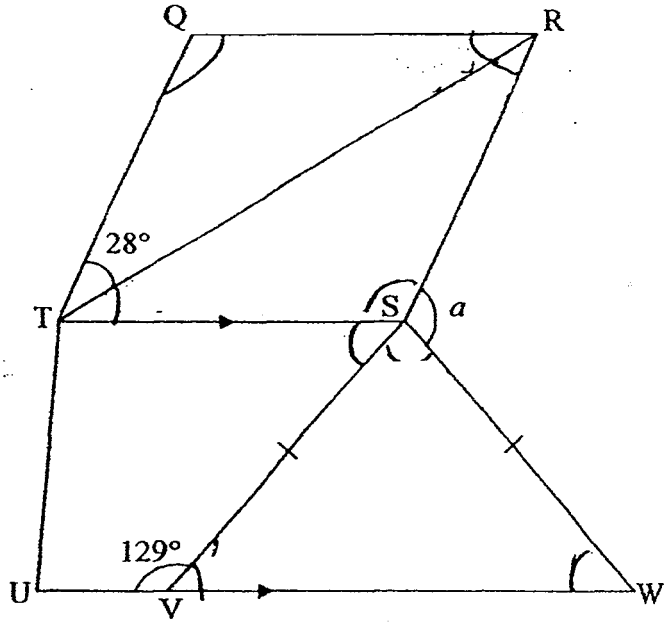
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11. Sui Leng has 2 more ~~fifty-cent~~ twenty coins than ~~twenty-cent~~ fifty coins. The value of the fifty-cent coins is $7.40 more than the value of the twenty-cent coins. How many coins does Sui Leng have?

Answer: _____ (4m)

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12. The diagram shown below is not drawn to scale. QRST is a rhombus and STUW is a trapezium. Find $\angle a$.



Answer: _____ (4m)

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13. Mr Yeo and Mr Woon left Town X for Town Y at the same time. When Mr Yeo reached Town Y 6 hours later, Mr Woon covered only $\frac{3}{5}$ of the distance. If the average speed of Mr Woon was 40 km/h less than the average speed of Mr Yeo,

(a) find the distance from Town X to Town Y;

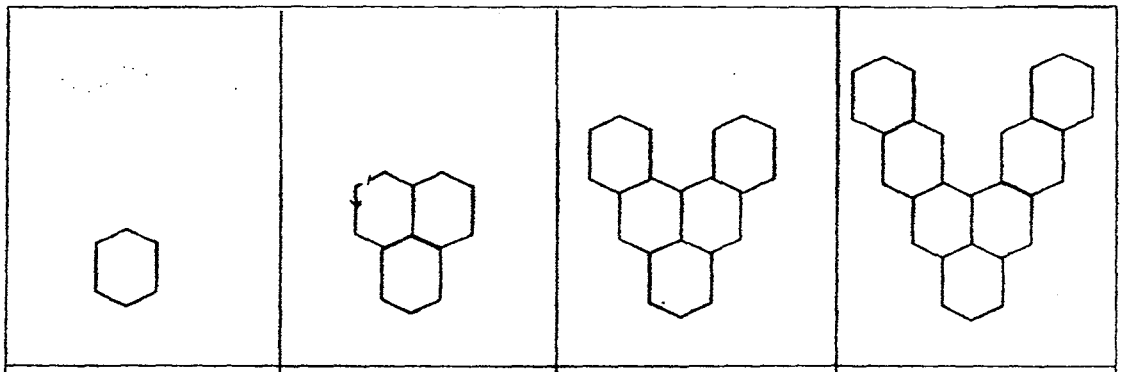
(b) find Mr Yeo's average speed.

Answer: (a) _____ (3m)

(b) _____ (1m)

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14. Helen uses some toothpicks to form the pattern below.



Pattern 1	Pattern 2	Pattern 3	Pattern 4

Pattern	**Number of toothpicks**
1	6
2	15
3	25
4	35
5	(a) _____ (1m)

(a) How many toothpicks will she need to form Pattern 5?

(b) How many toothpicks will she need to form Pattern 40?

(c) Helen uses 4955 toothpicks to form a Pattern. Which Pattern is it?

Answer: (b) _____ (2m)

(c) _____ (2m)

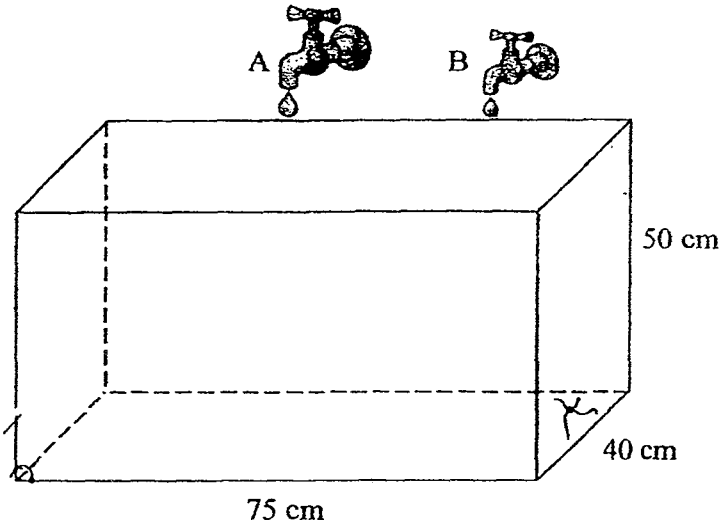
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15. Vivian spent 25% of her money and additional $45 on a bracelet. She then spent 40% of her remaining money and an additional $25 on a watch. Given that she was left with $65, how much money did Vivian have at first?

Answer: _____ (4m)

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16. Raju bought a new fish tank measuring 75 cm by 40 cm by 50 cm. To fill it up with water, he used 2 taps. Tap A alone could fill the whole fish tank in 20 minutes while Tap B alone could fill the whole fish tank in 30 minutes. There was a small hole at the bottom of the fish tank which water leaked out at the rate of 500 ml per minute. How long would it take for Raju to fill up the fish tank if both taps A and B were turned on at the same time?



Answer: _____ (4m)

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17. Jane, Ken and Leon decided to contribute some money to buy a present for their mother. Jane agreed to contribute 30% of the cost of the present while Ken agreed to pay 40% of the remaining amount. The rest will be paid by Leon. However, when they went to buy the present, the price of the item had increased by 25%. As a result, Jane paid $36 for her share.

(a) What was the original price of the present?

(b) How much did Leon have to pay in the end?

Answer: (a) _____ (3m)

(b) _____ (2m)

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18. Mrs Wong has some apples and pears. If she exchanges 10% of her apples for pears, she will have 160 pears. On the other hand, if she exchanges 20% of her pears for apples, she will have 100 pears left. What fraction of her fruits are apples? Give your answer in its simplest form.

Answer: _____ (5m)

----- End of Paper 2-----

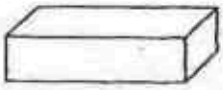
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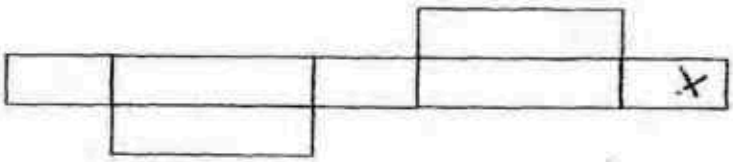
EXAM PAPER 2015
LEVEL : PRIMARY 6
SCHOOL : TEMASEK PRIMARY SCHOOL
SUBJECT : MATHS
TERM : PRELIMINARY EXAMINATION

PAPER ONE

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	3	1	2	4	4	1	4	3	2
Q11	Q12	Q13	Q14	Q15					
4	2	1	2	3					

Q16. $\frac{1}{30} \rightarrow \frac{2}{15} X \frac{1}{4} = \frac{1}{30}$ Q17. 78 Q18. 4499 Q19. $\frac{2}{5}$
Q20. $343cm^3 \rightarrow 7cm \times 7cm \times 7cm = 343$ Q21. **SEE PICTURE**





Q22. $60cm^2 \rightarrow \frac{1}{2} \times 12 \times 10cm = 60cm$ Q23. 1.25kg → 250 x 5 = 1250, 1250 = 1.25
Q24. 7.5% → 60 ÷ 8 = 7.5 Q25. 5 → 40 – 15 = 25
Q26. 28kg → 72kg – 6 = 66kg, 66kg ÷ 3 = 22kg
Q27. 120° → 360 – 280 = 80, 80 ÷ 2 = 40, $\angle CAD = 180° - 40° - 20° = 120°$
Q28. 90 → Red : Blue : Yellow → 2 : 3 , 8 : 12 : 15 , 4 : 5 , 3 units → 210, 1 unit →210 ÷35 = 6,
No. of yellow buttons → 15 = 90
Q29. 25 → 1 x 55 = 55, 80 + 60 + 55= 195, 270-195=75, 75 ÷3=25
Q30. 4 points → 11 + 19 + 16 = 46, 46÷2 =23, 23 - 19 = 4

PAPER 2

Q1. $\frac{y+9}{8}$ stamps → $y - 11 = y - 11, y - 11 + 20 = y + 9$, No. of stamps in each box $\frac{y+9}{8}$
Q2. 140 cookies → a : b : c → 2 : 2 : 3 → 1 unit → 60 ÷ 3 = 20, No. of cookies altogether = 20 x 7 = 140.
Q3. 87 years → S : C →3 : 2 → 15 : 10, R : C →2 : 5 → 4 : 10, 11 units = 33, 1 unit = 33 ÷ 11 = 3,
total age = 29 x 3 =87.
Q4. 20.3kg → 9kg -6.1kg = 2.9kg, 2.9kg x 3 = 8.7kg, Mass of empty box = 9kg -8.7kg = 0.3kg
Q5. 4.35pm→ 0240→ 2.40am, 0840 →8.40am = total 6hrs
Q6. 118 → 55 x 6 = 330, 64x7=448, 7th number = 448 – 330=118
Q7. 83 → gives 4 →35 excess, gives 6 → 11 excess, 35 - 11= 24, 6 – 4 = 2, 24 ÷2 =12, No. of
balloons = 112 x 4 + 35 = 83
Q8. $8.80 → 4 + 2 = 6, 40.40 x 4 = $1.60, 32 ÷ 6 = 5R2, 5 sets = 5 x $1.60 = $8, Amt of money mrs
lee needs to pay = $8 + ($0.40 x 2) = $8.80
Q9. 10° → 180° - 46° - 46° = 88°, ∠98° – 88° = 10°.
Q10. 60 → 4 + 8 + 12 +16 , 340 – 40 = 300, 300 ÷ 5 = 60, 300 ÷ 5 = 60, No. of friendship bands
Nellie plans to make on the first day = 60.
Q11. 54 → No. of coins = 26 + 28 = 54
Q12. 78° → $\angle RST$ → 180° – (2 x 28°) = 124°, $\angle VSW$ → 180° – (2 X 51°) = 78°
Q13a. 600km → 40km x 1h x 6 = 240km, 240km ÷ 2 = 120km, 120km x 5 = 600km,
Q13b. 100km/hr → Mr yeo's average speed = 600km ÷ 6hr = 100km/hr

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Q14a. **SEE PICTURE** Q14b. 395 → Pattern 40 = 40 x 10 = 5 = 395

Pattern	Number of toothpicks
1	6
2	15
3	25
4	35
5	(a) 45 (1m)

Q14c. 496 → Pattern no. (495 +5) ÷ 10 = 496
Q15$260 → 6 units → $65 + $25 = $90, 1 unit → $90 ÷ 6 = $15, 10 units → $15 x 10 = $150, $150 + $45 = $195, 1 unit →$195 ÷ 3 = $65, Amt of money Vivian had at first = $65 x 4 = $260.
Q16. 12min 30sec → 50cm x 40cm x 75cm = 150,000, 150,000 ÷ 20 = 7500, 150, 000 ÷ 30 = 5,000, 7500 + 5000 = 12,500, 12,500 – 500 = 12,000, How long it will take = 150,000 ÷ 12,000 = 12min 30secs.
Q17.a. $96 →Present → Joyce 30%, 70% → Ken 40% , Leon 60%, 30% of present price →$36, 100% of present price = $126, 125% of original price → $120, 100% of original price → $96.
Q17b. $50.50 → Amount Leon → $(\frac{3}{5} \times \frac{7}{10}) \times \$120 = \$50.50$
QQ18. $\frac{14}{19}$ → 80% pears → 100, 100 ÷ 4 = 25, 25 x 5 = 125, 25 x 5 = 125, 10% apples →160 – 125= 35, 1 apple → 10 X 35 = 350, Total no. of fruits → 350 + 125 = 425, Fraction required = $\frac{14}{19}$

THE END

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PEI HWA PRESBYTERIAN PRIMARY SCHOOL
PRELIMINARY EXAMINATION

PRIMARY 6
MATHEMATICS PAPER 1
(BOOKLET A)

25 AUGUST 2015

Name : _____

Form Class / Register No. : 6R _____ / _____

Banded Class / Register No. : 6M_____ / _____

Total time for Booklets A and B: 50min

INSTRUCTIONS TO CANDIDATES

1. Write your Name, Class and Register No. in the spaces provided above.
2. DO NOT turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Shade your answers on the Optical Answer Sheet (OAS) provided.
6. The use of calculator is **NOT ALLOWED**.

This booklet consists of 6 printed pages, excluding the cover page.

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Paper 1 (Booklet A)

Questions **1** to **10** carry 1 mark each. Questions **11** to **15** carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

You are <u>not</u> allowed to use a calculator. (20 marks)

---

1 What is the value of seven million, seven hundred and seven thousand, and seventy-seven?

(1) 7 007 777

(2) 7 700 777

(3) 7 707 077

(4) 7 770 077 ( )

2 Divide $\frac{1}{2}$ by $\frac{1}{8}$.

(1) 16

(2) $\frac{1}{16}$

(3) $\frac{1}{4}$

(4) 4 ( )

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3 What is the value of 10 ÷ 5000?

(1) 500

(2) 50

(3) 0.02

(4) 0.002 ( )

4 Which of the following is the same as 2080 g ?

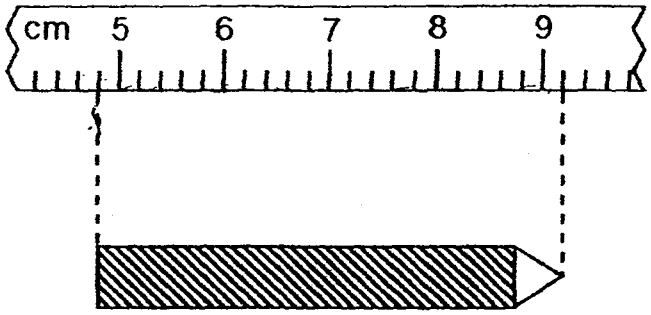
(1) 2 kg 8 g

(2) 2 kg 80 g

(3) 20 kg 8 g

(4) 20 kg 80 g ( )

5 Hannah uses part of a ruler to measure the length of a pencil.



What is the length of the pencil as shown in the figure above?

(1) 4.2 cm

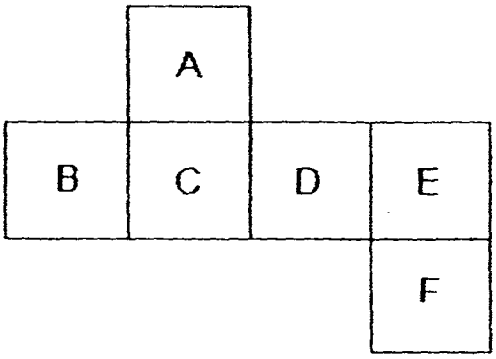
(2) 4.4 cm

(3) 9.1 cm

(4) 9.2 cm ( )

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6 The figure below shows the net of a cube.
Which 2 faces of the cube are opposite each other?



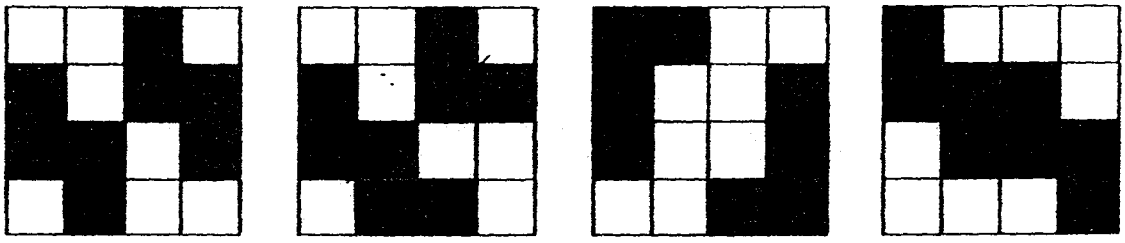
(1) A and E

(2) B and E

(3) A and F

(4) B and F ( )

7 Each figure below is made up of 16 squares.
8 squares in each figure are shaded.
Which of the following is a symmetric figure?



(1) (2) (3) (4)

( )

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8 The total mass of a chicken and a duck is 8 kg. The chicken weighs 3 kg. What is the ratio of the mass of the chicken to that of the mass of the duck?

(1) 8 : 3

(2) 5 : 3

(3) 3 : 8

(4) 3 : 5 ( )

9 Express 12.3% as a decimal.

(1) 12 300

(2) 12.3

(3) 1.23

(4) 0.123 ( )

10 Simplify $15 + 8g - 10 - 3g$

(1) $5 + 5g$

(2) $5 + 11g$

(3) $25 - 5g$

(4) $25 + 11g$ ( )

11 Alfred had twice as many paper clips as Betty. Betty had 20 fewer paper clips than Charlene. If the three children had 68 paper clips altogether, how many paper clips did Betty have?

(1) 12

(2) 22

(3) 24

(4) 32 ( )

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12 Mrs Lim and Mrs Wong spent a total of $1200 during the Great Singapore Sale. $\frac{3}{5}$ of what Mrs Lim spent was equal to $\frac{1}{5}$ of what Mrs Wong spent. Who spent more and how much more did she spend?

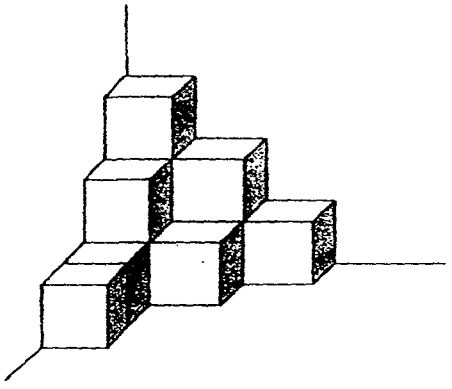
(1) Mrs Lim, $180

(2) Mrs Lim, $300

(3) Mrs Wong, $600

(4) Mrs Wong, $900 ( )

13 Cubes of sides 1-cm are stacked in the corner of a box as shown below.



How many more cubes are needed to make it into a cube of sides 4-cm?

(1) 7

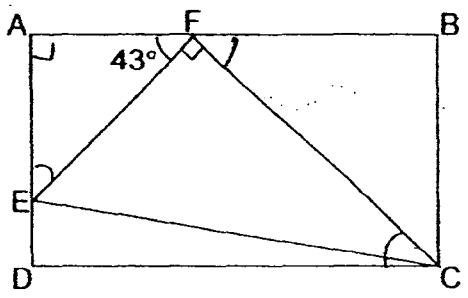
(2) 11

(3) 53

(4) 57 ( )

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14 In the figure, ABCD is a rectangle. ∠AFE is 43°.
Find ∠FCD.



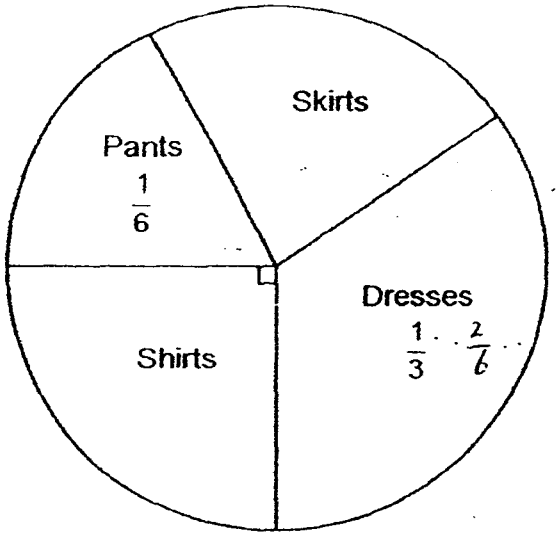
(1) 47°

(2) 57°

(3) 133°

(4) 137° ( )

15 Mrs Tan spent $360 on some clothing. The pie chart shows how she spent her money. How much money did she spend on skirts and shirts?



(1) $60

(2) $90

(3) $120

(4) $180)

-- End of Booklet A --

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Questions **16** to **25** carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. **(10 marks)**

Do not write in this space.

16 Find the value of $77 + (12 - 5 \times 2) \times 9$.

Ans: _____

17 Express $3\frac{2}{9}$ as an improper fraction in the simplest form.

Ans: _____

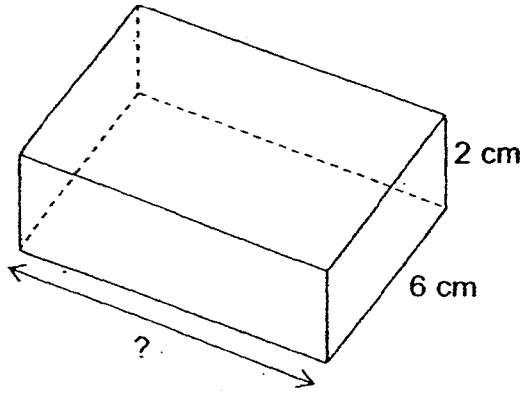
18 Find the value of $20 - 7.07$.

Ans: _____

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Do not write in this space.

19 The volume of the cuboid shown below is 216 cm^3. Find its length.



Ans: _____ cm

20 Farhan reached Malacca at 04 25 after travelling for 7.5 hours.
What time did he start travelling?
Express your answer in 24-hour clock.

Ans: _____

21 Muthu is standing in the centre of 9 big tiles facing B.
Which letter will he face when he turns 225° anti-clockwise?

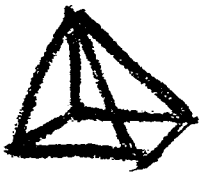
A	B	C
D		E
F	G	H

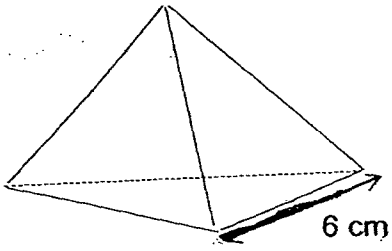
Ans: _____

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22 The figure below shows the net of a pyramid made up of 4 equilateral triangles, each of side 6 cm. Find the sum of all the edges of the pyramid.





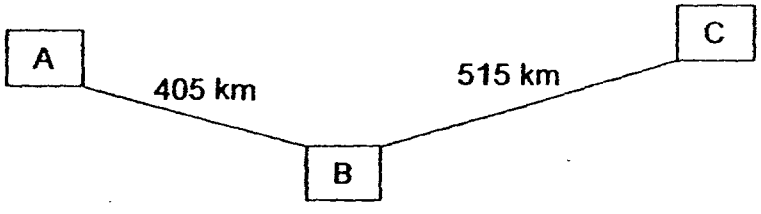
Ans: _____ cm

23 Express $\frac{75}{500}$ as a percentage.

Ans: _____ %

24 The average speed taken to travel from A to C was 92km/h.

Find the time taken to travel from A to C.

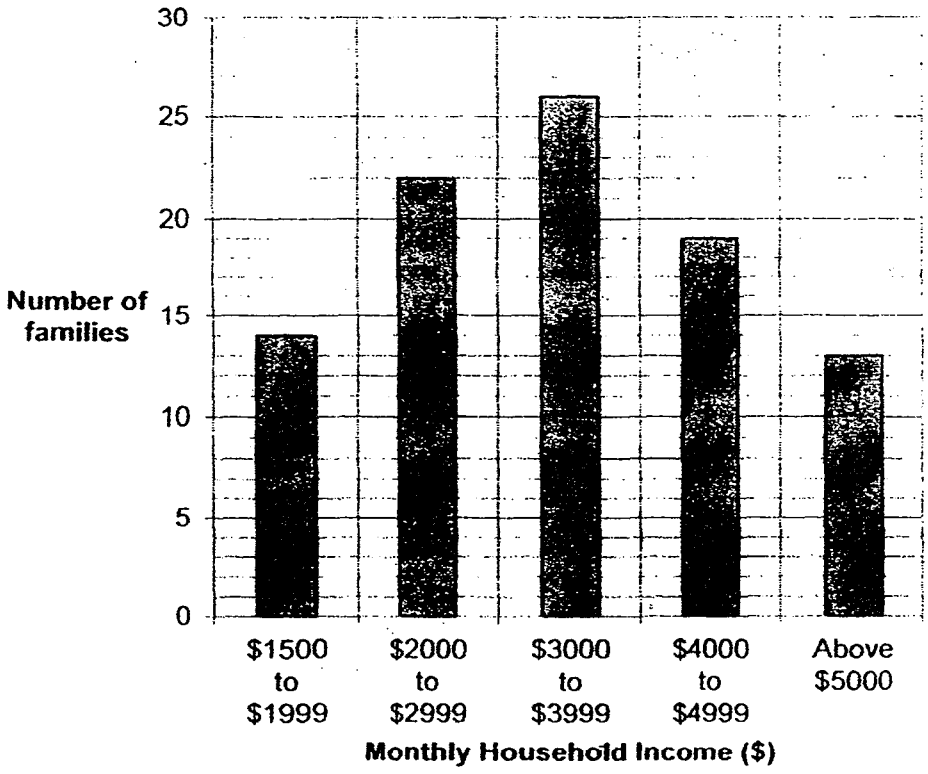


Ans: _____ h

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25 The graph below shows the monthly household income of some families in a housing estate.

Do not write in this space.



How many families have a monthly household income of more than or equal to $4000 per month?

Ans: _____

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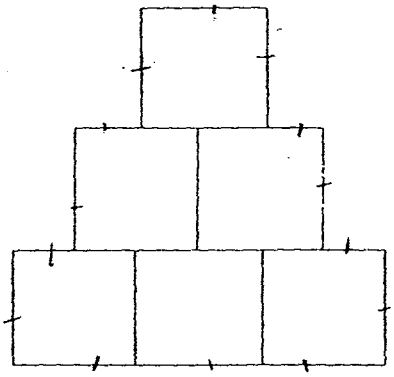
Questions **26** to **30** carry 2 marks each. Show your working clearly and write your answers the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space.

26 8 identical cups and 2 identical pots cost $80. Each pot costs six times as much as a cup. What is the cost of each ~~tea~~pot?

Ans: $ _____

27 The figure below is made up of identical squares.
If the total area of the figure is 96 m^2, what is the perimeter of the figure?

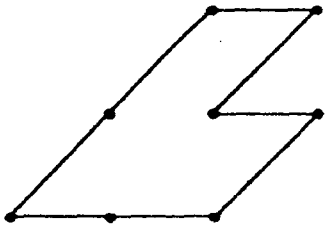


Ans: _____ m

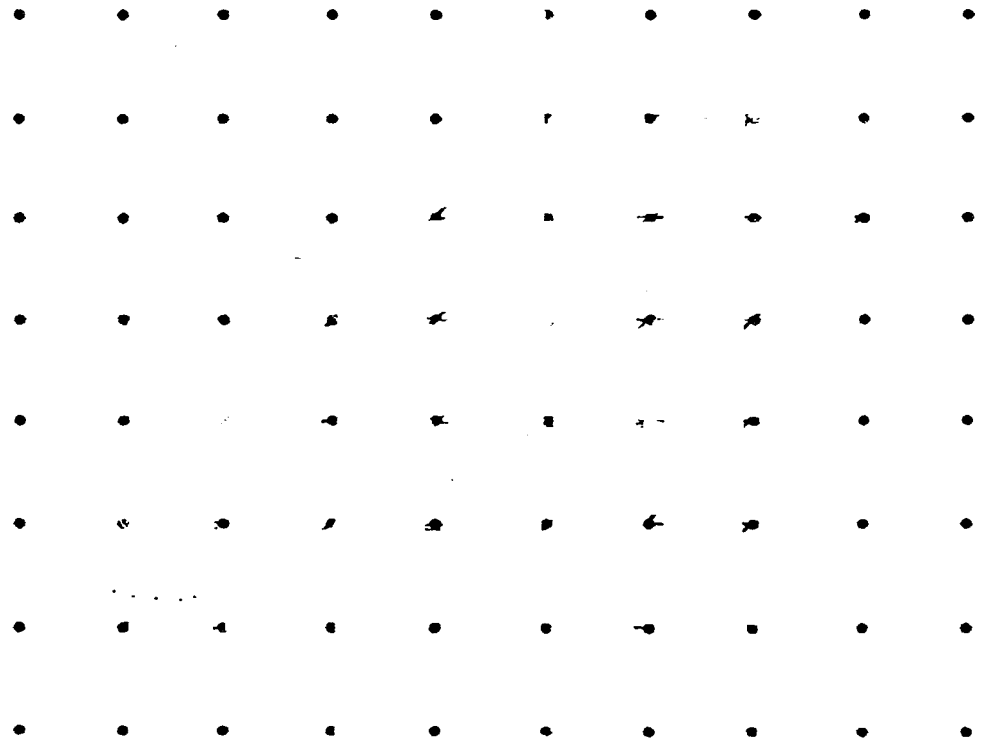
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28 A unit shape is drawn below.



The figure below is formed by joining some unit shapes to form a tessellation. Draw lines in the figure below to show all the unit shapes that formed the tessellation.



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Do not write in this space.

29 Alvin had 20% more money than Simon. Theodore had 40% more money than Alvin. If Theodore had $840, how much did the person with the least amount of money have?

Ans: $_____

30 The table below shows the ages of three sisters.

Girls	Ages
Gwendolyn	8 years 9 months
Glynnis	7 years 7 months
Glenda	5 years 11 months

Find the average age of the three sisters.

Ans: _____ years _____ months

END OF PAPER 1

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PEI HWA PRESBYTERIAN PRIMARY SCHOOL
PRELIMINARY EXAMINATION

PRIMARY 6
MATHEMATICS PAPER 1
(BOOKLET B)

25 AUGUST 2015

Parent's signature

Name : _____

Form Class / Register No. : 6R_____ / _____

Banded Class / Register No. : 6M_____ / _____

Total time for Booklets A and B: 50min

INSTRUCTIONS TO CANDIDATES

1. Write your Name, Class and Register No. in the spaces provided above.
2. DO NOT turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Write all your answers in this booklet.
6. The use of calculator is **NOT ALLOWED**.

Marks (Booklet A) :	20
Marks (Booklet B) :	20
Total Marks (Booklets A and B) :	40

This booklet consists of 7 printed pages, excluding the cover page.

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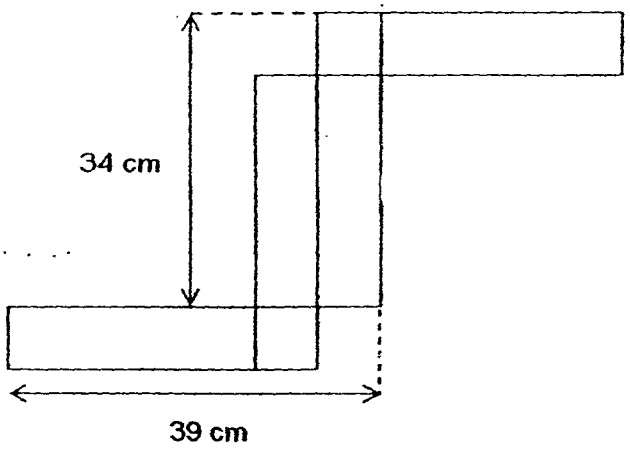
Questions **1** to **5** carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answer in the units stated. (10 marks)

Do not write in this space

1 A tailor had 8 m of cloth. He used $3\frac{2}{5}$ m of the cloth to make the first pair of pants and $\frac{3}{4}$ of the remainder to make a second pair of pants. How much **cloth** did the tailor use to make the **second pair of pants?**

Ans: _____ m

2 The figure below shows the net of a cuboid made of 4 identical rectangles and 2 identical squares. Find the volume of the cuboid.



Ans: _____ cm^3

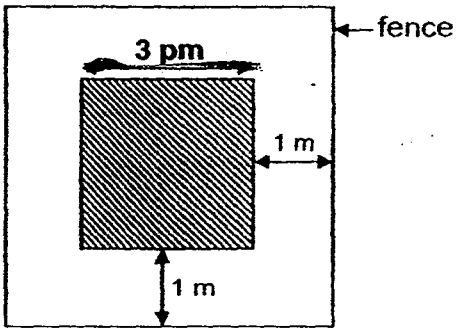
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3 The ratio of the number of Tevin's marbles to the number of Ryan's marbles was **7: 3** When each of **them gave 30 marbles away,**, the ratio of the number of Tevin's marbles to the number of Ryan's marbles was **3 : 1.** Find the total **number of marbles** the boys had **at first.**

Do not write in this space

Ans: _____

4 A fence is to be built **1 m away from the sides of a square field.**
Each side of the square is **3 pm.**
Find the **total length of the fence needed.**
Give your answer in terms of **p in the simplest from.**

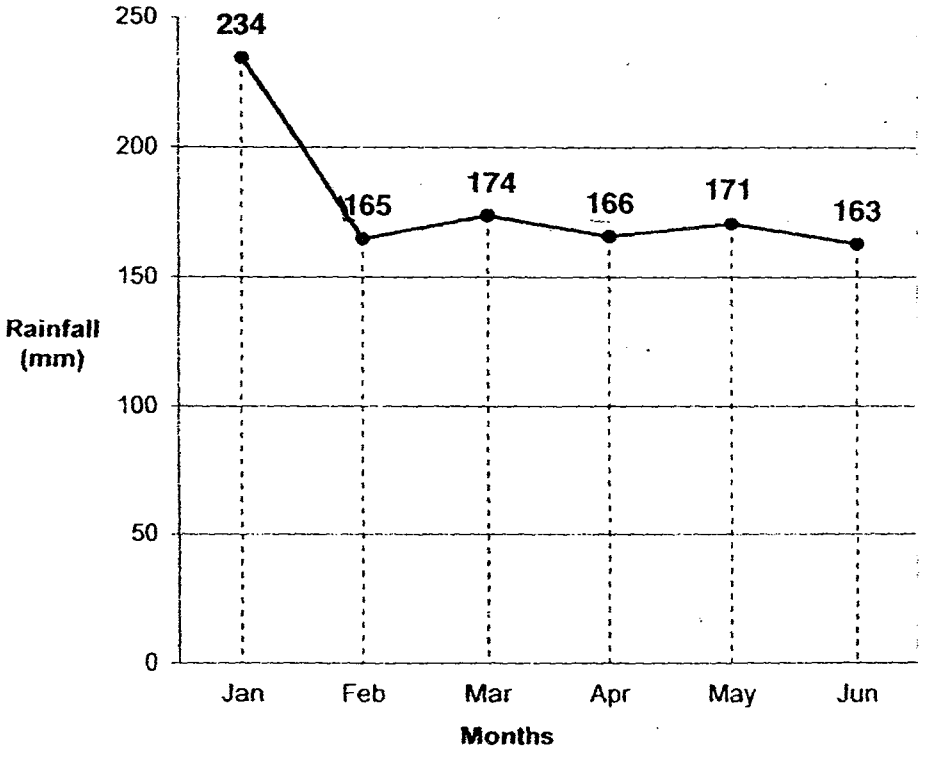


Ans: _____ m

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5 The graph below shows the monthly average rainfall received from January to June in Singapore.

Do not write in this space



(a) Between which two consecutive months was there the **greatest increase** in the **average rainfall** received in Singapore?

(b) Based on your answer in (a), what is the percentage increase in the average rainfall received? Give your answer correct to 2 decimal places.

Ans: (a) _____ and _____

(b) _____ %

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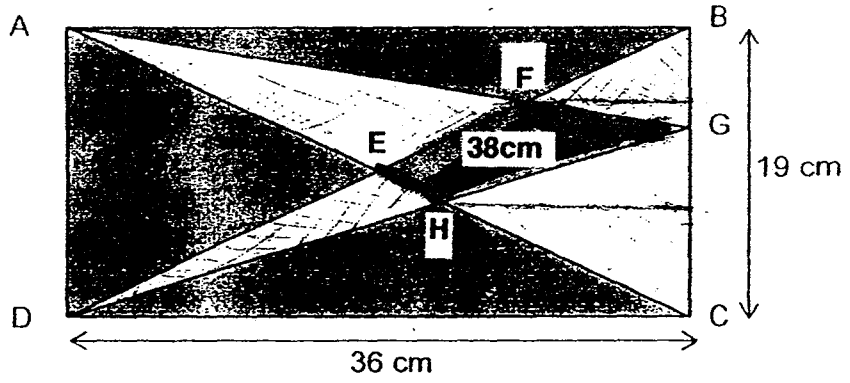
Questions **6** to **18** show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part question. (50 marks)

Do not write in this space

6 A box contains **15 identical reams of paper.** The total mass of the box with $\frac{1}{5}$ of all the reams of papers is **33.6 kg lighter than the box with all the reams of paper. The mass of the empty box is $\frac{2}{7}$ of a ream of paper. What is the mass of the empty box?**

Ans: _____ [3]

7 In the figure below, not drawn to scale, ABCD is a rectangle of sides 36 cm by 19 cm. The area of the quadrilateral EFGH is 38 cm^2. Find the area of the unshaded part.



Ans: _____ [3]

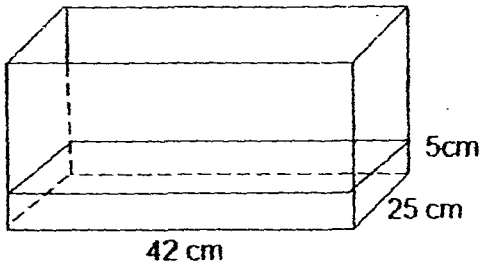
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Do not write in this space

8 The fish tank shown below contains some water to a depth of 5 cm.
Minah then added 10.5 litres of water into the tank.

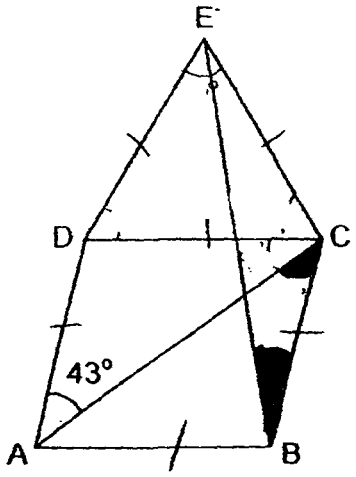
The tank is now $\frac{3}{4}$ filled with water.

What is the height of the tank?



Ans: _____ [3]

9 In the diagram below, not drawn to scale, ABCD is a **rhombus**, and DEC is an equilateral triangle. If ∠DAC = 43°, find ∠CBE.

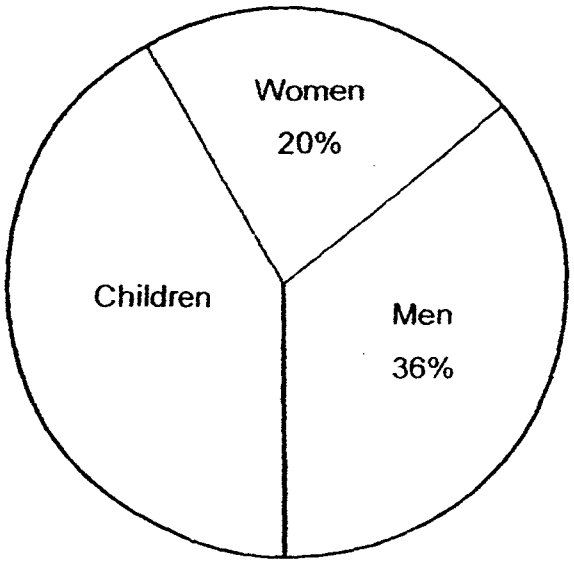


Ans: _____ [3]

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Do not write in this space

10 The pie chart below shows the percentage of men, women and children who went to the stadium to watch a soccer match.



There were 2880 men at the stadium. **If each woman was accompanied by her own child at the stadium and the rest of the children went on their own,** how many children went to the stadium **by themselves?**

Ans:_____ [3]

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Do not write in this space

11 Hansel sold purses and wallets. Each purse cost $39 and each wallet cost $\frac{2}{3}$ as much as the purse.

Hansel sold $\frac{1}{3}$ of the items and collected $3757.

If $\frac{3}{7}$ of the items sold were purses, find the total number of items left.

Ans: _____ [4]

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Do not write in this space

12 There were a total of 312 candies in Box A, B and C.
Some candies from Box B were removed and put into Box A and C and the number of candies in each of those 2 boxes was doubled.
Then, some candies from Box C were removed and put into Box A and B and the number of candies in each of those 2 boxes was doubled.
At the end, the number of candies in Box B is thrice of that in Box A while the number of candies in Box A is thrice of that in Box C.
Find the number of candies in Box B at first.

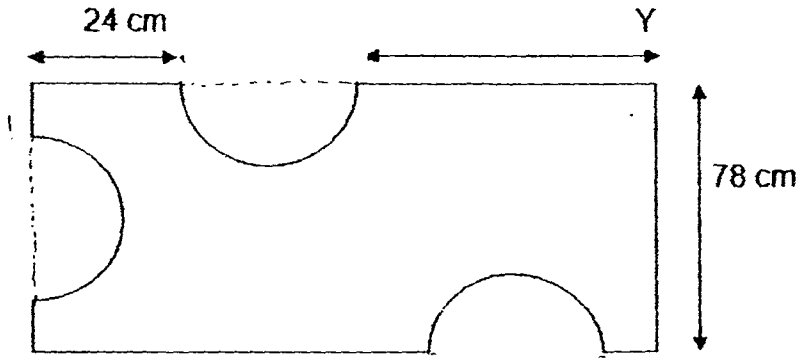
[4]

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Do not write in this space

13 Mr Chua had a rectangular piece of cardboard.
He cut out 3 semicircles, each with a diameter of 42 cm from the cardboard. The perimeter of the remaining piece of cardboard as shown below, not drawn to scale, is 462 cm.

What is the length of XY? (Take $\pi = \frac{22}{7}$)



Ans: _____ [4]

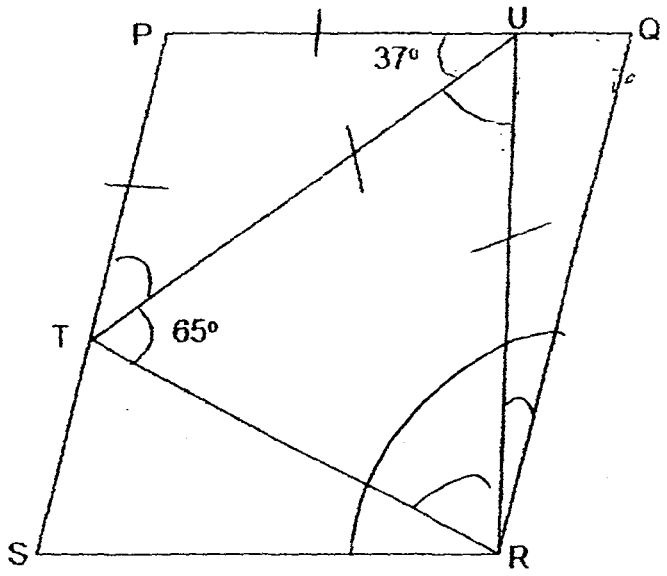
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Do not write in this space

14 In the figure, not drawn to scale, PQRS is a parallelogram and TUR is a triangle. If PT= PU, find

(a) $\angle TUR$

(b) $\angle URQ$



Ans: (a) _____ [1]

(b) _____ [3]

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15 At 4.30 p.m., Keith started cycling from Town A to Town B at an average speed of 60 m/min. At the same time, Maine started cycling from Town B to Town A at a constant speed. Keith had covered $\frac{3}{5}$ of the distance when he passed Maine at 6.30 p.m. Find the distance between Town A and Town B.

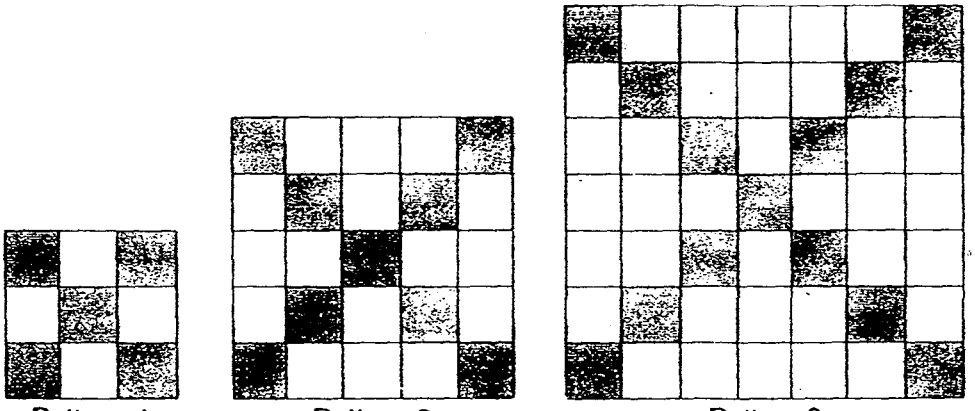
Do not write in this space

Ans: _____ [4]

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Do not write in this space

16 The patterns below are made up of identical shaded and unshaded squares.



Pattern 1 Pattern 2 Pattern 3

(a) Find the total number of squares in Pattern 4.
(b) Find the total number of shaded squares in Pattern 10.
(c) Find the total number of unshaded squares in Pattern 43.

Ans: (a) _____ [1]

(b) _____ [2]

(c) _____ [2]

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17 A rectangular tank measuring 400 cm by 200 cm by 150 cm was $\frac{1}{3}$ filled with water. A tap was turned on to fill the tank with water at a rate of 20 ℓ / min. Every 2 minutes after the tap was turned on, 8 ℓ of water was poured into the tank from a pail. How long did it take for the rectangular tank to be completely filled with water? Leave your answer as a mixed number in its simplest form.

Do not write in this space

Ans: _____ [5]

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18 In a ballroom, the ratio of the number of gold balloons to red balloons was 4 : 3. The ratio of the number of silver balloons to red balloons was 3 : 5. 10% of the gold balloons burst and were added ~~were replaced by~~ another 132 silver balloons. As a result, the percentage of the number of red balloons became 20% of the total number of balloons. How many balloons were there in the ballroom at first?

Do not write in this space

Ans: _____ [5]

-- End of Paper 2 --

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EXAM PAPER 2015
LEVEL : PRIMARY 6
SCHOOL : PEI HWA PRESBYTERIAN PRIMARY SCHOOL
SUBJECT* : *MATHS
TERM : PRELIMINARY EXAMINATION

PAPER ONE

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	4	4	2	2	3	2	4	4	1
Q11	Q12	Q13	Q14	Q15					
1	3	3	1	4					

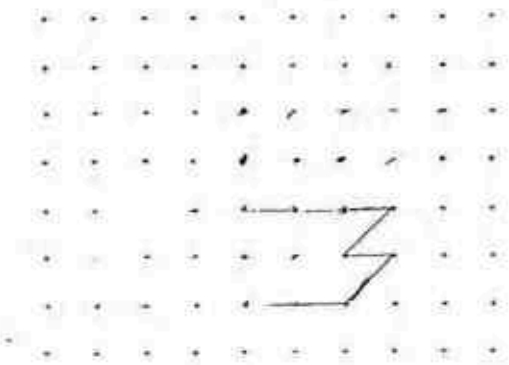
Q16. 95 Q17. $\frac{29}{9}$ Q18. 12.93 Q19. 18cm → 216÷2 = 108, 108÷6 = 18

Q20. 2055 Q21. H Q22. 36cm → 8 x 6 = 48 Q23. 15% → $\frac{75}{500} = \frac{15}{100} = 15\%$

Q24. 10h → 405km + 515km = 920km, 920km ÷92km/h = 10hr

Q25. 32 → 19 + 13 = 32 Q26. $24 → 8C + 12C → $80, 20C → $80, 1C → $4, $4 X 6 = $24

Q27. 48m → 96 ÷6 = 16, $\sqrt{16}$ → 4 , 4 x 12 = 48 Q28. SEE PICTURE



Q29. $500 → 42U → $840, U → $20, $20 X 25 = $500

Q30. 7 years 5 months → 8 yr 9 mth + 7yr 7 mth +5yr 11 mths = 20 yr 27 mth = 267 mth ,
267 mths ÷3 = 89 mths (1 sister) = 7yr 5 mths

BOOKLET B

Q1. $3\frac{9}{20}$m → 8 - $3\frac{2}{5} = 4\frac{3}{5}$, $4\frac{3}{5} \times \frac{3}{4} = 3\frac{9}{20}$

Q2. 725cm³→725cm³→ Length → 34 - 5 = 29, 5 x 5 x 29 = 725.

Q3. 300 → At first T : R → 7 : 3 , Difference is 4, After → T : R →3 : 1 , 6 : 2, Difference is 4, 7u – 6u = 1u,
1u →30, 10u = 300

Q4. (12P + 8) → 1 side of fence → 3pm + 1m +1m = (3p+2) m →4sides→(3p+2) x 4 = (12p+8)m

Q5a. February and March Q5b. 5.45% →174 – 165 =9, $\frac{9}{165} \times 100\% \approx 5.45\%$

Q6. 0.8kg → $\frac{1}{5}$x 15 = 3, (B + 15R) – (B + 3R) = 33.6kg, 15R – 3R = 12R, 12R →33.6KG, R→2.8kg,
2.8kg x $\frac{2}{7}$ = 0.8kg.

Q7. 304cm²→ $\frac{1}{2} \times 19 \times 36 = 342$ Q8. 20cm → 42 x 25 x 5= 5250, 5250 + 10,500 = 15,750, 15750÷3 =5250,
5250 x 4 = 21,000, 21,000 ÷42÷25=20.

Q9. 17°→ 60°+43°+43°=146°, 180° - 146° = 34° , 34° ÷ 2 = 17°

Q10. 1920 → 36%→2880, 1%→80, 20% (women) →1660, children (accompanied) →1600, 100% - 36% -
20% = 44%, 80 x 44 = 3520 children , 3520 - 1600 = 1920

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Q11. 238→purse → $39, wallet →439 x $\frac{1}{3}$ = $26, SOLD P →$117U , W→$104U→P : W, 3U : 4U , TOTAL 7U, UNSOLD → 14U, $117U+ 104U= $2221U, $221→$3757, U→417, $17 x $117U →$1989U, $1989 ÷$39 = 51 PURSES, $17 X $104U = $1768U, $1768 ÷$26 = 68 WALLETS, 68 + 51 = 119 (1/3 of items) , 119 x 2 = 238

Q12. 210→312 ÷26u = 12, 12 x 17.5 = 210.

Q13. 51cm →462 – 198 = 264, 78 – 42 = 36, 264 -36 -78 = 264, 78 – 42 = 36, 264 – 36 – 78 = 150, 150÷ 2 = 75, 75 – 24 = 51.

Q14a. 50° → 180° - (65° x 2) = 50°

Q14b. 13° → $\angle QUR$ →180° − 37° − 50° = 93°, $\angle TPU$ →180° − 37° − 37° = 106°, $\angle UQR$ →180° − 106° = 74°, $\angle URQ$ →180° − 93° − 74° = 13°.

*Q15. 12,000*m → *60*m*x120*min*= 7200*m, *7200*m *÷3 =2400*m, *2400*m *x 5 = 12,000*m.

Q16a. 81 →P1 →total:9, 1+2=3, 3 x 3 =9, P4 →Total : ?, 4 + 5 =9, 9 X 9 = 81.

Q16b. 41 →(10 x 4) + 1 = 41. Q16c. 7396→Shaded →43 x4 +1= 173, Total →43 + 44 = 87, 87 x 87 = 7569, 7569 – 173 = 7396.

Q17. $335\frac{3}{5}$mins → Every 2 mins = 8litre, *1* min = 4litre, 2mims→20l x 2 +8l=48litre, 8000ml ÷48litre = 166R32L, 32litre ÷20litre per min = $1\frac{3}{5}$ min, (166 x 2) + $1\frac{3}{5} = 333\frac{3}{5}$ *min*.

Q18. 176→15U X 5 = 75U, 75U – 15U – 18U – 9U=33U, 33U →132, U →4, 4 X (15U +20U +9U) = 176

THE END

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PEI CHUN PUBLIC SCHOOL

PRELIMINARY EXAMINATION, 2015

MATHEMATICS

PAPER 1

(BOOKLET A)

Additional materials: Optical Answer Sheet (OAS) **Total Time For Booklets A & B : 50 min**

Name : _____

Class : Primary 6

Date : 14 August 2015

INSTRUCTIONS TO CANDIDATES

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL THE QUESTIONS.

SHADE YOUR ANSWERS IN THE OPTICAL ANSWER SHEET (OAS) PROVIDED.

YOU ARE **NOT** ALLOWED TO USE A CALCULATOR.

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Questions **1** to **10** carry 1 mark each. Questions **11** to **15** carry 2 marks each.
For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

1. Round off 32 875 to the nearest hundred.

   (1) 32 870

   (2) 33 880

   (3) 32 900

   (4) 33 000

2. Express 4 kg 7 g in grams.

   (1) 4700 g

   (2) 4007 g

   (3) 470 g

   (4) 47 g

3. Which of the following is equal to 9.025?

   (1) $9\frac{2}{5}$

   (2) $9\frac{1}{25}$

   (3) $9\frac{25}{1000}$

   (4) $9\frac{25}{100}$

4. Which value does the digit 7 in 5 721 049 stand for?

   (1) 700

   (2) 7000

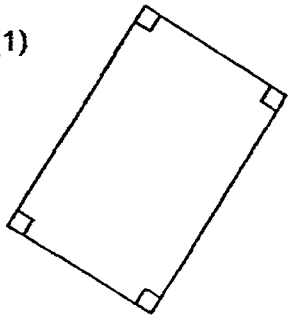
   (3) 70 000

   (4) 700 000

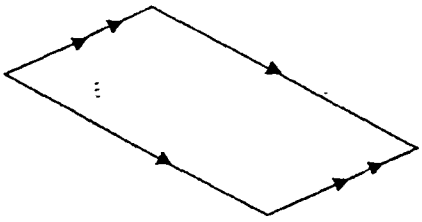
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5. Which of the following shapes is a rhombus?

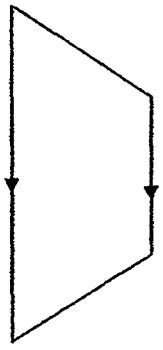
(1)



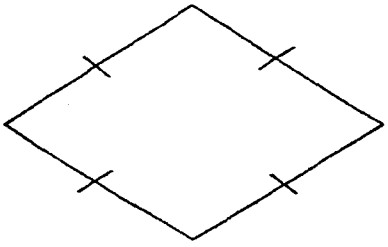
(2)



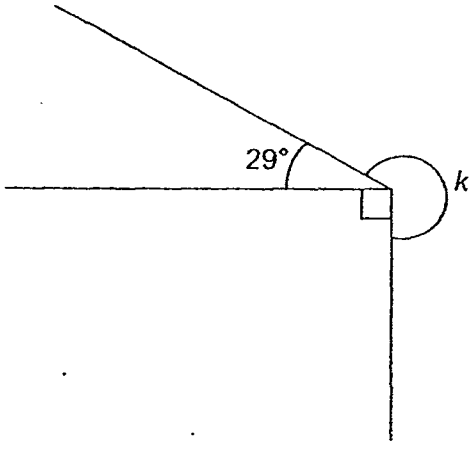
(3)



(4)



6. Study the figure below.



Find $\angle k$.

(1) 119°

(2) 241°

(3) 270°

(4) 331°

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7. Simplify the expression $14 + 7g - 5 + 3g$.

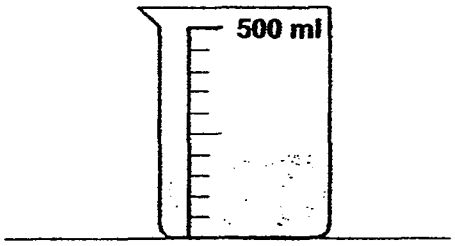
(1) $9 + 4g$

(2) $9 + 10g$

(3) $19 + 4g$

(4) $19 + 10g$

8. A container is filled with some water as shown below.



How much **more** water is required to fill the container to 500 ml?

(1) 100 ml

(2) 200 ml

(3) 300 ml

(4) 400 ml

9. Which of the following fractions is smaller than $\frac{5}{6}$ but larger than $\frac{1}{2}$?

(1) $\frac{11}{12}$

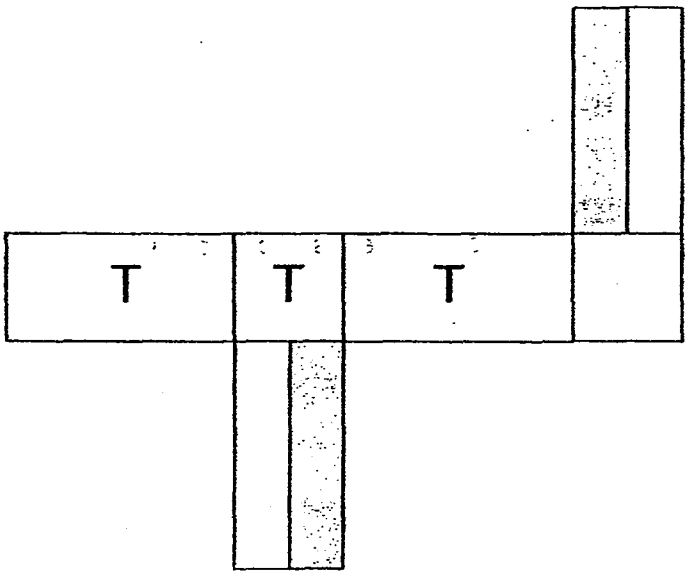
(2) $\frac{7}{14}$

(3) $\frac{15}{24}$

(4) $\frac{12}{25}$

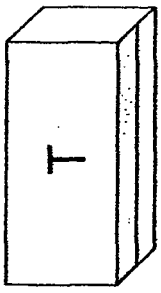
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10. The net of a cuboid has patterns on some of the faces as shown in the figure below, while the other side of the net is white.

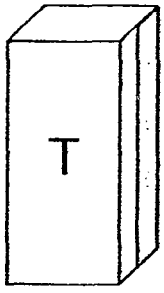


Which of the following is the cuboid that is formed by the net above?

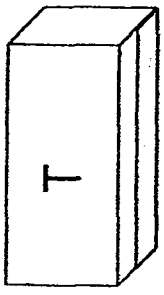
(1)



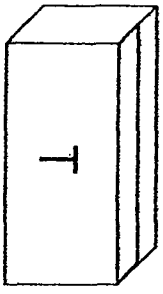
(2)



(3)



(4)



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11. Julian has 154 stickers. If he gives 72 stickers to his sister, the number of stickers his sister has will increase by 9%. How many stickers do they have altogether?

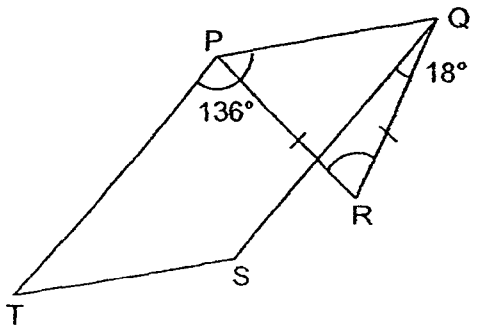
(1) 800

(2) 882

(3) 954

(4) 1026

12. In the figure, PQST is a parallelogram and PQR is an isosceles triangle. PR = QR, $\angle TPQ = 136°$ and $\angle SQR = 18°$.



Find $\angle PRQ$.

(1) 56°

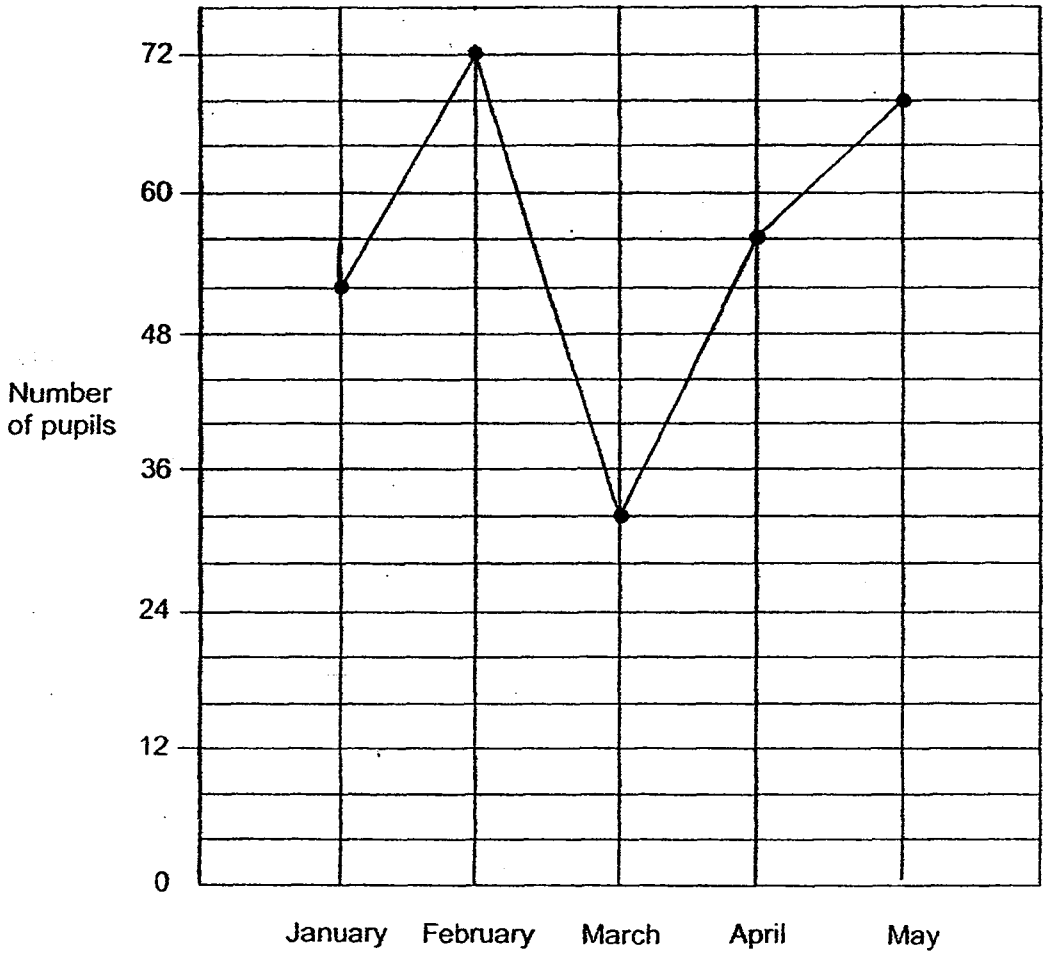
(2) 62°

(3) 74°

(4) 92°

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13. The line graph below shows the number of pupils who joined a Mathematics workshop from January to May.



From January to May, the number of boys who joined the workshop was $\frac{3}{5}$ of the number of girls. What was the number of boys who joined the workshop during that period?

(1) 35

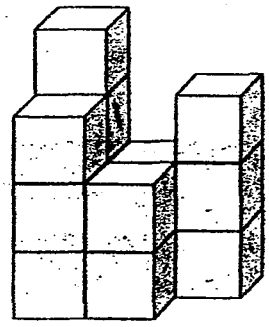
(2) 105

(3) 168

(4) 280

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14. The solid figure is made up of 14 cubes that are glued together. The whole solid, including the base, is then painted yellow. How many cubes have **three** of their faces painted yellow?



(1) 7

(2) 6

(3) 5

(4) 4

15. Dina baked a total of 130 cookies. $\frac{1}{2}$ of the vanilla cookies were 10 less than $\frac{1}{3}$ of the chocolate cookies. How many chocolate cookies did Dina bake?

(1) 60

(2) 66

(3) 86

(4) 90

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PEI CHUN PUBLIC SCHOOL

PRELIMINARY EXAMINATION, 2015

MATHEMATICS

PAPER 1

(BOOKLET B)

Total Time For Booklets A & B : 50 min

Name : _____

Class : Primary 6

Date : 14 August 2015

20

INSTRUCTIONS TO CANDIDATES

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS.

SHOW YOUR WORKING CLEARLY AS MARKS ARE AWARDED FOR CORRECT WORKING.

WRITE YOUR ANSWERS IN THIS BOOKLET.

YOU ARE **NOT** ALLOWED TO USE A CALCULATOR.

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Questions **16** to **25** carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

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16. What is the value of $\frac{3z-6}{2}$ when $z = 8$?

Answer: _____

17. List out all the common factors of 18 and 24.

Answer: _____

18. What is the value of 800 × 30?

Answer: _____

19. Sue started her piano lesson at 2.40 p.m. and ended her lesson at 4.05 p.m. How long was her piano lesson in h and min?

Answer: _____ h _____ min

SCORE

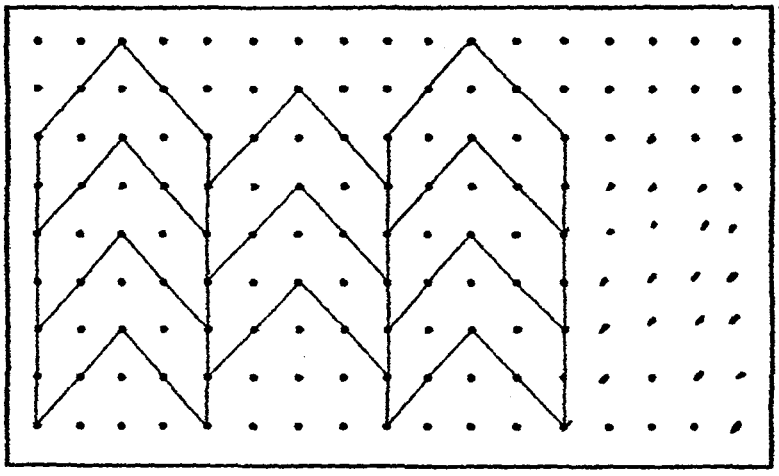
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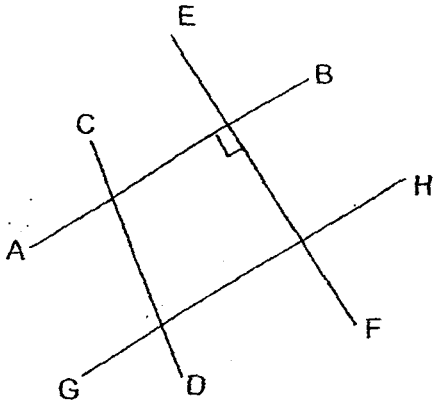
20. What is the value of 12.16 ÷ 4?

Answer: _____

21. The pattern in the box shows part of a tessellation. Extend the tessellation by drawing **two** more unit shapes in the space provided within the box.



22. Which line is perpendicular to line AB?



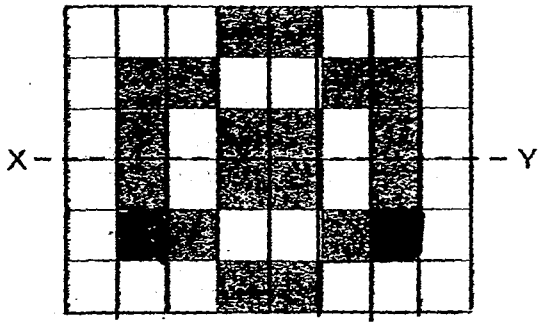
Answer: _____

SCORE

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23. Shade **two** more squares to form a symmetric figure with XY as the line of symmetry.



24. The radius of a circle is 28 cm. Find its circumference.
(Take $\pi = \frac{22}{7}$)

Answer: _____ cm

25. Find the value of $\frac{5}{6} \div 3$.

Answer: _____

SCORE

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Questions **26** to **30** carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space

26. Dave read $\frac{3}{7}$ of a book last week. He read the remaining 108 pages this week. How many pages did Dave read altogether?

Answer: _____

27. To make a nut mixture, Kate used 2 cups of walnuts for every 3 cups of almonds. She also used 4 cups of almonds for every 5 cups of peanuts. If she used 60 cups of peanuts, how many cups of walnuts did she use to make the nut mixture?

Answer: _____

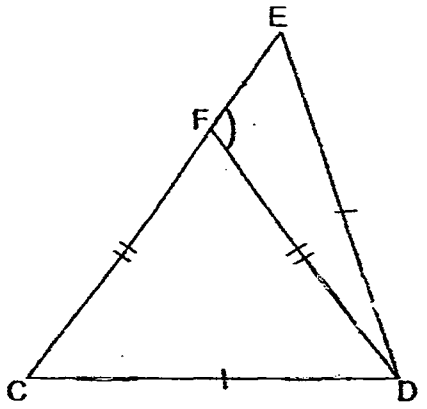
28. Ali paid $51 for 6 concert tickets. How much must he pay for 10 concert tickets?

Answer: $ _____

SCORE

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29. In the figure below, CDE and CDF are isosceles triangles. ∠DCF is three times as large as ∠EDF. Find ∠DFE.



Answer: _____ °

---

30. Mrs Leng has some sweets. If she gives each of her pupils 7 sweets, the last pupil will only have 2 sweets. If she gives to the same number of pupils 4 sweets each, she will have 73 sweets left. How many pupils does Mrs Leng have?

Answer: _____

End of Paper

SCORE

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PEI CHUN PUBLIC SCHOOL

PRELIMINARY EXAMINATION, 2015

MATHEMATICS

PAPER 2

Time: 1 h 40 min

Name : _____

Class : Primary 6

Date : 14 August 2015

Parent's Signature: _____

Paper 1 (Booklet A)	20
Paper 1 (Booklet B)	20
Paper 2	60
TOTAL	100

INSTRUCTIONS TO CANDIDATES

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YOU ARE ALLOWED TO USE A CALCULATOR.

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Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do no in this

1. Randy paid $y for 8 pencils and 5 rulers. Each ruler cost $1.20. How much did each pencil cost?

Answer: $ _____

2. Dolly mixed 0.34 ℓ of syrup with 2 ℓ 80 ml of water to make a drink. She poured the drink equally into 4 empty bottles. How many millilitres of the drink were there in each bottle?

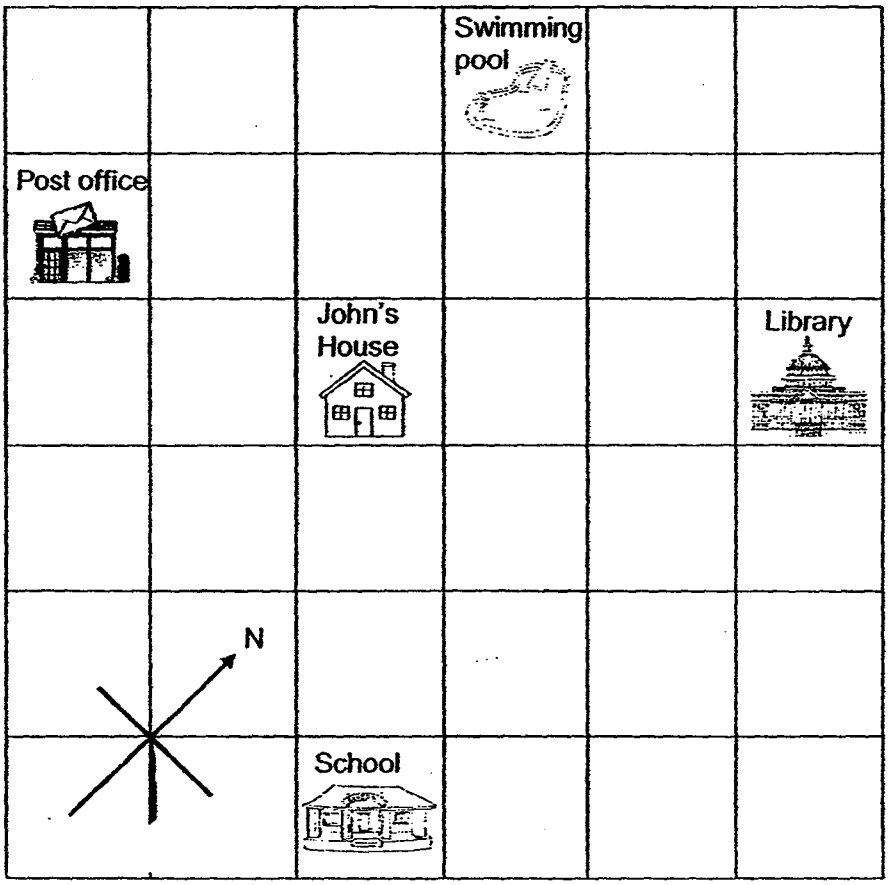
Answer: _____ ml

SCORE

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3. The square grid shows the map around John's house.



(a) In which direction is the school from John's house?

Answer: _____

(b) Based on the square grid above, fill in the blanks with John's house, library, school, post office or swimming pool.

The _____ is east of the _____

_____

SCORE

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in this :

4. Chloe wrote down all the whole numbers from 100 to 130. She circled those numbers whose sum of the digits is 3.
What was the average of the numbers that Chloe circled?

Answer: _____

---

5. Deepan and Ravi had the same number of apples. Deepan packed his apples into bags of 18 with no apples left over. After Ravi packed his apples into bags of 14, he had 11 more bags of apples than Deepan with 2 apples left over.
How many bags of apples did Deepan have?

Answer: _____

SCORE

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For questions **6** to **18**, show your working clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (50 marks)

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6. In a canteen, the ratio of the number of boys to the number of girls was 4 : 3. $\frac{1}{2}$ of the boys left the canteen. 60 pupils stayed behind.

(a) What was the ratio of the number of boys to the numbers of girls in the canteen in the end?

(b) How many pupils were in the canteen at first?

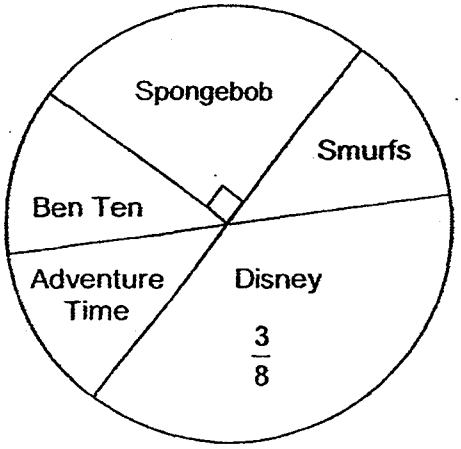
Answer: (a) _____ [1]

(b) _____ [2]

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7. The pie chart shows the favourite cartoons of 400 children. The same number of children chose Ben Ten, Adventure Time or Smurfs as their favourite cartoon.



(a) What was the ratio of the number of children who chose Spongebob as their favourite cartoon to the number of children who chose Disney as their favourite cartoon?

(b) What was the total number of children who chose Spongebob or Adventure Time as their favourite cartoon?

Answer: (a) _____ [1]

(b) _____ [2]

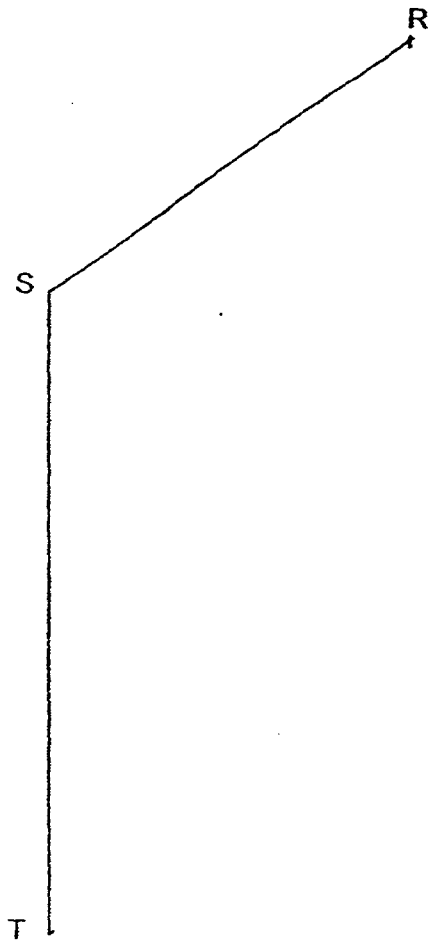
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8. The figure shows two sides of a parallelogram, RS and ST.



(a) Measure and write down the size of ∠RST.

(b) Draw the parallelogram by completing the figure above. [2]

Answer: (a) _____ [1]

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9. Leon had some 50¢ coins and Mike had some 20¢ coins. They had a total of 185 coins. After they spent an equal number of coins, Leon had 45 coins fewer than Mike.

(a) How many coins did Leon have at first?

(b) How much money did Leon have at first?

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Answer: (a) _____ [2]

(b) _____ [2]

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10. In March, Siew Leng was given a monthly allowance of $250. She spent 50% of it on food and transport and 20% of it on books and saved the rest. In April, the monthly allowance increased. Siew Leng was able to increase her spending on books by 30% and spent another 10% more on food and transport compared to the month of March. She saved the same amount of money for both months.

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(a) How much did Siew Leng spend on books in April?

(b) By what percentage did the monthly allowance increase?

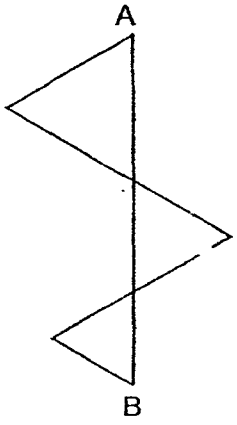
Answer: (a) _____ [1]

(b) _____ [3]

SCORE

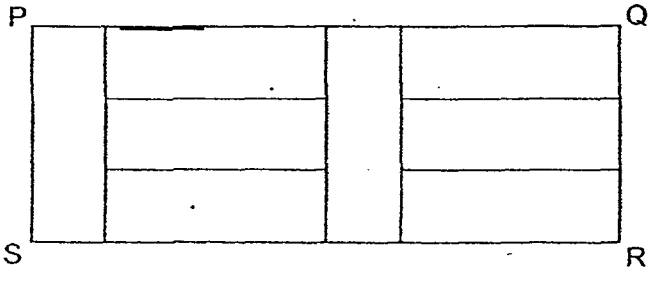
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11. (a) A piece of wire is bent into a shape that is made up of 3 equilateral triangles as shown below. The length of AB is 18 cm.



What is the length of the wire?

(b) Rectangle PQRS is made up of 8 identical rectangles and has a perimeter of 297 cm.



What is the length of PQ?

Answer: (a) _____ [2]

(b) _____ [2]

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12. Tasty Cake Shop baked some pies. $\frac{3}{7}$ of them were apple pies and the rest were chicken pies. After selling $\frac{2}{3}$ of the apple pies and 253 chicken pies, the shop had $\frac{1}{6}$ of the pies left. How many pies did Tasty Cake Shop sell?

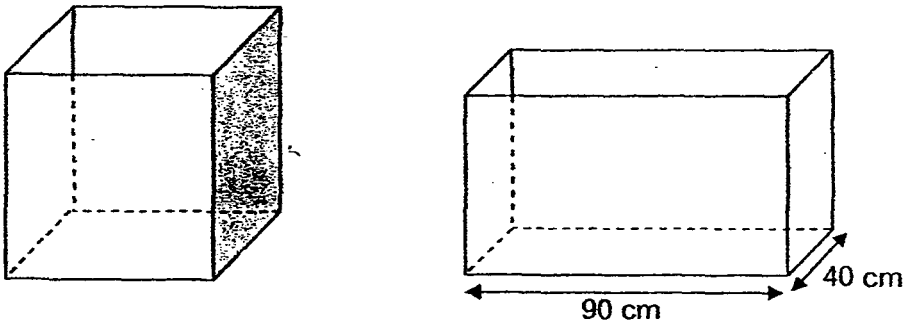
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Answer: _____ [4]

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13. A cubical Container A with a base area 3600 cm^2 was completely filled with water. After 25% of the water in Container A was poured into an empty Container B, Container B was $\frac{2}{7}$ filled with water.



Container A Container B

(a) How much water was poured from Container A into Container B?

(b) What was the height of Container B?

Answer: (a) _____ [2]

(b) _____ [2]

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14. There is a total of 1036 goats and ducks in a farm. $\frac{2}{9}$ of the number of goats is equal to $\frac{3}{5}$ of the number of ducks.

(a) How many goats are there on the farm?

(b) $\frac{1}{6}$ of the goats are sold. Express the number of goats remaining in the farm as a fraction of the number of ducks in the farm. Express the fraction in its simplest form.

Answer: (a) _____ [2]

(b) _____ [3]

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15. Zainal took 15 hours to drive from town R to town S. Che Lun took 12 hours to drive from town S to town R. The difference in their average speeds was 12.8 km/h.

(a) What was Che Lun's average speed?

(b) What was the distance between town R and town S?

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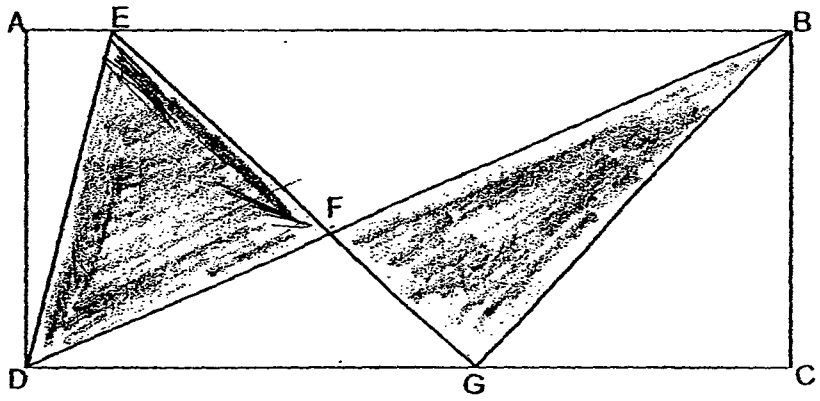
Answer: (a) _____

(b) _____

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16. The figure below shows a rectangle ABCD. EFG and DFB are straight lines. The area of rectangle ABCD is 960 cm^2 and the total area of triangles DEF and BFG is 336 cm^2. The ratio of length DG to the length GC is 7 : 5.
What is the area of the triangle DFG?



Answer: _____ [4]

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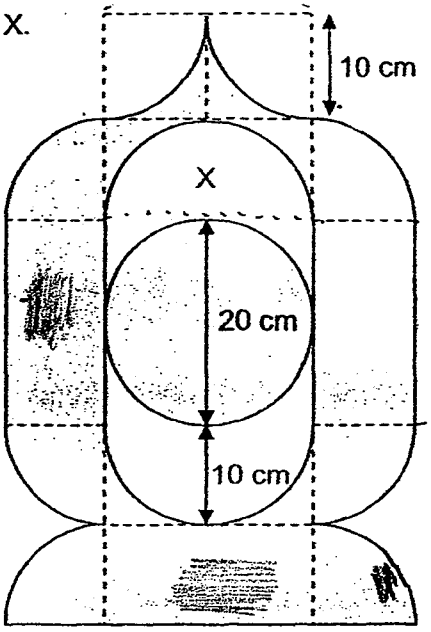
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17. The figure below is made up of 1 circle, 3 identical rectangles and 12 identical quarter circles of radius 10 cm.

(a) Find the perimeter of the unshaded part, X.

(b) Find the total area of the shaded parts.

(Take $\pi = 3.14$)



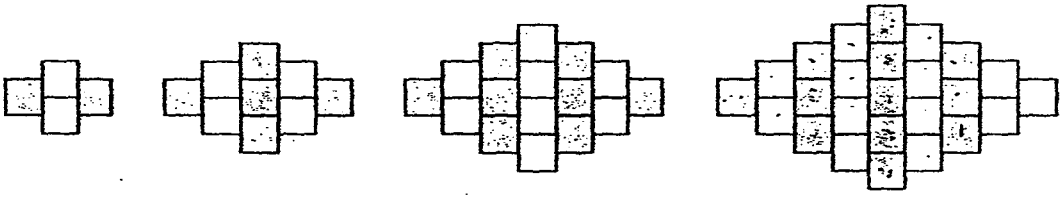
Answer: (a) _____ [2]

(b) _____ [3]

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18. Zach used some white and grey tiles to form some patterns. The first four patterns are shown below.



Pattern 1 Pattern 2 Pattern 3 Pattern 4

The table below shows the number of white and grey tiles used to form the patterns.

Pattern Number	Number of grey tiles	Number of white tiles	Total number of tiles
1	2	2	4
2	5	4	9
3	8	8	16
4	13	12	25
5			

(a) Complete the table above for Pattern 5. [1]

(b) How many tiles were used to form Pattern 80?

(c) How many grey tiles were used to form Pattern 120?

Answer: (b) _____ [2]

(c) _____ [2]

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End of Paper

Set by : Mdm Hoi Wan Hua, Mr Teng Beng Chye, Mr Stanley Soh and Mr Tan Keng Hock

SCORE

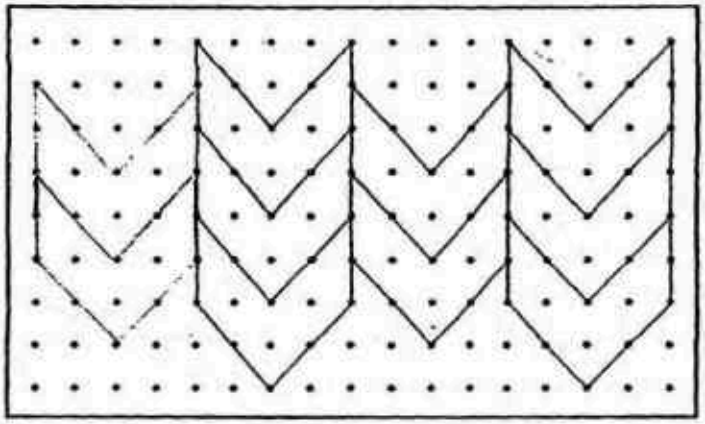
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EXAM PAPER 2015
LEVEL : PRIMARY 6
SCHOOL : PEI CHUN PUBLIC SCHOOL
***SUBJECT* : MATHS**
TERM : PRELIMINARY EXAMINATION

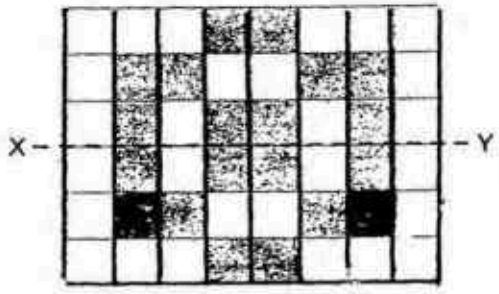
PAPER ONE

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	2	3	4	4	2	2	3	3	1
Q11	Q12	Q13	Q14	Q15					
3	1	2	2	4					

Q16. 9 → 32 = 24, $\frac{24-6}{2} = 9$
Q17. 1,2,3,6 Q18. 24,000 → 800 x 30 = 24,000
Q19. 1 hr 25 min Q20. 3.04 **Q21. . SEE PICTURE**



Q22. **EF** **Q23 SEE PICTURE** Q24. 176cm → 28 x 2 = 56, $\frac{22}{7}$ x 56 = 176

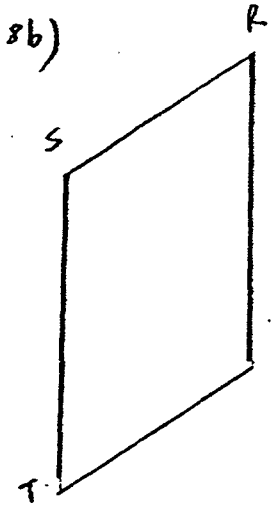


Q25. $\frac{5}{18}$ → $\frac{5}{6} x \frac{1}{3} = \frac{5}{18}$ Q26. 189 → 108 ÷ 4 = 27, 27 x 7 = 189
Q27. 32 → 60 ÷ 5 = 12, 12 x 4 = 48, 48÷3 = 16, 16 x 2 = 32
Q28. $85 → 51 ÷ 6 = 8.50, 8.50 x 10 =85
Q29. 108° → 4U+3U+3U=10U,1U=180°÷10=18°,3U=18°X3=54°,1U=18°,$\angle DFE = 180° - 18° - 54° = 108°$
Q30. 26 → Total difference = 73 +5=78, 1 Group difference = 7 - 4 = 3, Pupil = 78 ÷ 3 = 26.

Q1. $\$\frac{Y-6}{8}$ → 5 rulers = 1.20 x 5 = 6 , 8 pencils = $Y - 6, 1 pencil = $\$\frac{Y-6}{8}$
Q2. 605mL → 0.34L = 340ml, 2L80ml = 2080ml, 1 bottle = $\frac{2080+340}{4} = 605$

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Q3.a. South East Q3b. The **library** is east of the **swimming pool**.
Q4. 111 → Average = 102 + 111 + 120 ÷ 3 = 111
Q5. 39 → D 18 ;18, R 14:18, Difference 4 : 4 , Individual difference = 18 – 14 = 4,
Total difference = 11 x 14 + 2 = 156, Deepan has 156 ÷ 4 = 39.
Q6a. 2 : 3 → B : G : T, 4 : 3 : 7, 2 : 3: 5, Q6b. 84 → 5U = 60, 1U = 60 ÷5 = 12, 7U = 12 X 7= 84
Q7a. 2:3 → 5 : D, 2 : 3 , Q7b. 150 → Adventure time = $\frac{4}{8} - \frac{3}{8} = \frac{1}{8}$, *Adventure time* = $\frac{1}{8}$ x 400 = 50,
Spongebob = $\frac{1}{4}$ x 400 = 100, 100 + 50 = 150.
Q8a. 125° **Q8b. SEE PICTURE**



Q9a. 70 → 185 – 45 = 140, 140 ÷ 2 = 70, Q9b. $35 → Leon at first = 70 x 0.50 = 35
Q10a. $65→March : Books = 20% x 250 = 50, food and transport = 50% x 250 = 125, April = 100%+30%=130%
Books = 130% x 50 = 65
Q10b. 11% → March save = $\frac{10}{10} - \frac{5}{10} - \frac{2}{10} = \frac{3}{10}$, $\frac{3}{10}$ x 250 = 75 9 *save*) *march and april, April = Books* = 50%,
F + T = 60% , Now books = 10.30 x 50 = 150 = 65, Now F + T = 10.10 x 125+125 = 137.5
Q11a. 54 → 18 x 3 = 54, Q11b. 108cm → Total units =22, 1 unit = 297 ÷ 22 = 13.5, PQ = 8U,
8 unit = 13.5 x 8 = 108.
Q12. 385 → Pies → $\frac{3}{7}$ → $\frac{2}{3}$ x $\frac{3}{7} = \frac{2}{7}$ → $\frac{3}{2} x \frac{2}{2} = \frac{1}{7}$ → *chicken* → $1 - \frac{3}{7} = \frac{4}{7}$, *sold* = $1 - \frac{1}{6} = \frac{5}{6}$,
Chicken pies sold = $\frac{5}{6} x \frac{2}{7} = \frac{23}{42}$, *total* = $\frac{253}{23}$ x 42 = 462, *sold* = $\frac{5}{6}$ x 462 = 385
Q13a. 54litre → Water in A = 60 x 60 x 60 = 21,6000, $\frac{1}{4}$ x 216000 = 54,000 = 54*litre*
Q13b. 52.5cm → $\frac{2}{7}$ *of B* = 54 000, $\frac{1}{7}$ *of B* = 54 000 ÷ 2 = 27 000, $\frac{7}{7}$ of B = 27 000 x 7 = 189 000,
Base area of B = 90 x 40 = 3600, Height = 189 000 ÷ 3600 = 52.5
Q14a. 156 → G → $\frac{2}{9} = \frac{6}{27}$, *D* → $\frac{3}{5} = \frac{6}{10}$, *Total units* = 27 + 10 = 37, *Goat* = $\frac{1036}{37}$ x 77 = 156
Q14b. $\frac{9}{4}$ → $1 - \frac{1}{6} = \frac{5}{6}$, *goats remaining* = $\frac{5}{6} x$ 750 = 630, *fraction* = $\frac{630}{280} = \frac{9}{4}$
Q15a. 64km/h →more = 12.8 x 12 = 153.6, Z speed = 153.6 ÷ 3 = 51.2, CL speed = 51.2 + 12.8 =64.
Q15b. 768km → Distance = 64 x 12 = 768km
Q16. 112cm²→ Δ *DEG* + Δ *DBG* = $\frac{7}{12} x$ *960* = 560, Δ *DFG* = $\frac{560-336}{2}$ = 112
Q17a. 82.8 → 3.14 x 20 = 62.8, 62.8 ÷ 2 = 31.4, Perimeter = 31.4 + 31.4 + 10 + 10 = 82.8
Q17b. 1514cm² → Area = 12 x 10 x 10 + 3.14 x 10 x 10 =1514cm².
Q18a. SEE PICTURE . Q18b. 6561 → tILES = 81 X 81 = 6561
Q18c. 7321 → Grey tiles = 121 x 121 + 1 ÷ 2 = 7321

18 The table below shows the number of white and grey tiles used to form the patterns

Pattern Number	Number of grey tiles	Number of white tiles	Total number of tiles
1	2	2	4
2	5	4	9
3	8	8	16
4	13	12	25
5	18	18	36

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CHRISTIAN BROTHERS' SCHOOLS

PRELIMINARY EXAMINATION

2015

PRIMARY 6

MATHEMATICS

PAPER 1

(BOOKLET A)

NAME: _____

CLASS: _____

15 Questions **Total Time for Booklets A and B : 50 min**
20 Marks

Instructions to candidates

- Do not open this booklet until you are told to do so.
- Follow all instructions given at the beginning of each section carefully.
- An Optical Answer Sheet is provided for answers to Questions 1 to 15.
- Do not waste time. If a question is difficult, go on to the next one.
- Answer all questions.
- You are **not** allowed to use a calculator.

This booklet consists of _7_ printed pages.

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Questions **1** to **10** carry 1 mark each. Questions **11** to **15** carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet. [20 marks]

---

1. Round off 58.256 to the nearest tenth.

   (1) 58

   (2) 58.2

   (3) 58.3

   (4) 58.26

2. Which one of the following has the same value as $1\frac{3}{4}$?

   (1) $1 \times \frac{3}{4}$

   (2) $7 \times \frac{1}{4}$

   (3) $1 \div \frac{3}{4}$

   (4) $\frac{3}{4} \div \frac{1}{4}$

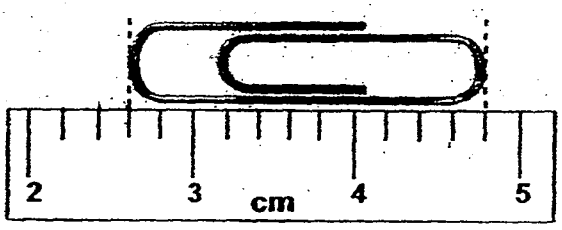
3. What is the length of the paper clip in the figure below?

   (1) 2.2 cm

   (2) 2.4 cm

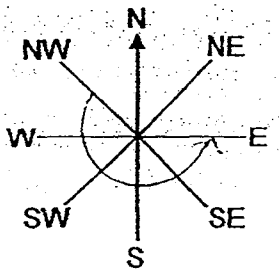
   (3) 4.4 cm

   (4) 4.8 cm



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4. The figure below shows an 8-point compass. John was facing north-west at first. He then turned 225° anti-clockwise. Which direction is he facing now?



(1) North (N)

(2) South (S)

(3) East (E)

(4) West (W)

5. Express 12 km 80 m in metres.

(1) 12.8 m

(2) 1280 m

(3) 12 080 m

(4) 12 800 m

6. Which of the following fractions is closest to 2?

(1) $\frac{5}{3}$

(2) $1\frac{5}{6}$

(3) $2\frac{1}{5}$

(4) $\frac{9}{4}$

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7. Simplify $11m + 10 - 5m - 5 + 2m$.

(1) $8m - 5$

(2) $8m + 5$

(3) $18m + 5$

(4) $4m + 5$

8. Cheryl and Kenny shared some marbles. Cheryl had $\frac{2}{5}$ the number of marbles Kenny had. What was the ratio of the number of marbles Cheryl had to the number of marbles Kenny had to the total number of marbles they had?

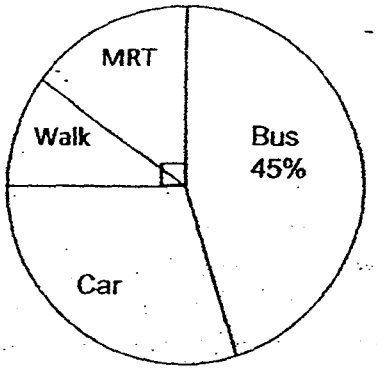
(1) 2 : 3 : 5

(2) 2 : 5 : 7

(3) 5 : 2 : 7

(4) 7 : 5 : 2

9. The pie chart below shows the various modes of transportation used by a group of pupils to go to school every day. What percentage of the pupils go to school by car?



(1) 20%

(2) 25%

(3) 30%

(4) 35%

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10. The distance around a running track is 400 m. Ali took 10 minutes to walk around the running track twice. What was Ali's average walking speed?

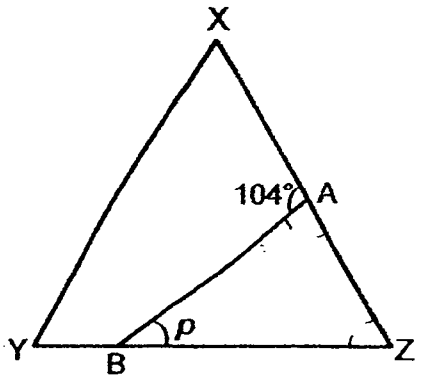
(1) 0.025 m/min

(2) 0.05 m/min

(3) 40 m/min

(4) 80 m/min

11. The figure below shows an equilateral triangle XYZ and a straight line AB. Find $\angle p$.



(1) 28°

(2) 44°

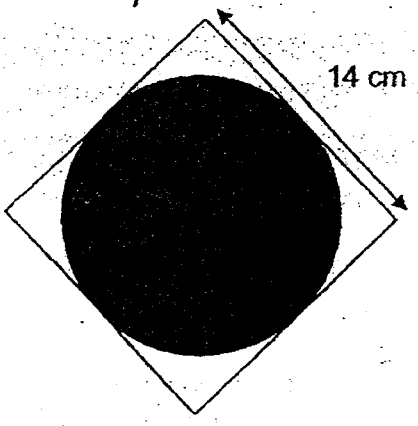
(3) 60°

(4) 76°

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12. The figure shows a circle inside a square. Find the area of the **unshaded** part.

(Take $\pi = \frac{22}{7}$)



(1) 42 cm^2

(2) 44 cm^2

(3) 152 cm^2

(4) 154 cm^2

13. Mrs Lee had $1\frac{1}{6}$ kg of sugar. She bought another $\frac{3}{4}$ kg of sugar. She packed all the sugar equally into bags of $\frac{1}{12}$ kg each. How many bags of sugar did she have?

(1) 5

(2) 2

(3) 11

(4) 23

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14. A rectangular tank was half-filled with water. When 4.5 ℓ of water was added, it became $\frac{4}{5}$ full. What was the height of the tank if its base area was 500 cm^2?

(1) 9 cm

(2) 24 cm

(3) 3 cm

(4) 30 cm

15. There was a group of 80 pupils in the hall. 40% of them were girls. When some more girls joined the group, the percentage of boys decreased to 20%. How many pupils were there in the end?

(1) 96

(2) 160

(3) 192

(4) 240

End of Booklet A

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CHRISTIAN BROTHERS' SCHOOLS

PRELIMINARY EXAMINATION

2015

PRIMARY 6

MATHEMATICS

PAPER 1

(BOOKLET B)

NAME: _____

CLASS: _____

15 Questions **Total Time for Booklets A and B : 50 min**
20 Marks

Instructions to candidates

- Do not open this booklet until you are told to do so.
- Follow all instructions given at the beginning of each section carefully.
- Answer all questions.
- Do not waste time. If a question is difficult, go on to the next one.
- Write your answers in this booklet.
- You are **not** allowed to use a calculator.

BOOKLET	MARKS	
	POSSIBLE	ACTUAL
A	20	
B	20	
TOTAL	40	

This booklet consists of 7 printed pages.

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Questions **16** to **25** carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

16. Use all the digits below to form the **smallest** multiple of 5.

6, 7, 3, 0, 5

Ans : _____

17. Find the value of $6 \div \frac{3}{11}$.

Ans : _____

18. Find the value of 0.609×80.

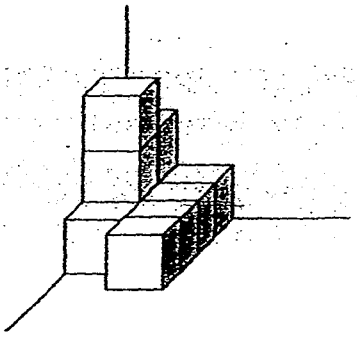
Ans : _____

19. Jane is standing in a queue. She is the 4^{th} person from the front and the 17^{th} person from the back. How many people are there in the queue?

Ans : _____

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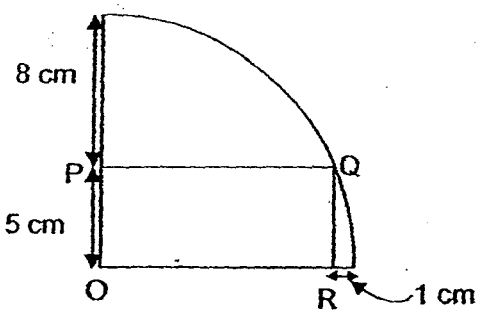
20. The solid below is made up of 1-cm cubes. What is the volume of the solid?



Ans : _____ cm^3

---

21. The figure below is made up of a quadrant and a rectangle, OPQR. Find the perimeter of rectangle OPQR.



Ans : _____ cm

---

22. Tim spent 50 minutes doing his homework before he took a 30-minute break. He then continued with his homework and completed it 30 minutes later. At what time did he start doing his homework if he completed his homework at 18 30? Express your answer using the 24-hour clock.

Ans : _____

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23. The total height of 4 children is 546 cm. One of the children is 150 cm tall. What is the average height of the other 3 children?

Ans : _____ cm

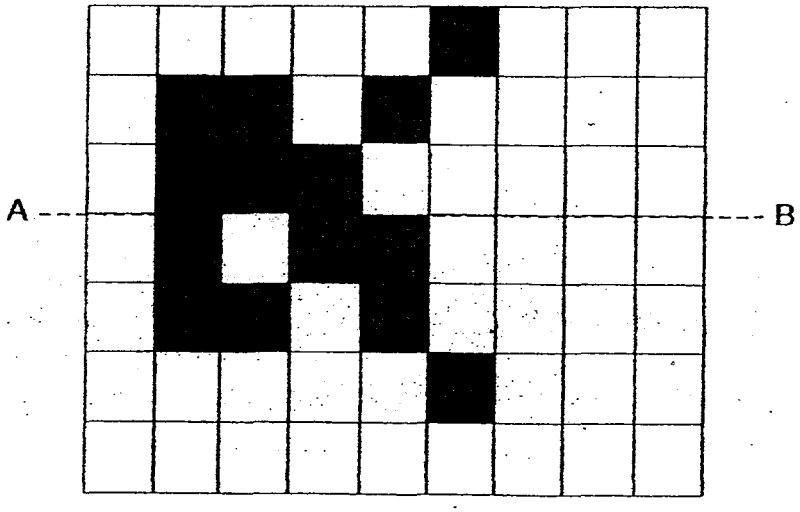
---

24. There are 40 members in a sailing club. There are 8 more male members than female members. What percentage of the members are female?

Ans : _____ %

---

25. The figure below shows 14 shaded squares. Shade 2 more squares to complete the figure so that the dotted line AB is a line of symmetry.



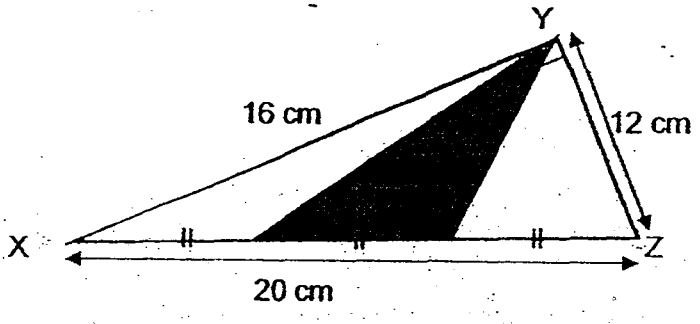
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Questions **26** to **30** carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

26. There are some cows and goats on a farm. $\frac{1}{5}$ of the number of cows is equal to $\frac{5}{8}$ of the number of goats. There are 34 more cows than goats. How many goats are there on the farm?

Ans : _____

27. In the figure below, XYZ is a right-angled triangle. Find the shaded area.

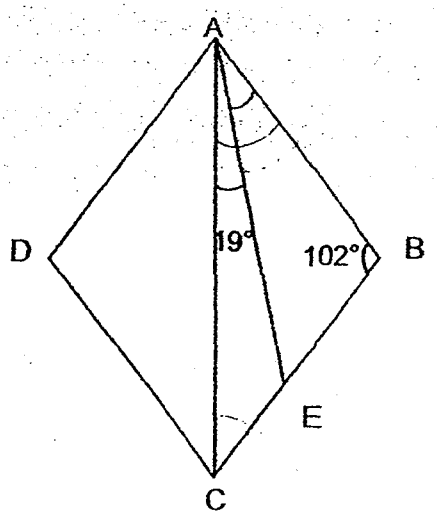


Ans : _____ cm^2

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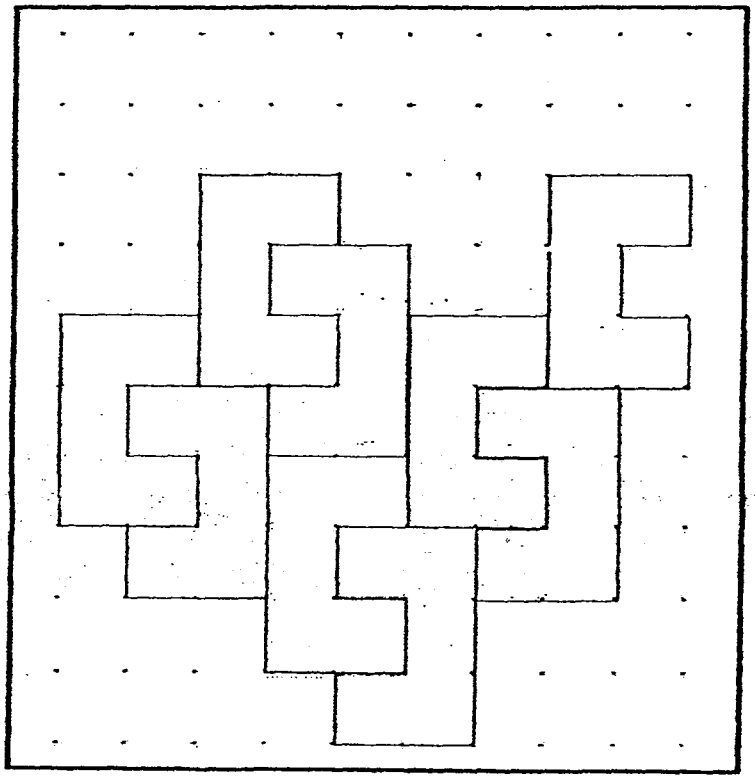
28. In the figure below, ABCD is a rhombus. $\angle ABC = 102°$ and $\angle CAE = 19°$.

Find $\angle EAB$.



Ans : _____ °

29. The pattern in the box below shows part of a tessellation. Extend the tessellation by drawing **two** more unit shapes in the space provided within the box.



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30. The table below shows the registration fee for the various categories in a running competition.

Category	Registration fee per person
Kids' Dash	?
5-km Run	$50
10-km Run	$60

Mr Tan and his family participated in the competition. He and his wife participated in the 10-km and 5-km Run respectively. His two children participated in the Kids' Dash. How much did Mr Tan pay for each child if the average cost of registration for his family was $42.50?

Ans : $_____

End of Paper

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De La Salle School | St. Anthony's Primary | St. Joseph's Institution Junior | St. Stephen's School

CHRISTIAN BROTHERS' SCHOOLS

PRELIMINARY EXAMINATION

2015

PRIMARY 6

MATHEMATICS

PAPER 2

NAME: _____ ( )

CLASS: St _____ 6

18 Questions **Time : 1 h 40 min**

60 Marks

Instructions to candidates

- Do not open this booklet until you are told to do so.
- Follow all instructions given at the beginning of each section carefully.
- Show all working clearly as marks are awarded for correct working.
- Answer all questions.
- Do not waste time. If a question is difficult, go on to the next one.
- Write your answers in this booklet.
- You are allowed to use a calculator.

BOOKLET	MARKS	
	POSSIBLE	ACTUAL
PAPER 1	40	
PAPER 2	60	
TOTAL	100	

PARENT'S SIGNATURE:

This booklet consists of 15 printed pages.

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Questions **1** to **5** carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided.
For questions which require units, give your answers in the units stated. (10 marks)

1.

Cupcakes Promotion

All cupcakes at $2 each

Buy 8 and get 1 free!



Janie paid $80 for some cupcakes. How many cupcakes did she get?

Ans: _____

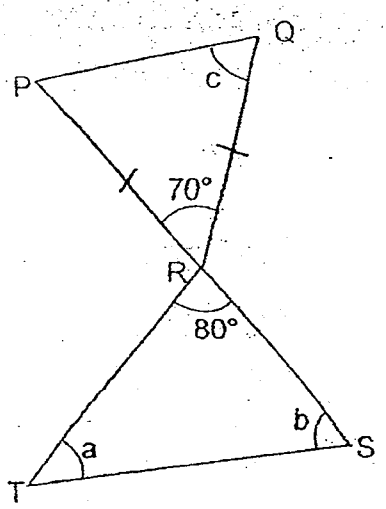
---

2. Mrs Lee had a bottle of oil. She used an equal amount of oil each day.
At the end of the 8th day, she had $\frac{1}{4}$ of the oil left. At the end of the 10th day, she had 110 mℓ of oil left. What was the amount of oil in the bottle at first?

Ans: _____ mℓ

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3. The figure below is not drawn to scale. PQR is an isosceles triangle. PRS is a straight line. ∠PRQ = 70° and ∠TRS = 80°. Find the sum of ∠a, ∠b and ∠c.



Ans: _____ °

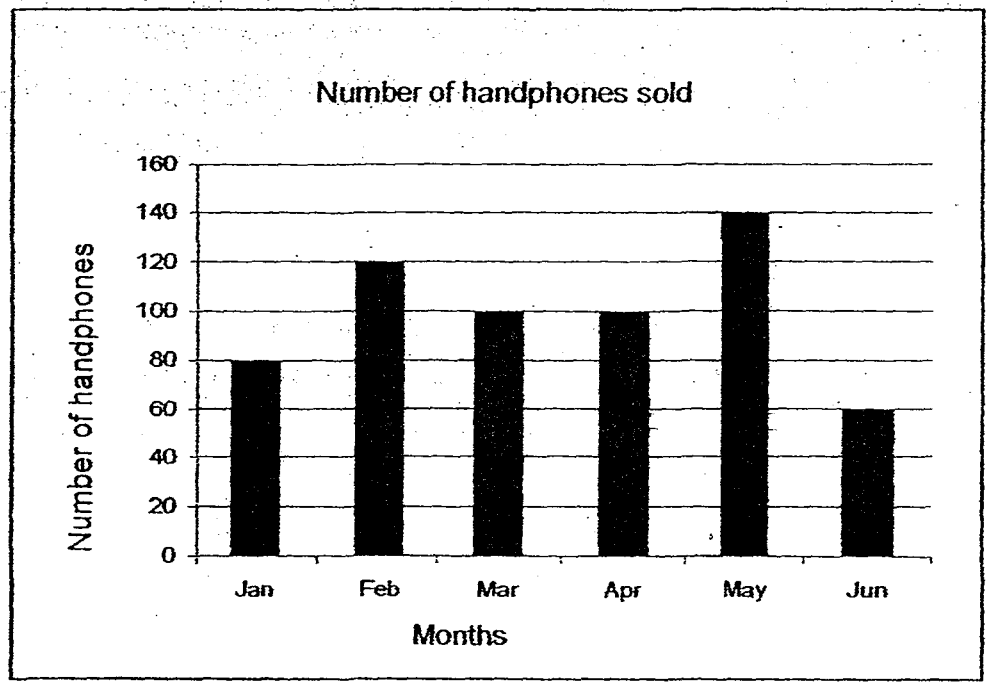
---

4. The ratio of the amount of money Alice had to the amount of money Bobby had was 9 : 16. After Alice gave $8 to Bobby, the ratio of the amount of money she had to the amount of money Bobby had was 1 : 4. How much did Alice have at first?

Ans: $ _____

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5. The bar graph below shows the number of handphones sold over a 6-month period in a shop.



In which month did the shop sell 20% of the total number of handphones?

Ans: _____

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For questions **6** to **18**, show your working clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (50 marks)

---

6. The total age of Linda, Patrick and Don is $15p$ years. Linda is 3 years old. Patrick is three times as old as Don.

   (a) Express Don's age in terms of p.

   (b) If $p = 5$, how old is Patrick?

Ans: (a)_____ [1]

(b)_____ [2]

---

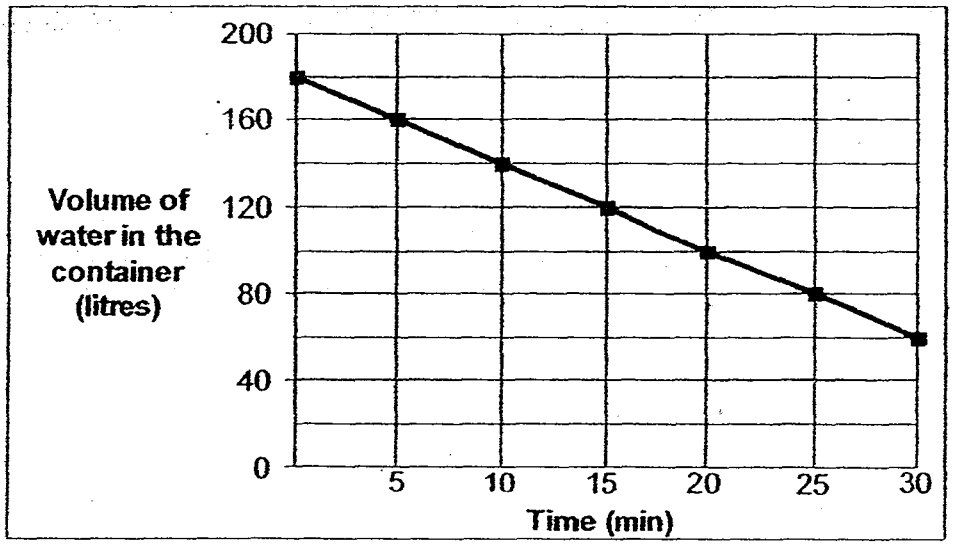
7. A wall needs to be painted. Worker A alone takes 8 hours and Worker B alone takes 12 hours to paint the whole wall. If both workers paint the wall together for 3 hours, what fraction of the wall will be painted? Leave your answer in its simplest form.

Ans: _____ [3]

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8. A container was completely filled with water. Some water in the container was drained using a tap at the bottom of the container. After 30 minutes, the tap was then turned off.

The line graph shows the volume of water in the container over 30 minutes.



(a) How many litres of water flowed out of the container in one minute?

(b) The tap was turned on again to drain water from the container at the same rate as before. How many more minutes did it take for the container to be empty?

Ans: (a)_____ [1]

(b) _____ [2]

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9. A van left Town A for Town B at 10 00 and travelled at an average speed of 55 km/h. At 13 00, a car left Town A for Town B. If the car took 2 h to catch up with the van, find the average speed of the car.

Ans: _____ [3]

---

10. Sophia gets $5 pocket money every day of the week. She spends $3.20 every day from Monday to Friday and saves the rest. She spends $4 a day on Saturdays and Sundays and saves the rest. How many days does Sophia take to save $47.60 if she starts saving on a Monday?

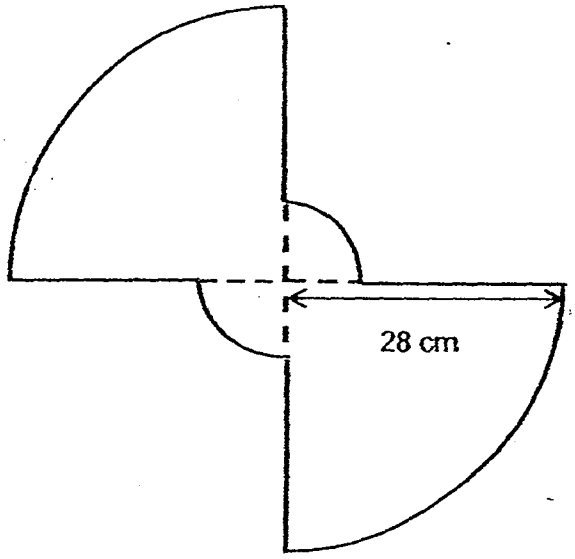
Ans: _____ [3]

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11. The figure is made up of two identical big quadrants and two identical small quadrants. The ratio of the radius of the small quadrant to the radius of the big quadrant is 1: 4. The radius of the big quadrant is 28 cm.

Find the perimeter of the figure.

(Take $\pi = \frac{22}{7}$)



Ans: _____ [4]

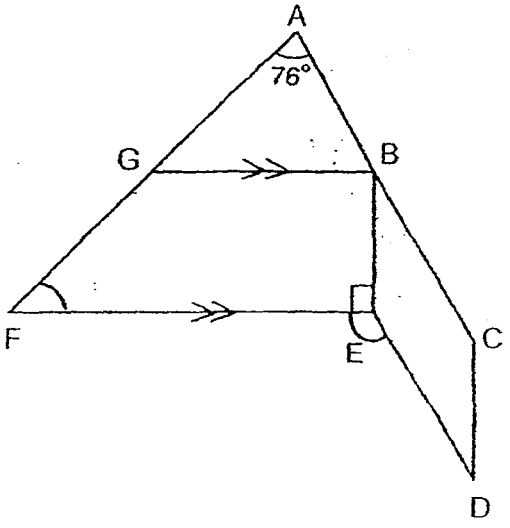
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12. In the figure below, GBEF is a trapezium and BCDE is a parallelogram.

ABC and AGF are straight lines. ∠BED is five times of ∠CBE. ∠FEB is a right angle and ∠FAB = 76°.

(a) Find ∠FED.

(b) Find ∠AFE.



Ans: (a) _____ [2]

(b) _____ [2]

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13. $\frac{1}{6}$ of the people in a hall are girls. The number of boys is $\frac{2}{3}$ of the number of girls. The number of boys is $\frac{1}{4}$ of the number of men. There are 112 more women than girls. How many people are there in the hall?

Ans: _____ [4]

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14. Mr Raja bought a computer for $1512 after a discount of 30%. He also bought a printer at a discounted price of $255 . The total discount for the computer and the printer was $693.

(a) What was the price of the computer before the discount?

(b) What was the percentage discount given for the printer?

Ans: (a)_____ [2]

(b)_____ [2]

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15. At first, Samy, Meili and Gary shared some postcards in the ratio 15 : 8 : 5.

Samy gave $\frac{1}{5}$ of his postcards to Gary while Meili gave 40% of hers to Gary.

Gary also received 190 postcards from his brother. The number of postcards Gary had in the end was three times what he had at first. How many postcards did Samy and Meili have altogether at first?

Ans: _____ [4]

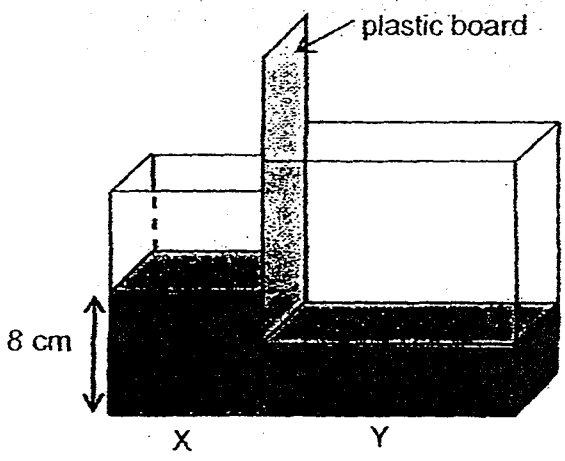
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16. A shopkeeper sold four times as many water bottles as bags. The total amount he collected was $4056. He collected $936 more from the sale of the water bottles than from the sale of the bags. A water bottle cost $18 less than a bag. Find the cost of a bag.

Ans: _____ [5]

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17. The container below is made up of two rectangular tanks, X and Y. They are divided by a plastic board. The base area of tank X is 1400 cm^2 and it contains water up to a height of 8 cm. The base area of tank Y is 1600 cm^2 and it contains 8000 cm^3 of water.



(a) What was the height of the water in tank Y at first?

(b) Joan then removed the plastic board completely. What is the height of the water in the container in the end?

Ans: (a)_____ [1]

(b)_____ [4]

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18. Tom used some banners and flags to decorate the school hall. He used two strings of the same length. He cut the string into equal parts of length 80 cm and to each part he tied two banners as shown in **Figure 1**.

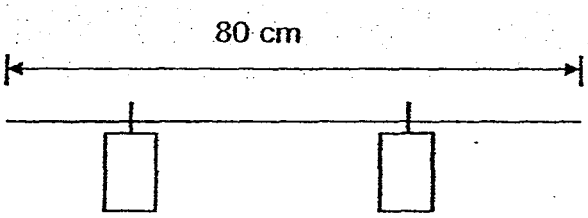


Figure 1

After that, he cut the other string into equal lengths of 1.2 m and to each part he tied small flags as shown in **Figure 2**.

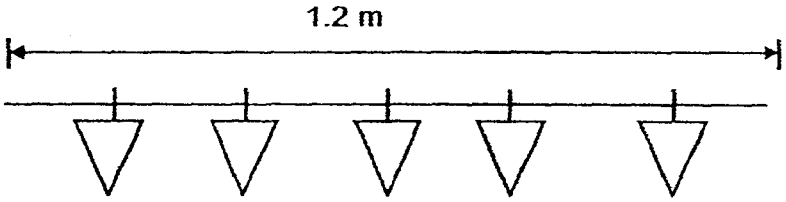


Figure 2

When he finished decorating, he counted 44 more flags than banners.
How many banners were there?

Ans: _____ [5]

END OF PAPER

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EXAM PAPER 2015
LEVEL : PRIMARY 6
SCHOOL : CHRISTIAN BROTHERS' SCHOOL
***SUBJECT* : MATHS**
TERM : PRELIMINARY EXAMINATION

PAPER ONE

Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q 9	Q 10
3	2	1	3	3	2	2	2	3	4
Q 11	Q 12	Q 13	Q 14	Q 15					
2	1	4	4	4					

Q16. 30675 Q17. 22 → $6 \div \frac{3}{11} = 6 \times \frac{11}{3} = 22$ Q18. 48.72 Q19. 20 → 16 + 4 = 20

Q20. $10cm^3$ → 1 x 1 x 1 = 1 , 1 x 10 = 10

Q21. 34cm → 8 + 5 – 1 = 12, 12 x 2 = 24, 5 x 2 = 10, 24 + 10 = 34

Q22. 1640 →

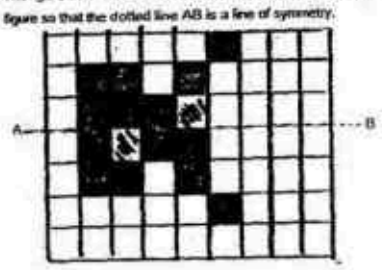
20 min	30 min	30 min	30min
1640	1700	1730	1830

Q23. 132cm → 546 –150 = 396, 396 ÷ 3 = 132

Q24. 40% → 40 – 8 = 32, 32 ÷ 2 = 16, $\frac{16}{40} \times 100 = \frac{160}{4} = 4$

Q25. SEE PICTURE

25. The figure below shows 14 shaded squares. Shade 2 more squares to complete the figure so that the dotted line AB is a line of symmetry.



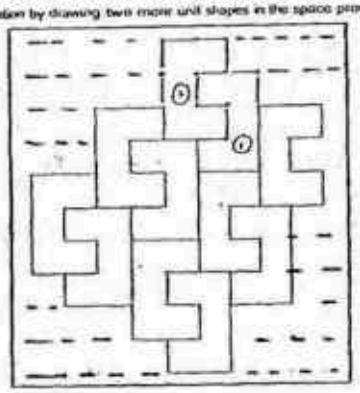
Q26. 16 → 5 x 5=25, 25–8 = 17, 34÷17=2, 2 x 8 = 16

Q27. $32cm^2$ → $\frac{1}{2} \times 12 \times 16 = 96, 96 \div 3 = 32$

Q28. 20° → 180°– 102° = 78°, 78° ÷ 2 = 39°, 39°–19° = 20°

Q29. SEE PICTURE

29. The pattern in the box below shows part of a tessellation. Extend the tessellation by drawing two more unit shapes in the space provided within the box.



Q30. $30. → 42.50 X 4 = 170, 60 + 50 = 110, 170 - 110 = 60, 60÷ 2 = 3

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PAPER TWO

Q1. 45 → No. of $2 cupcakes → 80 ÷ 2 =40, FREE → 40 ÷ 8 = 5, Total → 40 + 5 = 45
Q2. 1760ml → 1U → 110 ÷ 2 = 55, No. of units → 8 x 4 = 32, 32U → 32 x 55 = 1760
Q3. 155° → $\angle C$ → 180° − 70° ÷ 2 = 55°, $\angle A + \angle B$ → 180° − 80° = 100°, *Total* → 100° + 55° = 155°
Q4. $18 → 20−16 = 4, 9−5 = 4, 1U → 8 ÷4 =2, 9U → 2 x 9 = 18
Q5. February → Total → 80 + 120 + 100+100+140=60=600, 20% → 600 x $\frac{20}{100}$ = 120
Q6.a. $(\frac{15p-3}{4})$ *years old.* → *Don* → $(15p - 3) \div 4 = (\frac{15p-3}{4})$
Q6b. 54 years old → P → (15 x 5 -3) ÷ 4 x 3 = 54
Q7. $\frac{5}{8}$ → (A) 1h → $\frac{1}{8}$, (A) 3h → $\frac{3}{8}$, (*B*) → 1*H* → $\frac{1}{12}$, (*B*) 3*H* → $\frac{3}{12}$, 3H→ $\frac{3}{8} + \frac{3}{12} = \frac{5}{8}$
Q8.a. 4litre ,8b. 15min → litres of water flown out → 180 − 60 = 120, 1 min → 120÷30 = 4, (remain) Minutes → 60÷4 = 15.

Q9.137.5km/h → (V)D → 55 x 5 = 275, (C)S → 275 ÷ 2 = 137.5

Q10. 30 → M to F → 5 x 5= 25, (M→F)S →25 - (3.20 x 5) = 9, Sat to Sun →5x2 = 10, (Sat →Sun)S → 10-(4 x 2) = 2 , Savings per week →2+9=11, sets→47.6÷11=4R3.60, Remain→3.60−3.20=0.40, 4 x7 = 28, 28 + 2 = 30

Q11. 194cm → 2 x small *quadrants* → $\frac{1}{2}$ *x* (7 + 7)*x* $\frac{22}{7}$ = 22 , 2 *x big quadrants* →$\frac{1}{2}$ *x* (28 + 28)*x* $\frac{22}{7}$ = 88, 28 − 7 = 21, 4 *sides* → 21 *X* 4 = 84, *Total* →22 + 88 + 84 = 194.

Q12.a. 120° → $\angle CBE$ →180° ÷ 6 = 30°, $\angle BED$ → 30° *x* 5 = 150°, $\angle FED$ → 360° − 150° − 90° = 120°
Q12b. 44° → $\angle ABG$ →180° − 90° − 30° = 60°, $\angle AGB$ →180° − 76° − 60° = 44°, $\angle BGF$ →180° − 44°= 136°, $\angle AFE$ →180°−136°=44°

Q13.1088→ 1U → 112÷2=56, 3 x 6 =18, 18U → 56 x 18 = 1008

Q14a. $2160→ (C) 10% → 1512÷7=216, (C)100%→216x10=2160
Q14b. 15% →(C) Discount → 2160 x $\frac{30}{100}$ = 648, (P) → Discounts → 693 - 648=45, (P) Original →45 + 255 = 300, (P) percent discount → $\frac{45}{300}$ *x* 100 = 15

Q15. 1150→ 150-112= 38, 1U → 190÷38=5, (At first) S + M → 150+80= 230, 230U →230 x 5 = 1150

Q16. $30 → (4056 +936) ÷ 2 = 2496, 2496 - 936 = 1560, 2496 ÷ 4 = 624, 1560 - 624 = 936, 936÷18=52, 1560÷52=30.

Q17a. 5cm Q17b. 6.4cm → (Y) *H* → 8000 ÷ 1600=5, (X) *water* → 8 X 1400 =11200, Total→11200 +8000=19200, Total → 1400+1600= 3000 base area, H→19200÷3000=6.4

Q18. 66 → 120cm and 80cm first common multiple →240, 2 strings →5 X 2 = 10, 3 strings →2 x 3 = 6, Difference → 10−6=4, sets→44÷4=11, B→6x11=66

PAGE 2 - THE END

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