

# METHODIST GIRLS' SCHOOL

Founded in 1887



## CONTINUAL ASSESSMENT 2014 PRIMARY 5 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 5. \_\_\_\_\_

Date: 4 March 2014

This booklet consists of 7 printed pages including this page.

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)

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1 In 8 352 917, the digit 3 is in the \_\_\_\_\_ place.

- (1) hundreds
- (2) thousands
- (3) ten thousands
- (4) hundred thousands

2 The price of a camera is \$3 072. Round off the price to the nearest hundred dollars.

- (1) \$3 000
- (2) \$3 070
- (3) \$3 100
- (4) \$4 000

3  $110\,240 = 11 \times \square + 200 + 40$

What is the missing number in the box?

- (1) 100
- (2) 1 000
- (3) 10 000
- (4) 100 000

4. How many sixths are there in  $2\frac{1}{3}$ ?

- (1) 7
- (2) 2
- (3) 13
- (4) 14

5

$$2 - \frac{\square}{5} = \frac{4}{5}$$

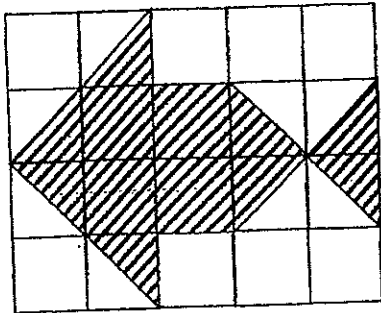
What is the missing number in the box?

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

6 Express  $4\frac{3}{8}$  as a decimal.

- (1) 0.375
- (2) 0.380
- (3) 4.375
- (4) 4.380

- 7 The figure below is made up of unit squares.



What fraction of the whole figure is unshaded?

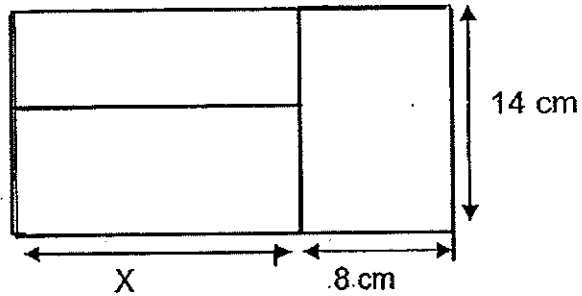
- (1)  $\frac{1}{5}$   
(2)  $\frac{2}{5}$   
(3)  $\frac{3}{5}$   
(4)  $\frac{4}{5}$

8  $5\frac{5}{9} = 4 + \square + \frac{2}{3}$

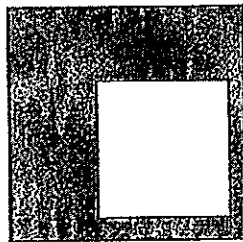
What is the missing fraction in the box?

- (1)  $\frac{1}{9}$   
(2)  $\frac{5}{9}$   
(3)  $\frac{8}{9}$   
(4)  $\frac{14}{9}$

- 9 The figure below is made up of three rectangles. It has a perimeter of 80 cm. What is the value of X?



- (1) 18 cm  
(2) 29 cm  
(3) 36 cm  
(4) 58 cm
- 10 The figure is formed by 2 squares. The perimeter of the small square is 36 cm and the area of the shaded part is  $90 \text{ cm}^2$ . Find the area of the big square.



- (1)  $126 \text{ cm}^2$   
(2)  $145 \text{ cm}^2$   
(3)  $171 \text{ cm}^2$   
(4)  $180 \text{ cm}^2$

11 What is the value of  $30 + 90 \div (65 - 35) \times 4$ ?

- (1) 1
- (2) 16
- (3) 42
- (4) 132

12 63 blue and white beads are packed into 9 packets. If there are 3 blue beads in each packet, how many white beads are there altogether?

- (1) 27
- (2) 36
- (3) 42
- (4) 60

13 A tart costs \$2. A box of 6 tarts is sold at a special price of \$9. If Sarah has \$32, what is the maximum number of tarts she can buy?

- (1) 16
- (2) 18
- (3) 20
- (4) 23

14 Jane bought  $3\frac{3}{5}$  m of ribbon. She used  $1\frac{2}{3}$  m to tie a present. How many metres of ribbon had she left?

- (1)  $\frac{14}{15}$
- (2)  $1\frac{14}{15}$
- (3)  $2\frac{1}{15}$
- (4)  $2\frac{1}{2}$

- 15 Jane has 2 similar containers A and B. Container A is filled with  $\frac{3}{4}$  litres of water and Container B is filled with  $\frac{3}{12}$  litres of water. How much water must be poured from Container A into Container B so that the 2 containers have the same amount of water?

- (1)  $\frac{1}{4}$  litres
- (2)  $\frac{5}{12}$  litres
- (3)  $\frac{1}{2}$  litres
- (4)  $\frac{3}{4}$  litres

# METHODIST GIRLS' SCHOOL

Founded in 1887



## CONTINUAL ASSESSMENT 2014 PRIMARY 5 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 5. \_\_\_\_\_

Date: 4 March 2014

Paper 1 Booklet A	/ 20
Paper 1 Booklet B	/ 20
Paper 2	/ 40
<b>TOTAL</b>	<b>/ 80</b>

This booklet consists of 8 printed pages including this page.



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Questions 16 to 25 carry 1 mark each. Questions 26 to 30 carry 2 marks each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

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- 16 Write two million, fifty-one thousand and nine in figures.

Ans: \_\_\_\_\_

- 17 The product of two numbers is 56 000. If one of the numbers is 700, what is the other number?

Ans: \_\_\_\_\_

- 18 What is the value of the digit 2 in 3 258 147?  
Give your answer in figures.

Ans: \_\_\_\_\_

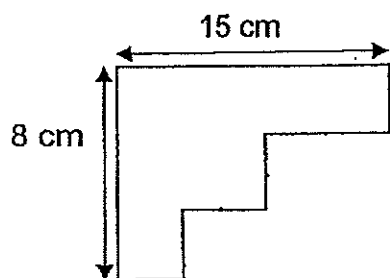


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- 19 What is the greatest 6-digit even number smaller than 600 000 that can be formed with the digits 1, 0, 5, 6, 7, 8

Ans: \_\_\_\_\_

- 20 Find the perimeter of the figure below.



Ans: \_\_\_\_\_ cm

- 21 The three letters below represent three different whole numbers. When two of these numbers are added at a time, the sums are 72, 84 and 96. If the smallest number is 30, what is the largest number?

Ans: \_\_\_\_\_

22

$$\frac{4}{6} = \frac{\square}{15}$$

What is the missing number in the box?

Ans: \_\_\_\_\_

23 Find the sum of  $5\frac{3}{4}$  and  $2\frac{2}{7}$

Ans: \_\_\_\_\_

24 Alice bought  $5\frac{1}{2}$  m of ribbon. She gave  $\frac{3}{4}$  m of the ribbon to her friend. What was the length of the ribbon she had left ?

Ans: \_\_\_\_\_ m

25

$$2.6 - \square =$$

What is the missing value in the box?

Do not write  
in this space

Ans:

Do not write  
in this space

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)

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- 26 Amy and Betty had 280 pens. After Amy bought 15 more pens, she had 4 times as many pens as Betty. How many pens did Amy have at first?

Ans: \_\_\_\_\_

- 27 Rosie had three times as many stickers as Vicky. After Rosie gave some of her stickers to Vicky, they had the same number of stickers. Vicky then bought another 20 stickers from a bookstore. She now has twice as many stickers as Rosie. How many more stickers did Rosie have than Vicky at first?

Ans: \_\_\_\_\_

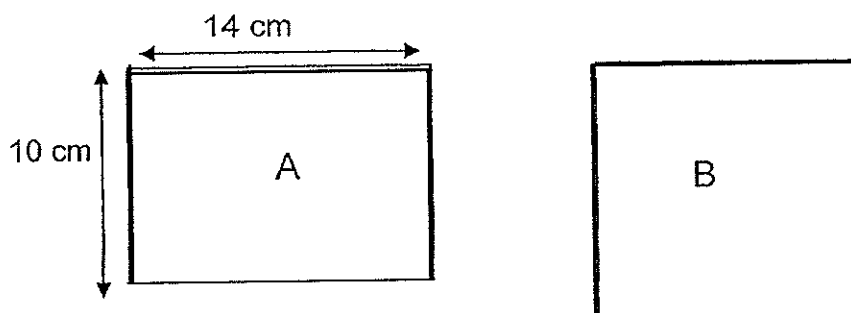
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- 28 Lilian drinks  $4\frac{1}{3}$  litres of water per day. Wen Ling drinks  $1\frac{1}{6}$  litres less water than Lilian per day. How many litres of water will they drink altogether in a day?

Ans: \_\_\_\_\_ l

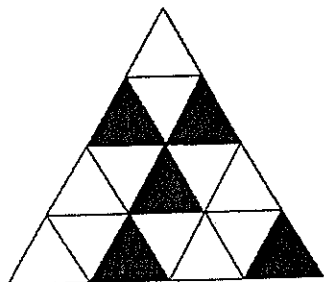


- 29 Two pieces of wire of the same length were used to form Rectangle A and Square B as shown below. Find the area of Square B.



Do not write  
in this space

- 30 How many more triangles must be shaded so that  $\frac{3}{8}$  of the figure is shaded?



Ans: \_\_\_\_\_

END OF PAPER



# METHODIST GIRLS' SCHOOL

Founded in 1887



## CONTINUAL ASSESSMENT 2014 PRIMARY 5

### MATHEMATICS

### PAPER 2

Total Time: 1 h <sup>15</sup>~~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.

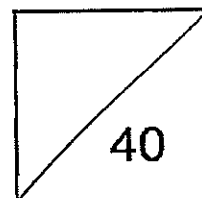
Write your answers in this booklet.

The use of an approved calculator is expected, where appropriate.

Name: \_\_\_\_\_ ( )

Class: Primary 5. \_\_\_\_\_

Date: 4 March 2014



This booklet consists of 9 printed pages including this page.

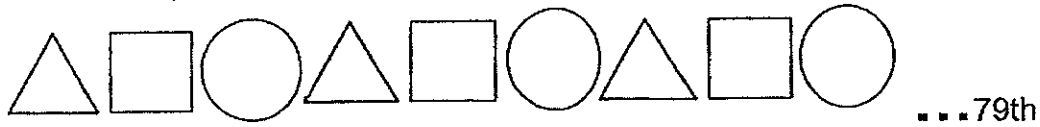


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Questions 1 to 3 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (6 marks)

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1 See the pattern below.



What is the 79<sup>th</sup> shape in the pattern?

Ans: \_\_\_\_\_

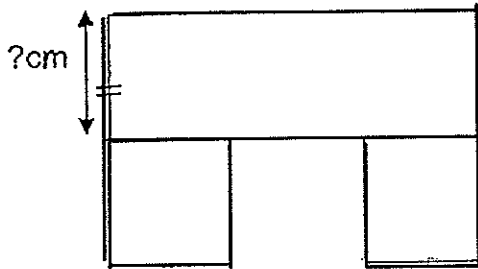
2 I am a 4-digit number.  
The digit 9 is in the hundreds place.  
The value of the digit 6 is 6000.  
The digit 3 is in the ones place.  
The sum of all my digits is 25.  
What number am I?

Ans: \_\_\_\_\_



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in this space

- 3 The figure is made up of 1 rectangle and 2 identical squares. The area of each square is  $64 \text{ cm}^2$ . What is the area of the figure?



Ans: \_\_\_\_\_  $\text{cm}^2$



For questions 4 to 13, show your working clearly and write your answers in the space provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question.

(34 marks)

- 4 The table shows the charges for the rental of bicycles.

First hour	\$5.00
Every additional half hour or part thereof	\$1.50

Nicole rented a bicycle from 8.30 am to 10.45 am. How much did she have to pay for the rental of the bicycle?

Ans: \_\_\_\_\_ [3]

- 5 Some nails are placed in a row at an equal distance apart from each other. The distance between the 1<sup>st</sup> and 5<sup>th</sup> nail is 200 cm. If the distance between the 1<sup>st</sup> and last nail is 800 cm, how many nails are there in the row altogether?

Ans: \_\_\_\_\_ [3]

Do not write  
in this space

- 6 Stella saved \$84 less than Jenny. After Stella donated  $\frac{2}{5}$  of her money to charity and Jenny spent  $\frac{2}{3}$  of her money, they had the same amount of money left. How much money did Jenny have at first?

Ans: \_\_\_\_\_ [3]

- 7 Peter packed 56 kg of flour into 1 big bag and 7 small bags of the same size.

The big bag contained  $\frac{5}{8}$  of the flour.

What was the mass of the flour in each small bag?

Ans: \_\_\_\_\_ [3]

Do not write  
in this space

- 8 Siti read  $\frac{1}{4}$  of a story book on Saturday and  $\frac{5}{8}$  of it on Sunday.  
If she had 6 more pages left to read, how many pages were there in the storybook?

Ans: \_\_\_\_\_ [3]

- 9 Jane, Catherine and Tommy are cousins. Catherine is 5 years older than Jane. Tommy is twice as old as Jane. The sum of their ages is 41 years. How much older is Tommy than Catherine?

Ans: \_\_\_\_\_ [3]



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- 10 A community centre paid \$25 272 for 9 computers and 6 notebooks. 3 computers cost as much as 2 notebooks
- (a) What was the cost of a computer?
  - (b) How much did he pay for 2 notebooks?

Ans:(a) \_\_\_\_\_ [2]

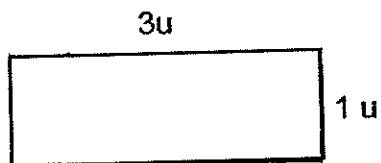
(b) \_\_\_\_\_ [2]

Do not write  
in this space

- 11 There are 4 times as many as 50-cent coins as 10-cent coins in a bag. The total value of the coins is \$63. How many coins are there altogether?

Ans: \_\_\_\_\_ [4]

- 12 The perimeter of a rectangular pool is 168 m. Its breadth is  $\frac{1}{3}$  of its length. Mr Lim wants to tile the base of the pool at \$30 per  $\text{m}^2$ . How much must he pay altogether?



Ans: \_\_\_\_\_ [4]

- 13 Bag A and Bag B had the same amount of rice at first. After 20kg of the rice in Bag A was used and 112 kg of rice was added to Bag B, the mass of the rice in Bag A was  $\frac{1}{4}$  of the mass of rice in Bag B

- (a) How much rice did Bag B have in the end?  
(b) What was the total mass of rice in Bag A and Bag B at first?

Ans: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [2]

**END OF PAPER**



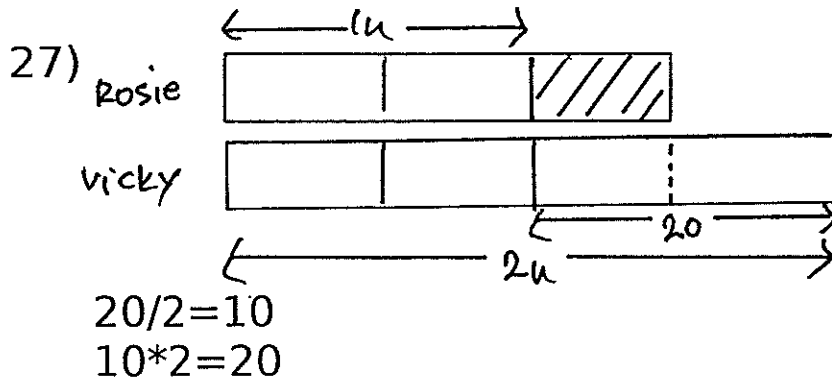
Methodist Girls' School  
Continual Assessment 2014

Primary 5

- 1) 4
- 2) 3
- 3) 3
- 4) 4
- 5) 4
- 6) 3
- 7) 3
- 8) 3
- 9) 4
- 10) 3
- 11) 3
- 12) 2
- 13) 3
- 14) 2
- 15) 1
- 16) 2051009
- 17) 80
- 18) 200 000
- 19) 587 610
- 20) 46 cm
- 21) 54
- 22) 10
- 23)  $\frac{8}{1/28}$
- 24)  $\frac{4}{3/4m}$
- 25) 1.1



26)  $280+15=295$   
 $295/5=59$   
 $59*4=236$   
 $236-15=221$  pens



28)  $4\frac{1}{3}-\frac{1}{16}=\frac{3}{16}$   
 $4\frac{1}{3}+\frac{3}{16}=\frac{7}{16}$  litres

29)  $14*2=28$   
 $10*2=20$   
 $28+20=48$   
 $48/4=12$   
 $12*12=144$  sq cm

30)  $\frac{3}{8}*16=6$   
 $6-5=1$  more triangle

**Paper 2**

1)  $79/3=26$  R1  
 Multiples of 3 is a circle. Since 26 sets of 3 shapes give 78, ie  
 Position 78 is a circle. Hence 79th shape is a triangle.

2)  $9+6+3=18$   
 $25-18=7$   
 Hence 6973

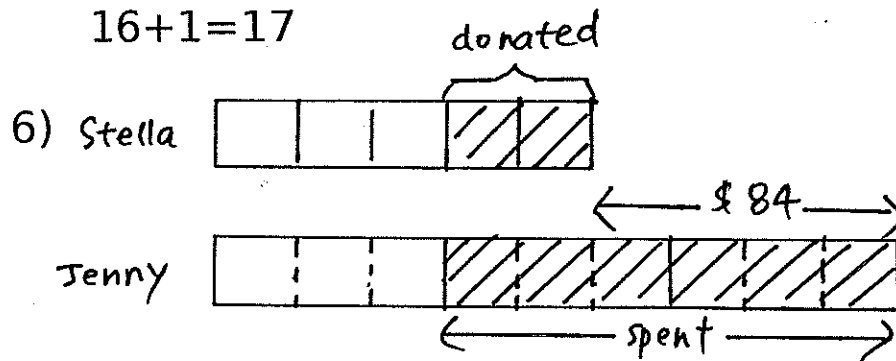
3)  $64=8*8$   
 $8*3=24$  (length of rectangle)  
 Area of rectangle= $24*8=192$  sq cm  
 Total area= $192+64+64=320$  sq cm





4)  $08\ 30 \rightarrow 10\ 45$  is 2h 15min  
 $2\text{h } 15\text{min} - 1\text{h} = 1\text{h } 15\text{min}$   
 $1.50 * 3 = 4.50$   
 $4.50 + 5 = \$9.50$

5)  $200/4 = 50$   
 $800/50 = 16$   
 $16 + 1 = 17$



$84/4 = 21$   
 $21 * 9 = \$189$

7)  $56/8 = 7$   
 $7 * 5 = 35$   
 $56 - 35 = 21$   
 $21/7 = 3\text{ kg}$

8)  $1/4 + 5/8 = 7/8$   
 $8 * 6 = 48$

9)  $41 - 5 = 36$   
 $36/4 = 9$   
 $9 - 5 = 4\text{ years older}$

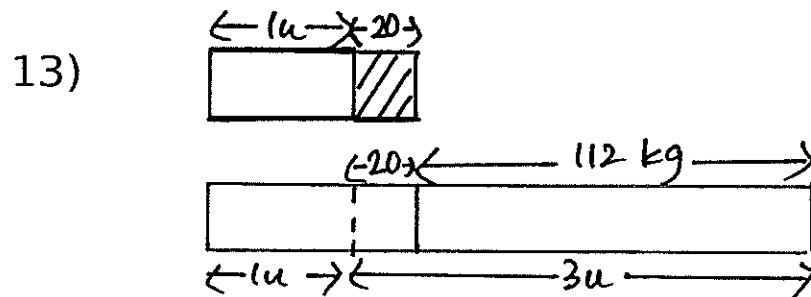
10) 2 notebooks = 3 computers  
 So 6 notebooks = 9 computers  
 Hence, 18 computers cost \$25 272

a)  $\$25\ 272/18 = \$1404$  (cost of 1 computer)  
 b)  $3 * 1404 = \$4212$  (cost of 2 notebooks)



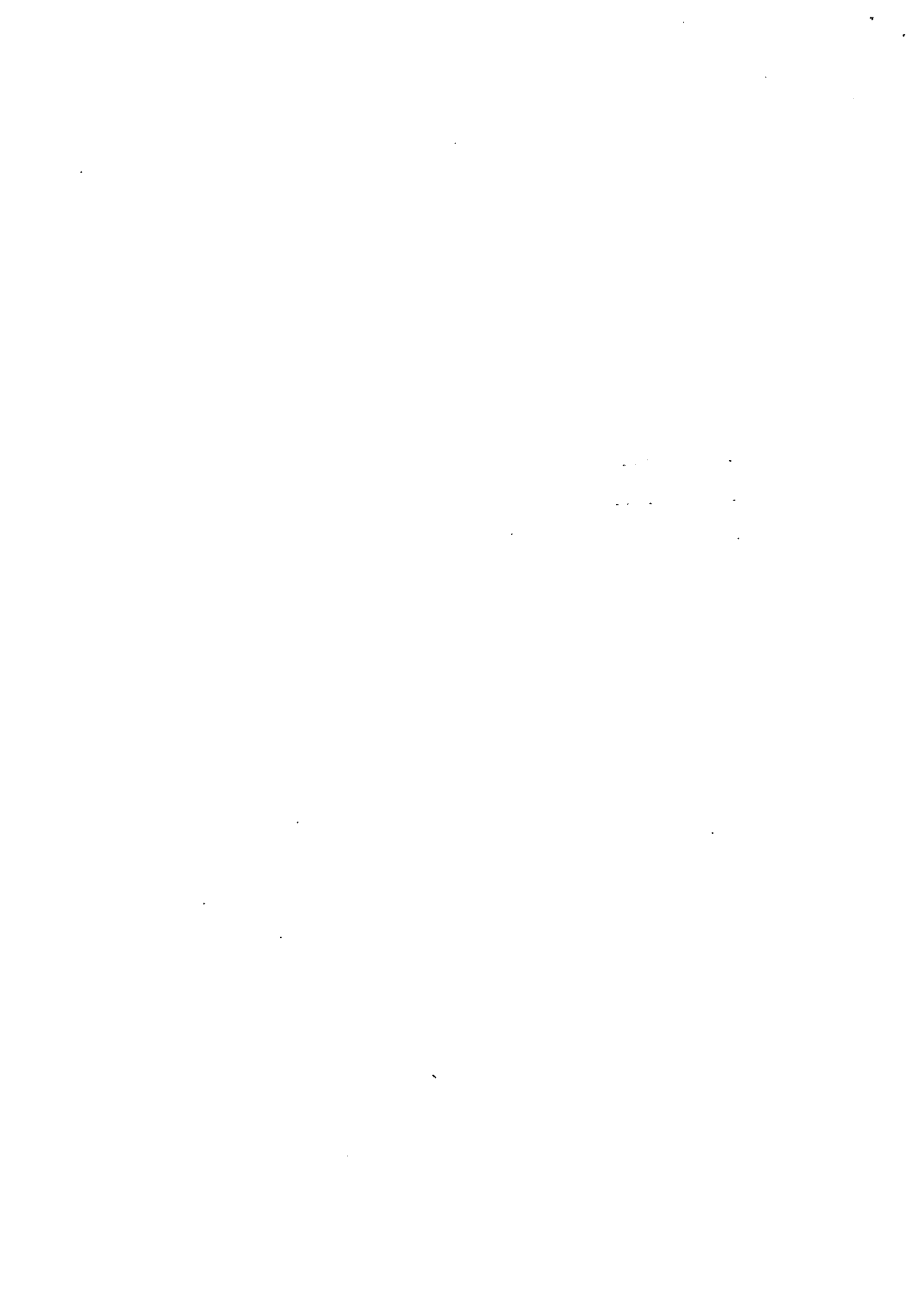
11)  $50c : 10c$   
 $4 : 1$   
 $4 * 0.50 = \$2$   
 $\$2 + \$0.10 = \$2.10$   
 $63 / 2.10 = 30$   
 $4 + 1 = 5$   
 $5 * 30 = 150$  coins

12)  $168 / 8 = 21$   
 $21 * 3 = 63$   
 $63 * 21 = 1323$   
 $1323 * 30 = \$39690$



a)  $112 + 20 = 132$   
 $132 / 3 = 44$   
 $44 + 132 = 176 \text{ kg}$

b)  $44 + 20 = 64$   
 $64 * 2 = 128 \text{ kg}$





NAN HUA PRIMARY SCHOOL  
CONTINUAL ASSESSMENT 1 – 2014  
PRIMARY 5

MATHEMATICS

Paper 1

Section A: 15 Multiple Choice Questions ( 20 marks )

Section B: 15 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 the calculator for Paper 1.

**Marks Obtained**

Paper 1	/ 40
Paper 2	/ 60
Total	/ 100

Name : \_\_\_\_\_ (       )

Class : \_\_\_\_\_

Date : 6 March 2014

Parent's Signature : \_\_\_\_\_

**Section A (20 marks)**

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) and shade on the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

---

1. How many hundreds are there in 390 000?

- (1) 39
- (2) 390
- (3) 3 900
- (4) 39 000

2. Round off 67 823 to the nearest thousand.

- (1) 67 000
- (2) 67 800
- (3) 68 000
- (4) 68 800

3. What is the value of  $128 + (36 - 12) \div 4 \times 2$ ?

- (1) 131
- (2) 140
- (3) 158
- (4) 268

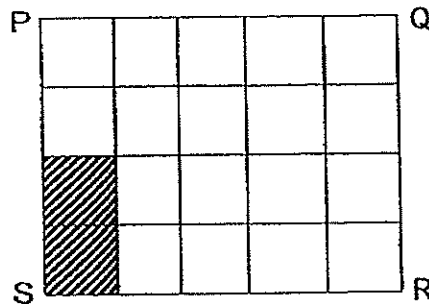
4. 6 ones, 4 tenths and 9 thousandths is \_\_\_\_\_

- (1) 0.649
- (2) 6.049
- (3) 6.409
- (4) 6.490

5. Find the value of  $\frac{3}{5} + \frac{1}{4}$ .

- (1)  $\frac{3}{20}$
- (2)  $\frac{4}{20}$
- (3)  $\frac{4}{9}$
- (4)  $\frac{17}{20}$

6. Rectangle PQRS below is divided into 20 equal squares. How many more squares must be shaded so that  $\frac{3}{4}$  of rectangle PQRS is shaded?



- (1) 12
- (2) 13
- (3) 14
- (4) 15

7. Express  $5\frac{3}{4}$  as a decimal.

(1) 5.25

(2) 5.34

(3) 5.43

(4) 5.75

8. How many ninths are there in  $2\frac{2}{3}$ ?

(1) 6

(2) 8

(3) 24

(4) 72

9. 23 056 m = \_\_\_\_\_ km

(1) 2.3056

(2) 23.056

(3) 230.56

(4) 2305.6

10. Mr Lim bought a television set. He paid \$75 each month for 20 months. If he still had \$300 left to pay, how much did the television set cost?

(1) \$1 200

(2) \$1 500

(3) \$1 800

(4) \$2 100



11. Mrs Koh gave  $\frac{3}{8}$  of her pineapple tarts to her sister and  $\frac{1}{2}$  of the remaining to her mother. What fraction of the pineapple tarts had she left?

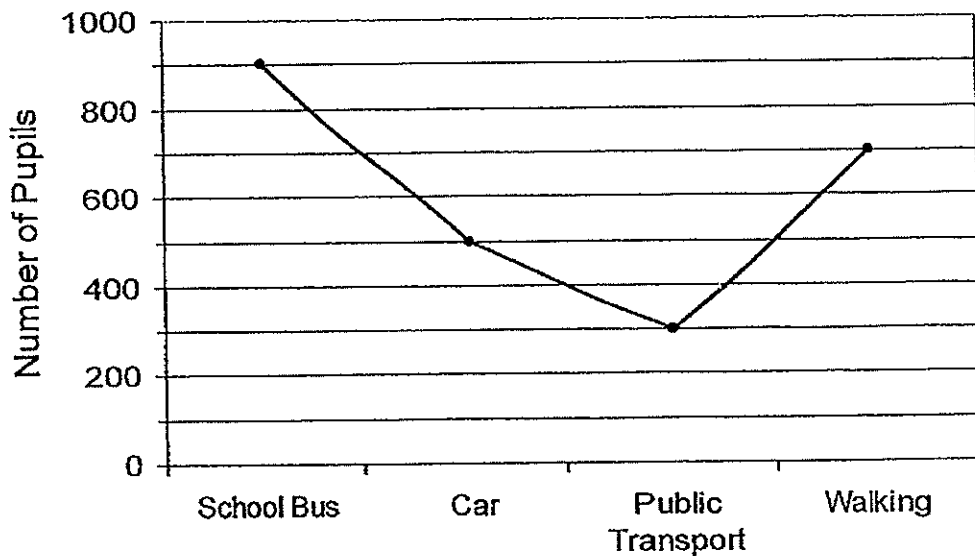
(1)  $\frac{3}{16}$

(2)  $\frac{5}{16}$

(3)  $\frac{9}{16}$

(4)  $\frac{11}{16}$

12. The line graph below shows the number of pupils coming to school using different modes of transport.



How many pupils travel to school by school bus and walking?

(1) 1 600

(2) 1 400

(3) 1 200

(4) 1 000

13.  $\frac{1}{4}$  of the beads in a box are blue.  $\frac{1}{3}$  of the blue beads are small. If there are 700 small blue beads, how many beads are there altogether in the box?

- (1) 1 200
- (2) 2 450
- (3) 4 900
- (4) 8 400

14. Heidi is 41 years old and her son is 17 years old now. How many years ago was she 3 times as old as her son?

- (1) 5
- (2) 7
- (3) 3
- (4) 9

15. A rectangle ABCD is divided into 6 equal parts. The total area of the shaded parts is  $12 \text{ cm}^2$ . Both the length and breadth of rectangle ABCD are even whole numbers. What is the perimeter of rectangle ABCD?



- (1) 26 cm
- (2) 36 cm
- (3) 40 cm
- (4) 74 cm

**Section B (20 marks)**

Questions 16 to 25 carry 1 mark each. Questions 26 to 30 carry 2 marks each.  
For each question from 26 to 30, show your workings clearly in the space below it and write your answer in the space provided. Give your answers in the units stated.

16. Write 350 094 in words.

Ans: \_\_\_\_\_

\_\_\_\_\_

17.  $0.28 = \frac{7}{\boxed{?}}$

Ans: \_\_\_\_\_

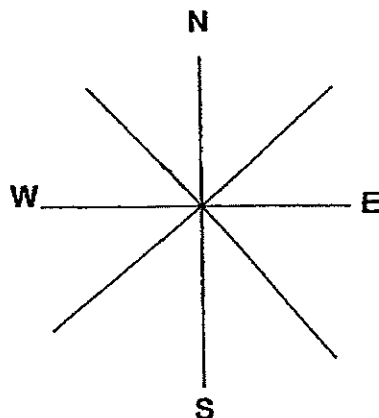
\_\_\_\_\_

18. What is the greatest whole number that gives 570 when rounded off to the nearest ten?

Ans: \_\_\_\_\_

\_\_\_\_\_

19. Glen is facing north-west now.  
He makes a  $135^\circ$  anti-clockwise turn. In which direction is he facing now?



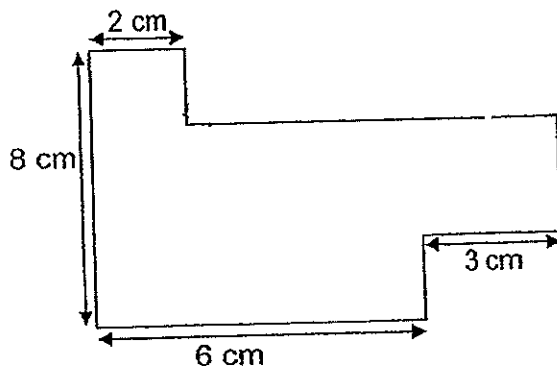
Ans: \_\_\_\_\_

\_\_\_\_\_

24. A piece of ribbon was  $\frac{3}{5}$  m long. Jeanie bought 6 such ribbons. What was the total length of ribbon which Jeanie bought? Give your answer as a mixed number.

Ans: \_\_\_\_\_ m

- 
25. In the figure below, (not drawn to scale) all the straight lines meet at right angles. Study it carefully and find its perimeter.



Ans: \_\_\_\_\_ cm

- 
26. Jean had \$685 and Mindy had \$943. How much money must Mindy give to Jean so that she would have \$50 more than Jean?

Ans: \$ \_\_\_\_\_

27. There are 2065 pupils in a school.  $\frac{4}{7}$  of the pupils are girls. There are 5 times as many girls as the teachers in the school. How many teachers are there?

Ans: \_\_\_\_\_

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28. Adrian and Tim had the same amount of money. When Adrian received another \$360 from his father, he had 4 times as much money as Tim. How much money did the two boys have together at first?

Ans: \$ \_\_\_\_\_

---

29. Ashley wanted to knit a scarf 225 cm long. On Monday, she started to knit  $\frac{1}{5}$  of the length. From Tuesday onwards, she would always knit 30 cm more than the previous day. How many days will she take to complete knitting the scarf?

Ans: \_\_\_\_\_ days

---

30. Anthony had a box of oranges. The number of oranges he had was more than 40 but less than 70. If Anthony packed the oranges in bags of 9, he would be short of one. If he packed them in bags of 5, he would have 2 leftover. How many oranges did he have?

Ans: \_\_\_\_\_ oranges

---

— End of Paper 1 —



**NAN HUA PRIMARY SCHOOL  
CONTINUAL ASSESSMENT 1 – 2014  
PRIMARY 5**

**MATHEMATICS**

**Paper 2**

**Total Time for Paper 2: 1 hour 40 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 and show your workings clearly.
5. You are allowed to use a calculator.

**Marks Obtained**

<b>Total</b>		<b>/ 60</b>
--------------	--	-------------

**Name :** \_\_\_\_\_ (            )

**Class :** \_\_\_\_\_

**Date : 6 March 2014**

**Parent's Signature :** \_\_\_\_\_

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. In the number pattern below, what is the missing number in the box?

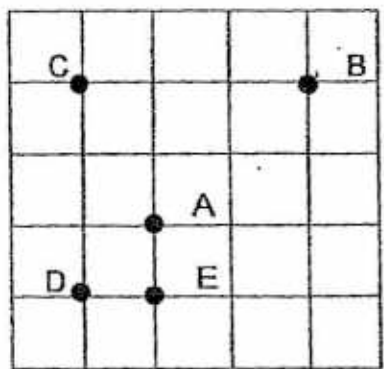
1, 4, 9, 16,  36

Answer: \_\_\_\_\_ [2]

2. 1 kg of tomatoes is sold for \$2 at a market. What is the price of  $\frac{4}{5}$  kg of tomatoes? Give your answers in cents.

Answer: \_\_\_\_\_ ¢ [2]

3. Refer to the grid and compass below and find the missing letter in the box.

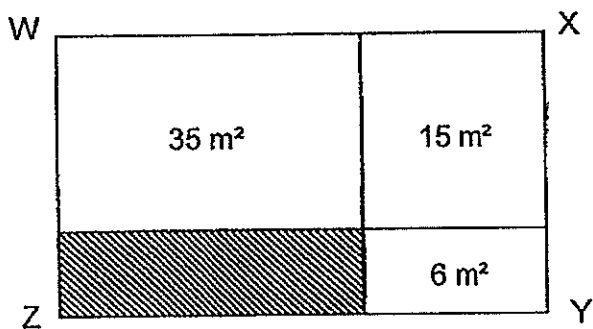


Point  is north-east of Point A.

Answer: \_\_\_\_\_ [2]



4. Rectangle WXYZ below (not drawn to scale) is made up of 4 rectangles. The measurements of each side of the rectangle WXYZ is a whole number. Find the area of the shaded part.



Do not write in this space

Answer: \_\_\_\_\_  $\text{m}^2$  [2]

5. Ten similar seeds were planted along a straight line at equal distance apart. The distance between the first and the fifth seed was 10 m. What was the distance between the first seed and the tenth seed?

Answer: \_\_\_\_\_ m [2]

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 the brackets [ ] at the end of each question or part question. [50 marks]

Do not write in this space

6. Files are sold at 5 for \$4 and notebooks are sold at 3 for \$5. Lily bought an equal number of files and notebooks for \$148. How many notebooks did she buy?

Answer: \_\_\_\_\_ [3]

7. Royce had \$230 more than Matthew. When Matthew gave \$55 to Royce, Royce had 5 times as much money as Matthew. How much money had Matthew at first?

Answer: \_\_\_\_\_ [3]

8. Lydia was given 380 tickets and Amelie was given 500 tickets to sell. After selling an equal number of tickets, Amelie had 4 times as many tickets left as Lydia. How many tickets did each of them sell?

Do not write  
in this space

Answer: \_\_\_\_\_ [3]

9. Study the pattern below form by identical cubes.  
Which figure will be formed by 23 such cubes?

Figure 1



Figure 2

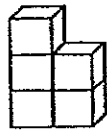


Figure 3



Answer: \_\_\_\_\_ [3]

10. On a farm, there are some pigs and ducks. They have a total of 130 eyes and 160 legs. How many ducks are there?

Do not write  
in this space

Answer: \_\_\_\_\_ [3]

11. Mary had a box of blue, yellow, red and green ribbons.  $\frac{1}{3}$  of the ribbons were blue and  $\frac{1}{2}$  of the ribbons were yellow. After removing all the blue and yellow ribbons, Mary found that  $\frac{1}{2}$  of the ribbons left in the box were red.
- (a) What fraction of the ribbons that Mary had were red?
- (b) If Mary had 27 more blue ribbons than red ribbons, how many ribbons did Mary have in all?

Answer: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [2]

12. Jacky and Michael saved \$240 altogether. Keith and Jacky saved \$90 altogether. Michael's savings was 6 times as much as Keith's savings. What was the total savings of the three boys?

Do not write  
in this space

Answer: \_\_\_\_\_ [4]

13. Kelvin had some 10-cent and 50-cent coins in his savings bank. He had 8 more 10-cent coins than 50-cent coins. The total value of the coins was \$15.80. What was the total number of coins that Kelvin had?

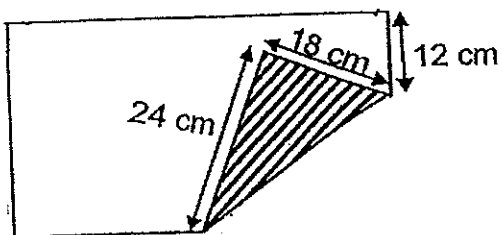
Answer: \_\_\_\_\_ [4]

14. 3 similar watches and 5 similar handbags cost \$915. 4 such watches and 2 such handbags cost \$632.  
What was the total cost of 2 such watches and 2 such handbags?

Do not write  
in this space

Answer: \_\_\_\_\_ [4]

15. The figure below shows a rectangular piece of paper (not drawn to scale) that is folded at a corner. The length of the rectangular piece of paper is twice its breadth. The folded part (shaded) has an area of  $216 \text{ cm}^2$ . What fraction of the rectangular paper is the folded part?  
Give your answer in the simplest form.



Answer: \_\_\_\_\_ [4]

16. Alycia, Brenda and Charmaine had 450 beads altogether. Alycia gave some of her beads to Brenda and Brenda's number of beads was doubled. Then Brenda gave some of her beads to Charmaine and Charmaine's number of beads was tripled. As a result, the three girls had an equal number of beads each. How many more beads did Alycia have than Charmaine at first?

Do not write  
in this space

Answer: \_\_\_\_\_ [5]

17. Ashton bought some strawberry, mango and durian sweets. The number of strawberry sweets were four times as many as the number of mango sweets. The total number of strawberry and mango sweets was thrice the number of durian sweets.

Do not write  
in this space

- (a) What fraction of all the sweets were strawberry sweets? Give your answer in the simplest form.
- (b) If there were 50 more durian sweets than mango sweets, how many sweets did Ashton buy altogether?

Answer: (a) \_\_\_\_\_ [3]

(b) \_\_\_\_\_ [2]



18. After Dora had used 53 of her stickers, Dora had twice as many stickers as Victoria. Victoria then bought 225 stickers and in the end, Victoria had thrice as many stickers as Dora.

(a) How many stickers did Dora have at first?

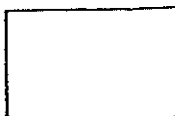
(b) How many stickers must Victoria give to Dora so that Dora will have thrice as many stickers as Victoria?

Do not write  
in this space

Answer: (a) \_\_\_\_\_ [3]

(b) \_\_\_\_\_ [2]

- End of Paper -





**Nan Hua primary school  
Continual Assessment 1 (2014)**

**Primary 5**

- 1) 3
  - 2) 3
  - 3) 2
  - 4) 3
  - 5) 4
  - 6) 2
  - 7) 4
  - 8) 3
  - 9) 2
  - 10) 3
  - 11) 2
  - 12) 1
  - 13) 4
  - 14) 1
  - 15) 3
  - 16) Three hundred and fifty thousand and ninety-four
  - 17) 25
  - 18) 574
  - 19) south
  - 20) 861 (pls note, for any number that is divisible by 3, sum up the digits, if the sum of the digits is divisible by 3, then number is divisible by 3)
  - 21) 59
  - 22) 11 40
  - 23) \$77
  - 24) 3/3/5 m.
  - 25) 34 cm
  - 26) \$ 104
  - 27) 236 teachers
  - 28) \$240
  - 29) 3 days
  - 30) 62 oranges
- $2+1=3$   
 $9-5=4$   
 $3*4=12$   
 $12*5=60$   
 $60+2=62$

## Paper 2

1)  $4-1=3$

$9-4=5$

$16-9=7$

$16+9=25$

2)  $200/5=40$

$40*4=160c$

3) B

4)  $15+6=21$

$35-21=14 \text{ sq m}$

5)  $10/4=2.5$

$2.5*9=22.5 \text{ m}$

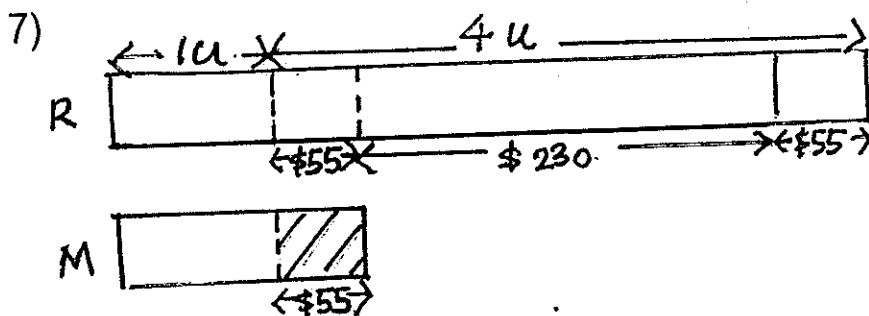
6)  $4*3=12$  (15 files)

$5*5=25$  (15 notebooks)

$12+25=37$  (15 files & 15 notebooks)

$148/37=4$  sets

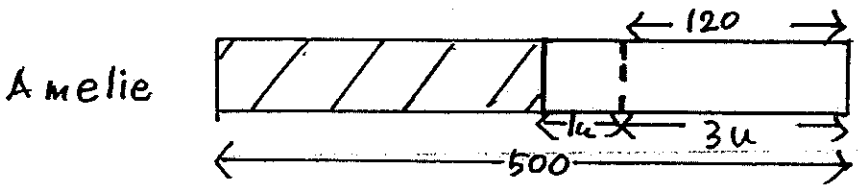
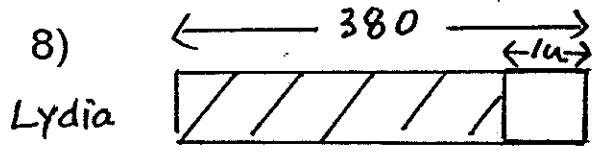
$15*4=60$  notebooks



$55+230+55=340$

$340/4=85$

$85+55=\$140$



$$500 - 380 = 120$$

$$120 / 3 = 40$$

$$380 - 40 = 340 \text{ tickets}$$

9)

$$3 = 1 \cdot 2 + 1$$

$$5 = 2 \cdot 2 + 1$$

$$7 = 3 \cdot 2 + 1$$

$$23 = ?$$

$$23 - 1 = 22$$

$$22 / 2 = 11$$

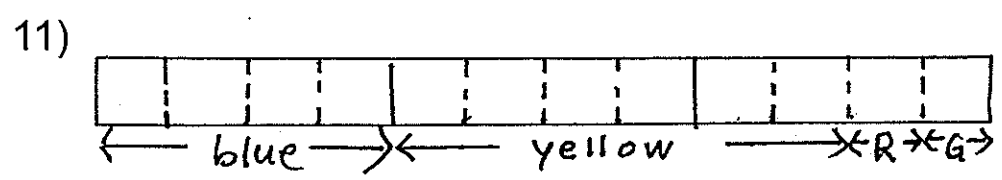
10) Assume all are pigs.

$$130 / 2 = 65$$

$$65 \cdot 4 = 260$$

$$260 - 160 = 100$$

$$100 / 2 = 50 \text{ (ducks)}$$



a)  $1/12$

b)  $27/3 = 9$

$$9 \cdot 12 = 108 \text{ ribbons}$$

12)  $J+M \rightarrow 240$

$J+K \rightarrow 90$

Difference =  $240-90 = 150$

$150/5 = 30$  (Keith)

$90-30 = 60$  (Jacky)

Total savings of the 3 boys =  $240+90-60 = \$270$

13)

10 ¢ 

	8
--	---

50 ¢ 

--

$8 \times 0.10 = 0.80$

$15.80 - 0.80 = 15$

$0.10 + 0.50 = 0.60$

$15 / 0.60 = 25$

$25 \times 2 = 50$

$50 + 8 = 58$  coins

14) 3 watches + 5 handbags = \$915

4 watches + 2 handbags = \$632

Hence 7 watches + 7 handbags =  $\$915 + \$632 = \$1547$

So, 1 watch + 1 handbag =  $1547/7 = \$221$

Therefore 2 watches + 2 handbags =  $\$221 \times 2 = \$442$

15)  $18+12 = 30$

$60 \times 30 = 1800$

$216/1800 = 3/25$

16)  $450/3 = 150$

$150/3 = 50$  (Charmaine)

$50 \times 2 = 100$

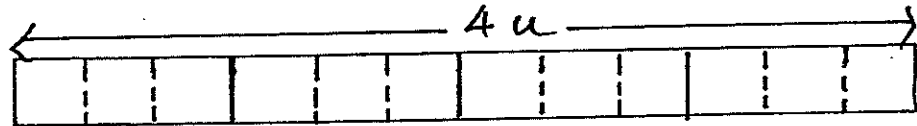
$100 + 150 = 250$

$250/2 = 125$

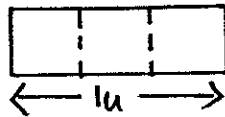
$125 + 150 = 275$  (Alycia)

$275 - 50 = 225$

17)  
Strawberry



Mango



Durian



a)  $12/20 = 3/5$

b)  $50/2 = 25$

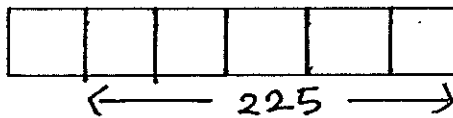
$20 * 25 = 500$

18)

Dora



Victoria



a)  $225/5 = 45$

$45 * 2 = 90$

$90 + 53 = 143$  stickers

b)  $225 + 45 = 270$

$270 + 90 = 360$

$360/4 = 90$

$270 - 90 = 180$  stickers







**Rosyth School**  
**Continual Assessment 1 2014**  
**Primary 5 Mathematics**

Name: \_\_\_\_\_

Register No. \_\_\_\_\_

Class: Pr 5 - \_\_\_\_\_

Date: 28<sup>th</sup> February 2014

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 6 pages (including this cover page)**

This paper is not to be reproduced in part or whole without the permission of the Principal.

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)

---

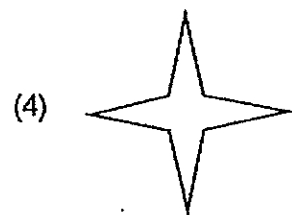
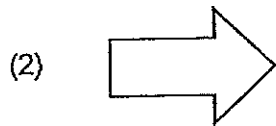
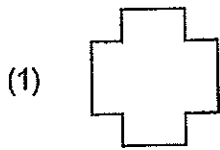
1. What is the value of the digit 7 in 675 238?
  - (1) 700
  - (2) 7 000
  - (3) 70 000
  - (4) 700 000
  
2. In 400.394 , what does the digit 9 stand for?
  - (1) 9 thousandths
  - (2) 9 hundredths
  - (3) 9 tenths
  - (4) 9 ones
  
3. What is  $40 + 2\ 000$ ?
  - (1) 0.002
  - (2) 2
  - (3) 0.02
  - (4) 0.2
  
4. Which of the following is 960 000 when rounded off to the nearest thousand?
  - (1) 959 499
  - (2) 960 499
  - (3) 960 599
  - (4) 960 999

5. Arrange the following numbers from the largest to the smallest.

5, 5.004, 5.04, 5.4

- (1) 5, 5.4, 5.04, 5.004
- (2) 5.4, 5, 5.04, 5.004
- (3) 5.004, 5.04, 5.4, 5
- (4) 5.4, 5.04, 5.004, 5

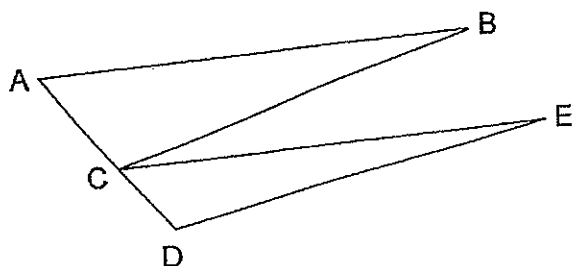
6. Which of the following figures has only one line of symmetry?



7. What is the perimeter of a square with sides 8 cm?

- (1) 16 cm
- (2) 24 cm
- (3) 32 cm
- (4) 64 cm

8. Which of the following are pairs of parallel lines?



- (1) AB and BC
- (2) AB and CE
- (3) BC and CE
- (4) BC and DE

9. The value of  $3 + 5 \times 8 - 6 \times 3 + 2$  is \_\_\_\_\_.

- (1) 23
- (2) 34
- (3) 55
- (4) 87

10. Which of the following has the same value as  $35 \times 36$ ?

- (1)  $3 \times 5 \times 3 \times 6$
- (2)  $3 \times 5 \times 5 \times 6$
- (3)  $5 \times 7 \times 3 \times 6$
- (4)  $5 \times 7 \times 6 \times 6$

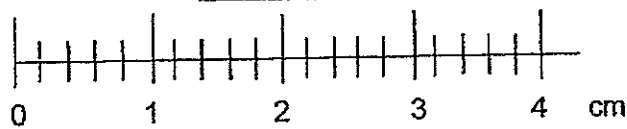
11. Which one of the following is the best estimate for  $73 \times 285$ ?

- (1) 14 000
- (2) 16 000
- (3) 21 000
- (4) 24 000

12. When a number is divided by 22, the quotient is 88.  
What is the quotient when the same number is divided by 8?

- (1) 11
- (2) 32
- (3) 242
- (4) 4

13. What is the length of the sticker shown below?



- (1) 2.1 cm
- (2) 2.2 cm
- (3) 3.1 cm
- (4) 3.2 cm

14. Judy uses the five letters of I, C, A, R and E to form a pattern. The first 12 letters are shown below. Which letter is in the 37<sup>th</sup> position?

I	C	A	R	E	I	C	A	R	E	I	C
---	---	---	---	---	---	---	---	---	---	---	---

- (1) C  
(2) A  
(3) R  
(4) E
15. Joan bought 12 cushions and 4 towels. She packed them into bags of 2 cushions and 1 towel. Each bag was sold at \$8.50 and the remaining cushions were sold at \$2.60 each. How much money did she receive from the sale of all the cushions and towels?
- (1) \$44.40  
(2) \$61.40  
(3) \$88.80  
(4) \$177.60

End of Booklet A



**Rosyth School  
Continual Assessment 1 2014  
Primary 5 Mathematics**

Name: \_\_\_\_\_

Register No. \_\_\_\_\_

Class: Pr 5 - \_\_\_\_\_

Date: 28<sup>th</sup> February 2014

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

- 
16. Write in numeral:  
Three million, six hundred and six thousand and twenty.

Ans: \_\_\_\_\_

17. Express 4.08 kg in grams.

Ans: \_\_\_\_\_ g

18. Find the value of  $81.09 + 30$ .

Ans: \_\_\_\_\_

19. Uncle Happy sold 12 645 chocolate cookies last year. Express this number to the nearest hundred.

Ans: \_\_\_\_\_

(Go on to the next page)



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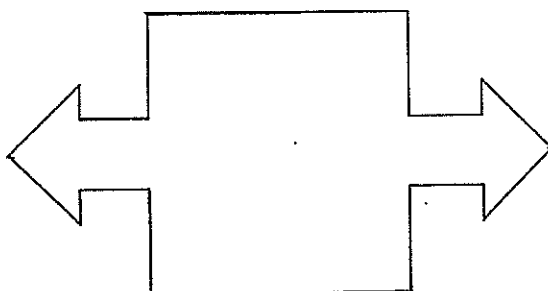
20. The population of Singapore recorded in June 2013, to the nearest hundred thousand was 5 400 000. What was the smallest possible whole number to give such an estimate?

Ans: \_\_\_\_\_

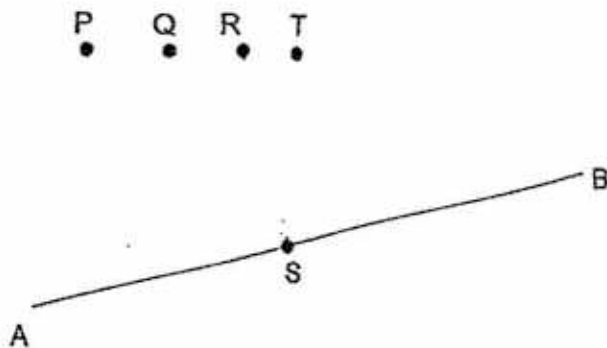
21. What is the perimeter of the square with an area of  $81 \text{ cm}^2$ ?

Ans: \_\_\_\_\_ cm

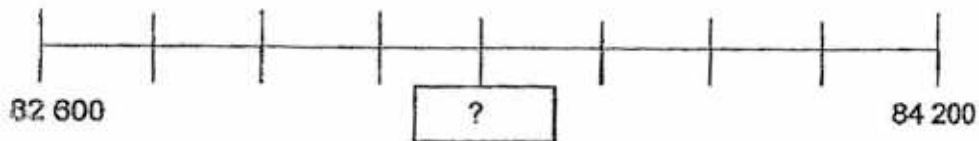
22. Draw a line of symmetry for the figure shown below.



23. Draw a line from Point S to Point P, Q, R or T to form a perpendicular line with line AB.



24. What is the missing number in the box?

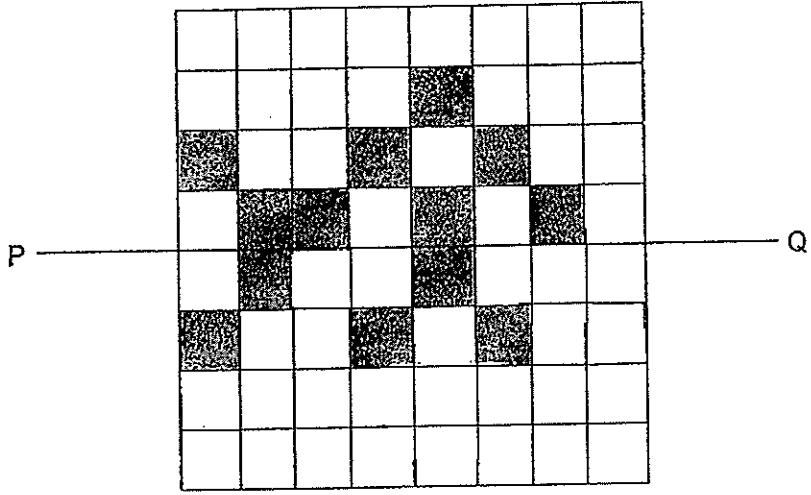


Ans: \_\_\_\_\_

Do not write  
in this space.

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25. Line PQ is the line of symmetry. Shade 3 squares to make the figure below symmetrical.



Do not write in this space.

Do not write  
in this space.

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. What is the missing number in the box?

$$1.6 + 2.4 - \boxed{?} = 0.5$$

Ans: \_\_\_\_\_

27. Express  $\frac{6}{7}$  as a decimal. Correct your answer to 2 decimal places.

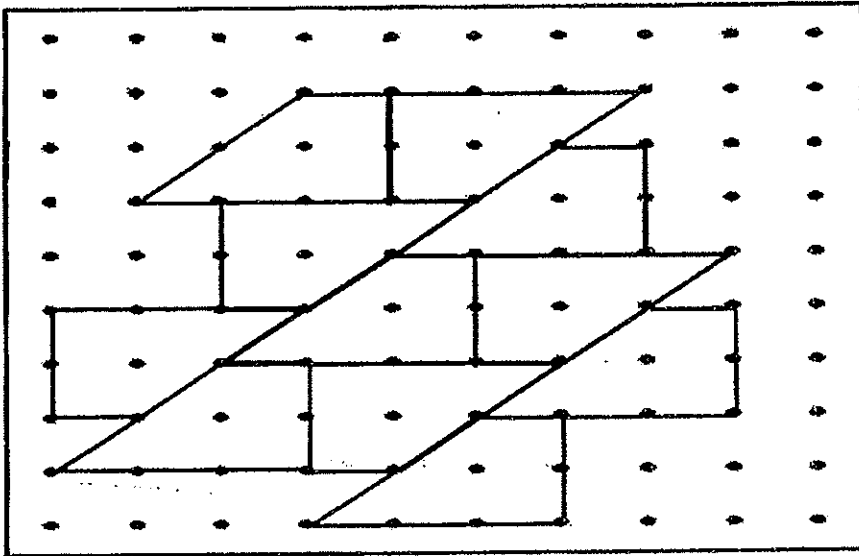
Ans: \_\_\_\_\_

28. The length of a rectangle is twice its breadth. If the perimeter of the rectangle is 72 cm, find its area.

Ans: \_\_\_\_\_ cm<sup>2</sup>

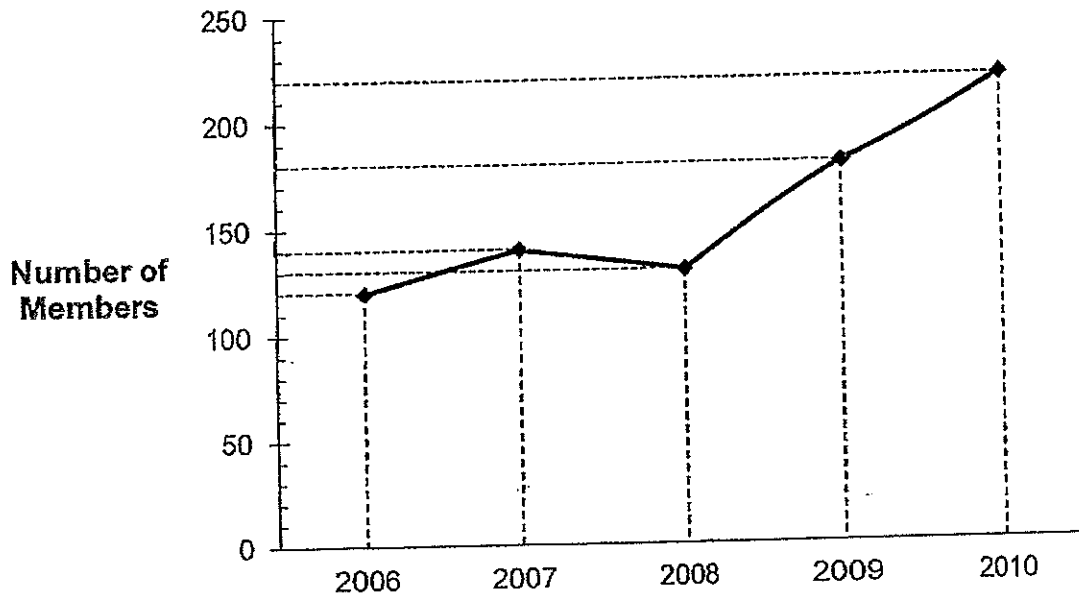
29. The pattern in the box shows part of a tessellation. Extend the tessellation by drawing two more unit shapes in the space provided in the box.

Do not write  
in this space.



Do not write  
in this space.

30. The graph below shows the membership of a photography club in 5 years.



(a) During which one-year period was the increase in the number of members the greatest?

Ans: From \_\_\_\_\_ to \_\_\_\_\_

(b) The increase in the number of members from 2010 to 2011 was twice the increase from 2009 to 2010. Find the new membership for 2011.

Ans: \_\_\_\_\_



**Rosyth School**  
**Continual Assessment 1 2014**  
**Primary 5 Mathematics**

Name: \_\_\_\_\_ Register No. \_\_\_\_\_

Class: Pr 5 - \_\_\_\_\_

Date: 28<sup>th</sup> February 2014 Parent's Signature: \_\_\_\_\_

Time: 1 h 15 minutes

**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 13	30	

Section	Maximum Mark	Marks Obtained
Paper 1	40	
Paper 2	40	
Total	80	

**\* This booklet consists of 12 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.

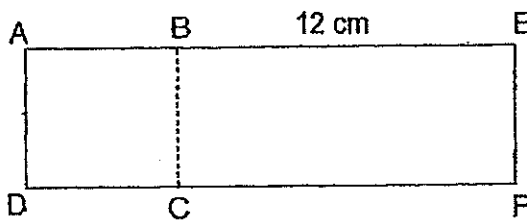
(10 marks)

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in this space

1. Mdm Siti baked 200 muffins and put them in boxes of 6 muffins each. She sold each box at \$8 each. If she sold all these boxes, how much money did she make?

Ans: \_\_\_\_\_

2. The figure below is made up of a square ABCD and a rectangle BEFC. The perimeter of the square is 36 cm. What is area of the figure?



Ans: \_\_\_\_\_ cm<sup>2</sup>



3. Benches were placed side by side along a 170 m straight path. Every bench was 6 m long. How many more benches could be placed along the same path if the length of each bench is shortened to 4 m?

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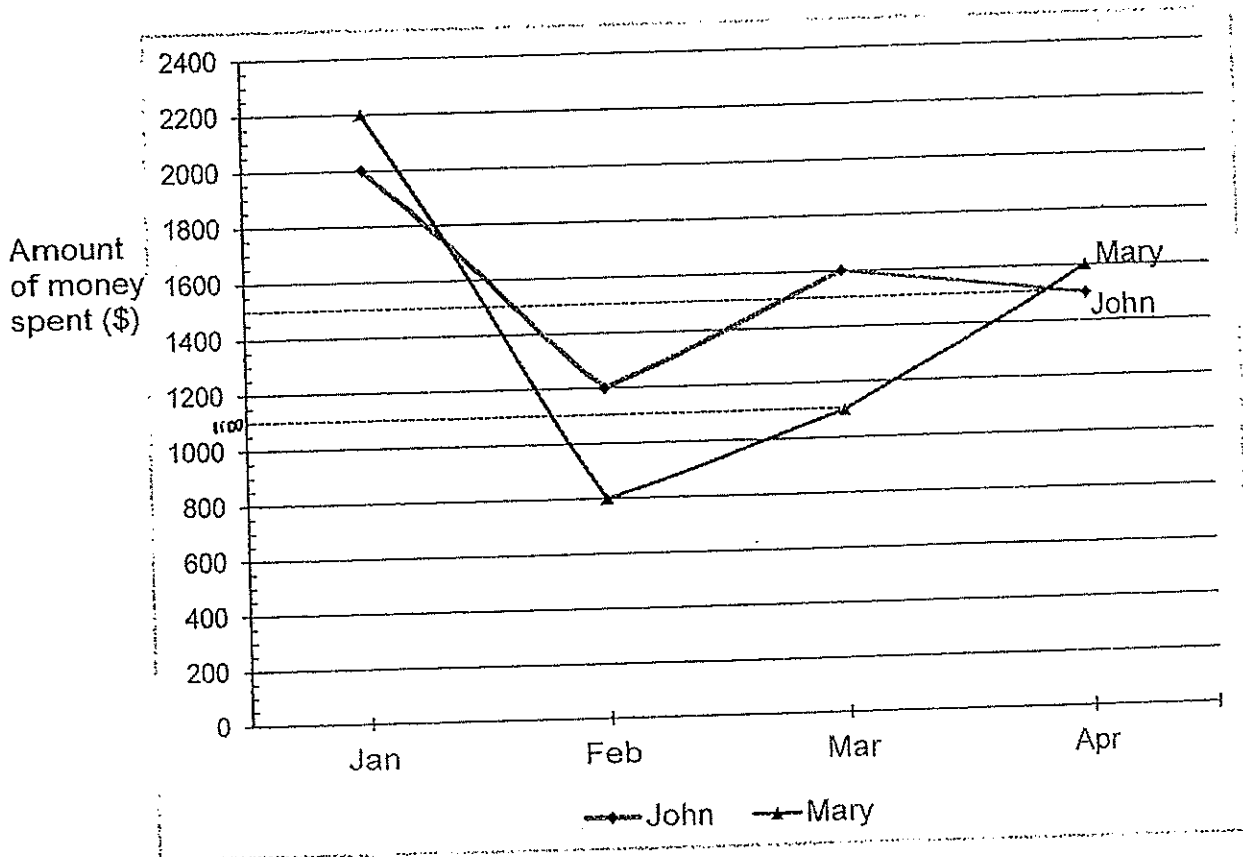
Ans: \_\_\_\_\_

4. The difference between 2 numbers is 360. If one number is thrice the other number, what is the bigger number?

Ans: \_\_\_\_\_

5. The graph below shows the amount of money spent by John and Mary in 4 months. Both of them earned \$3 000 a month and they saved the rest of the money after spending some of their own salaries each month. Who saved more money at the end of the 4 months?

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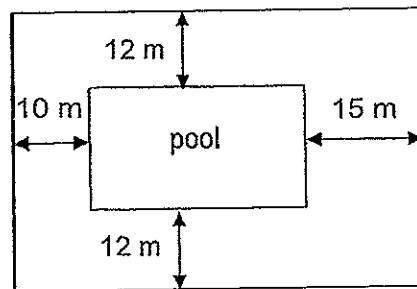
Ans: \_\_\_\_\_

Questions 6 to 13, 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.

(30 marks)

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6. The diagram below is not drawn to scale. It shows a rectangular pool in the middle of a garden. The garden measures 55 m by 44 m. What is the area of the pool?



Ans: \_\_\_\_\_ (3m)

7. Mrs Tan baked less than 100 cookies and less than 100 cupcakes. She packed all the cookies and cupcakes into boxes. In each box, there were 6 cookies and 4 cupcakes. Each box was sold for \$12.
- (a) What was the maximum total number of cookies and cupcakes she baked?
- (b) How much money did she earn if she sold all the boxes?

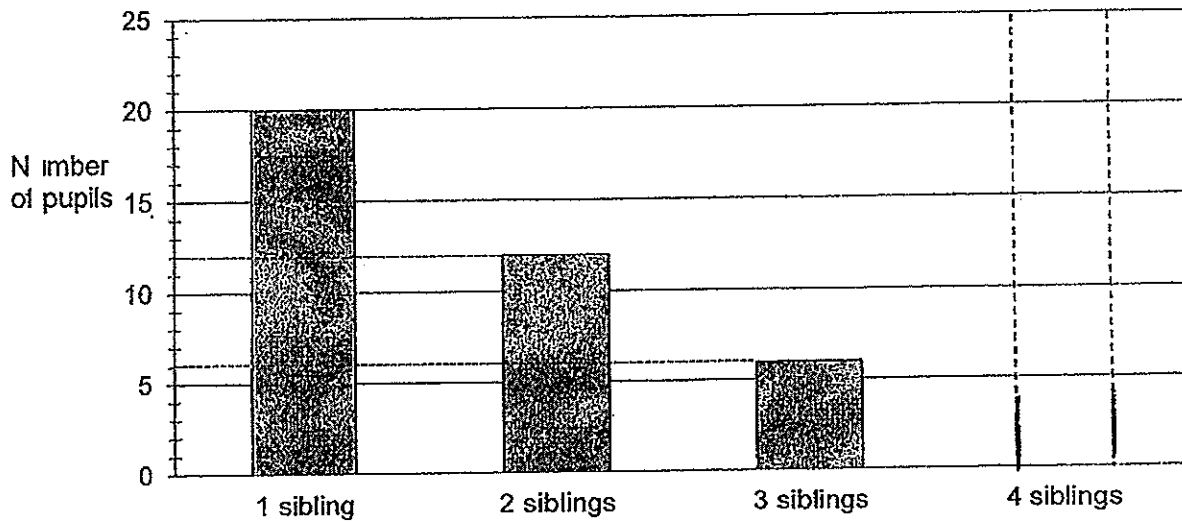
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Ans: (a) \_\_\_\_\_ (2m)

Ans: (b) \_\_\_\_\_ (1m)

8. The graph below shows the number of siblings that each pupil has in the Class Alpha.

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The number of pupils with 2 siblings is thrice the number of pupils with 4 siblings.

- (a) What was the total number of pupils in Class Alpha?
- (b) Draw the bar representing the number of pupils with 4 siblings in the bar graph above. You are not required to shade the bar.

Ans: (a) \_\_\_\_\_ (2m)

(b) (1m)

9. The parking charges at Sunshine Mall car park is:

1st hour or part thereof	\$2.50
Subsequent half an hour or part thereof	\$1.20

Mr Lim had parked his car at this car park from 1 p.m to 4.35 p.m. How much did he have to pay?

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Ans: \_\_\_\_\_ (3m)



10. Robert wanted to buy 13 shirts but he found that he was short of \$60. He bought 8 shirts and found that he had \$15 left over. How much money did Robert have?

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Ans: \_\_\_\_\_ (4m)

11. Jack and Mandy had some marbles. If Jack gave Mandy 150 marbles, both would have an equal number of marbles. If Mandy gave Jack 150 marbles, Jack would have thrice as many marbles as Mandy. How many marbles did each of them have?

Do not write  
in this space

Ans: Jack: \_\_\_\_\_  
Mandy: \_\_\_\_\_ } 4m

12. A notebook and 2 pencil case cost \$26.70. 2 notebooks and 3 pencil cases cost \$42.70.
- (a) Find the cost of one pencil case.
  - (b) How much do 3 notebooks and 4 pencil cases cost altogether?

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in this space

Ans: (a) \_\_\_\_\_ (2m)

Ans: (b) \_\_\_\_\_ (3m)



13. The number of 20-cent coins is 5 times the number of 50-cent coins. The number of \$1 coins is half the number of 20-cent coins. There are 136 coins altogether. What is the total value of these coins?

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Ans: \_\_\_\_\_ [5m]

**End of Paper**



# ANSWER SHEET

**EXAM PAPER 2014**  
**SCHOOL : ROSYTH**  
**PRIMARY : P5**  
**SUBJECT : MATHEMATICS**  
**TERM : CA1**

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

16)3606020

17)4080 g

18)2.703

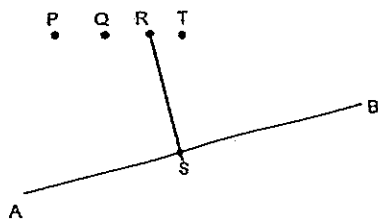
19)12600

20)53500000

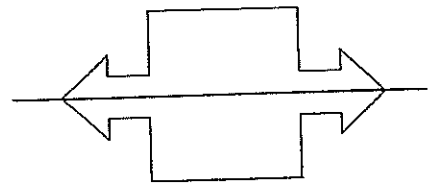
21)36 cm

22)

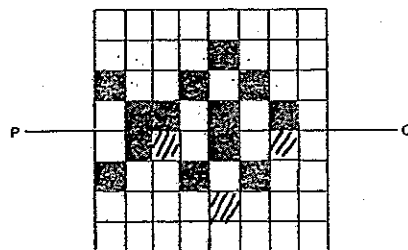
23)



24)83400



25)







## PAPER 2

---

1) No of boxes  $200 \div 6 = 33 \text{ R } 2$  muffins  
Total  $33 \times 8 = \$264$

2)  $12 + 9 = 21 \text{ cm}$   
 $21 \times 9 = 189 \text{ cm}^2$

3)  $170 \div 6 = 28 \text{ R } 2$   
 $170 \div 4 = 42 \text{ R } 2$   
 $42 \text{ R } 2 - 28 \text{ R } 2 = 14$

4)  $360 \div 2 = 180$   
 $180 \times 3 = 540$

5) Mary

6) Length of pool  $\rightarrow 10 + 15 = 25 \text{ m}$   
 $55 \text{ m} - 25 \text{ m} = 30 \text{ m}$   
Breadth of pool  $\rightarrow 12 \times 2 = 24 \text{ m}$   
 $44 - 24 \text{ m} = 24 \text{ m}$   
Area of pool =  $20 \text{ m} \times 30 \text{ m} = 600 \text{ m}^2$

7) a)  $100 \div 6 = 16 \text{ R } 4$   
Cookies  $\rightarrow 16 \times 6 = 96$   
Cupcakes  $\rightarrow 16 \times 4 = 64$   
Total  $\rightarrow 96 + 64 = 160$   
b)  $16 \times \$12 = \$192$

8) a)  $20 + 12 + 6 + 4 = 42$   
b) 4 siblings



9)Time	cost
1pm-2pm	\$2.50
2pm-2.30	\$1.20
2.30-3pm	\$1.20
3pm-3.30	\$1.20
3.30-4pm	\$1.20
4pm-4.30	\$1.20
4.30-4.35	\$1.20

---

Total = \$9.20

10) 5 shirts  $\rightarrow$  \$15 + \$60 = \$75

1 shirt  $\rightarrow$  \$15

8 shirts  $\rightarrow$  \$15  $\times$  8 = \$120

\$120 + 15 = \$135

11)  $2u = 150 \times 4 = 600$

$1u = 300$

Mandy  $\rightarrow$  300 + 150 = 450

Jack  $\rightarrow$  300 + 150 + 150 + 150 = 750

12)a)  $1n + 2p = \$26.70$

$2n + 3p = \$42.70$

$1n + 1p = \$16$

$1p = \$26.70 - \$16 = \$10.70$

b)  $2n + 3p = \$42.70$

$1n + 1p = \$16$

$3n + 4p = \$58.70$

13) No of

20c  $10u \rightarrow 8 \times 10 = 80$

50c  $2u \rightarrow 8 \times 2 = 16$

\$1  $5u \rightarrow 8 \times 5 = 40$

Value

20c  $80 \times \$0.20 = \$16$

50c  $16 \times \$0.50 = \$8$

Total  $\$40 + \$16 + \$8 = \$64$



NAN HUA PRIMARY SCHOOL  
CONTINUAL ASSESSMENT TWO – 2014  
PRIMARY 5

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 : 5 \_\_\_\_\_

Date : 26 August 2014

Parent's Signature : \_\_\_\_\_

**Section A (20 marks)**

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) and shade on the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

---

1. Round off 298 735 to the nearest thousands.

- (1) 290 000
- (2) 298 000
- (3) 299 000
- (4) 300 000

2. Find the value of  $2.06 \times 90$

- (1) 1.854
- (2) 18.54
- (3) 185.4
- (4) 1854

3. Express 4.2 km in metres.

- (1) 4 200 m
- (2) 4 002 m
- (3) 420 m
- (4) 402 m

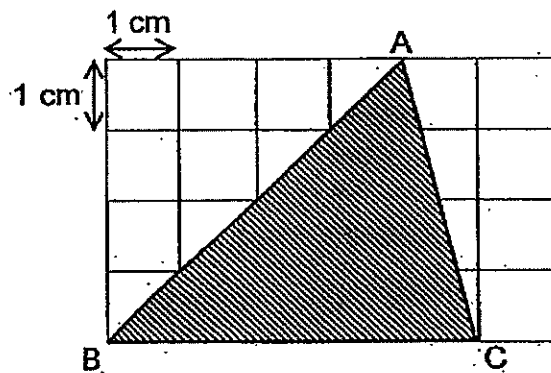
4. Express 50¢ as a percentage of \$4.

- (1)  $\frac{1}{8}\%$
- (2) 8%
- (3)  $12\frac{1}{2}\%$
- (4) 800%

5. What is the missing number in the box?

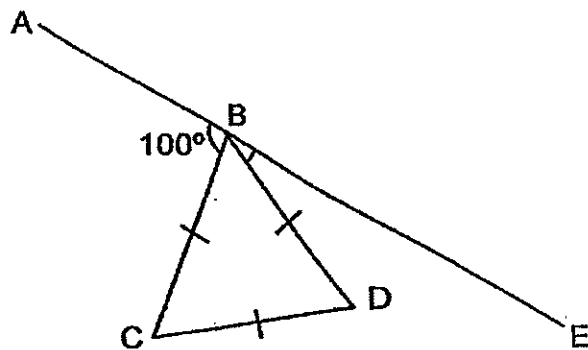
$$0.52 = \frac{52}{\boxed{\phantom{000}}}$$

- (1) 1
  - (2) 10
  - (3) 100
  - (4) 1 000
6. Find the area of the shaded triangle ABC.



- (1) 6 cm<sup>2</sup>
- (2) 8 cm<sup>2</sup>
- (3) 10 cm<sup>2</sup>
- (4) 18 cm<sup>2</sup>

7. Express  $\frac{2}{7}$  as a decimal and correct it to 2 decimal places.
- (1) 0.27  
 (2) 0.28  
 (3) 0.29  
 (4) 0.30
8. Mother cracked 10 eggs to cook some dishes and had 40 eggs left. What percentage of the eggs had she left?
- (1) 20%  
 (2) 25%  
 (3) 75%  
 (4) 80%
9. The figure below, not drawn to scale, is made up of an equilateral triangle BCD and a straight line ABE. Find  $\angle DBE$ .



- (1)  $20^\circ$   
 (2)  $40^\circ$   
 (3)  $60^\circ$   
 (4)  $80^\circ$

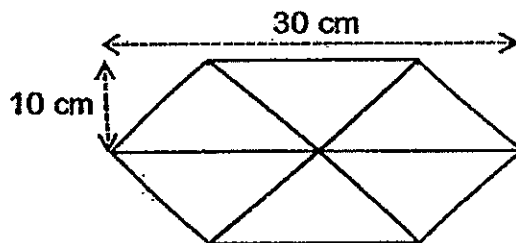
10. If 25% of a number is 80, what is the number?

- (1) 20
- (2) 60
- (3) 100
- (4) 320

11.  $\frac{5}{8}$  of the fish in a fish tank are goldfish.  $\frac{1}{6}$  of the remainder are mollies and the rest are guppies. What is the ratio of the number of guppies to the total number of fish?

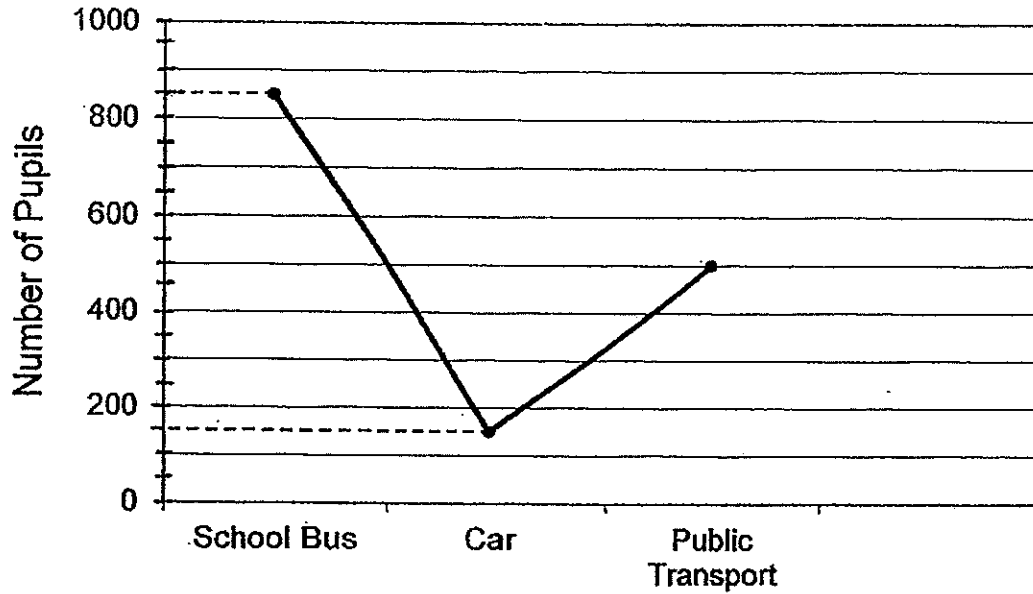
- (1) 1 : 4
- (2) 1 : 7
- (3) 4 : 7
- (4) 5 : 16

12. The figure below, not drawn to scale, is made up of 6 identical triangles. What is the area of the figure?



- (1) 150 cm<sup>2</sup>
- (2) 300 cm<sup>2</sup>
- (3) 450 cm<sup>2</sup>
- (4) 900 cm<sup>2</sup>

13. The line graph below shows the number of pupils coming to school using different modes of transport.



20% of the pupils taking the school bus and half of the pupils taking public transport are girls. What is the total number of boys who take school bus and public transport to school?

- (1) 279
- (2) 420
- (3) 930
- (4) 945



14. Kate spent  $\frac{3}{8}$  of her money on a school bag and then she bought a soft toy. If the school bag cost 6 times as much as the soft toy, what fraction of her money was left?

(1)  $\frac{5}{8}$

(2)  $\frac{9}{16}$

(3)  $\frac{7}{16}$

(4)  $\frac{3}{8}$

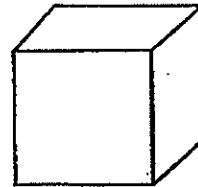
15. What is the volume of a cube if the sum of all its edges is 36 cm?

(1)  $27 \text{ cm}^3$

(2)  $64 \text{ cm}^3$

(3)  $216 \text{ cm}^3$

(4)  $729 \text{ cm}^3$



**Section B (20 marks)**

Questions 16 to 25 carry 1 mark each. Questions 26 to 30 carry 2 marks each.  
For each question from 26 to 30, show your workings clearly in the space below it and write your answer in the space provided. Give your answers in the units stated.

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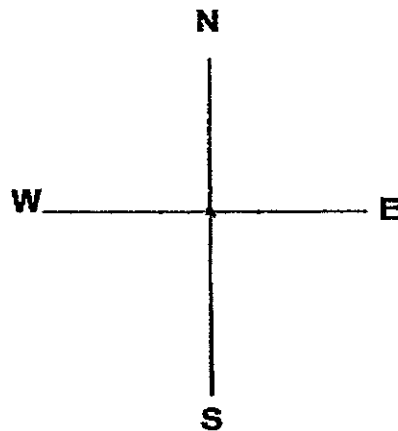
16. Write six million, six hundred and ninety thousand and five in numerals.

Ans: \_\_\_\_\_

17. Find the value of  $32 + (9 \times 8) - 4$ .

Ans: \_\_\_\_\_

18. Jonathan is facing North-West after making a  $\frac{3}{4}$  clockwise turn.  
Where was he facing at first?



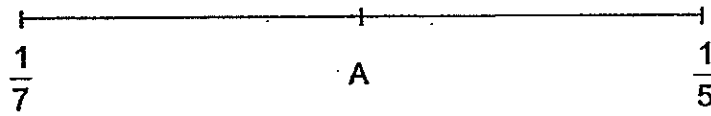
Ans: \_\_\_\_\_



19. Subtract  $\frac{1}{2}$  from  $5\frac{1}{6}$ . Express your answer as a mixed number in its simplest form.

Ans: \_\_\_\_\_

20. Point A represents a fraction exactly between  $\frac{1}{7}$  and  $\frac{1}{5}$  on a number line.  
What is the fraction represented by A?



Ans: \_\_\_\_\_

21. A cuboid has a square base of side 6 cm and a height of 11 cm. Find its volume.

Ans: \_\_\_\_\_  $\text{cm}^3$

22. Express  $\frac{7}{25}$  as a percentage.

Ans: \_\_\_\_\_ %



23. Container A contained 0.25 kg of flour and Container B contained 600 g of flour. How much flour must be poured from Container B into Container A so that both containers contained the same amount of flour?

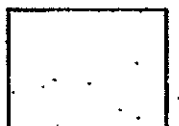
Ans: \_\_\_\_\_ g

24. Mrs. Chai prepared  $\frac{7}{8}$  ℓ of lemonade in a jug. Her children drank  $\frac{3}{5}$  of the lemonade. How much lemonade was left in the jug? Give your answer in fraction in the simplest form.

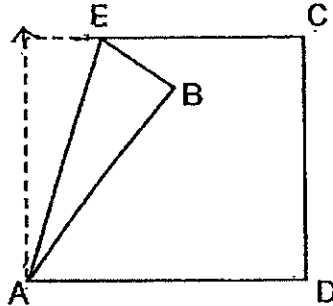
Ans: \_\_\_\_\_ ℓ

25. Pauline has a tape that is  $\frac{4}{5}$  m long. She cuts the tape into 8 equal pieces. What is the length of each small piece of tape? Give your answer in fraction in the simplest form.

Ans: \_\_\_\_\_ m



26. In the figure below, a square piece of paper ABCD is folded at corner B in such a way that BE is  $\frac{1}{4}$  of one side of the square. The area of triangle ABE is  $18 \text{ cm}^2$ . Find the area of the square piece of paper.



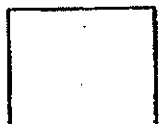
Ans: \_\_\_\_\_  $\text{cm}^2$

27.  $\frac{3}{5}$  of the number of pears is equal to  $\frac{2}{3}$  of the number of lemons.  
Find the ratio of the total number pears to the total number of lemons.

Ans: \_\_\_\_\_

28. In a library, 62% of the books are English books, 23% of the books are Chinese and the rest are Malay books. If there are 800 more Chinese books than Malay books, how many Malay books are there in the library?

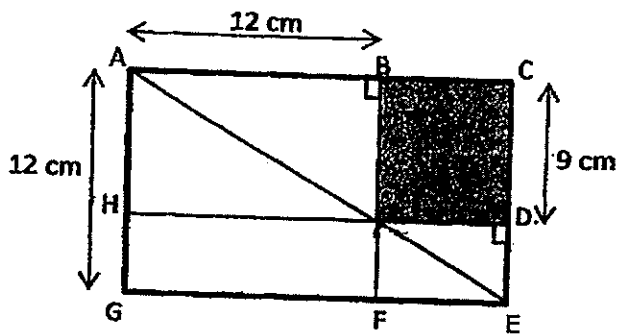
Ans: \_\_\_\_\_



29. Mr. Lee wants to put all 36 boys and all 90 girls into groups for an activity. There are more girls than boys in each group. Each group must have the same number of boys. Each group must also have the same number of girls. What is the greatest number of groups Mr. Lee can form with these conditions?

Ans: \_\_\_\_\_

30. In the figure below, ACEG is a rectangle. AE, BF and DH are straight lines. Using the given measurements, find the area of the shaded part.



Ans: \_\_\_\_\_ cm<sup>2</sup>

End of Paper 1





**NAN HUA PRIMARY SCHOOL  
CONTINUAL ASSESSMENT TWO – 2014  
PRIMARY 5**

**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**

<b>Total</b>		<b>/ 60</b>
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**Name : \_\_\_\_\_ (      )**

**Class : 5 \_\_\_\_\_**

**Date : 26 August 2014**

**Parent's Signature : \_\_\_\_\_**

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. What is the value of the digit 2 in each of the following?

(a) 3 421

(b) 895.02

Ans: (a) \_\_\_\_\_ [1]

(b) \_\_\_\_\_ [1]

2. There are 720 children in the hall. 25% of them are boys. How many girls are there?

Ans: \_\_\_\_\_ [2]

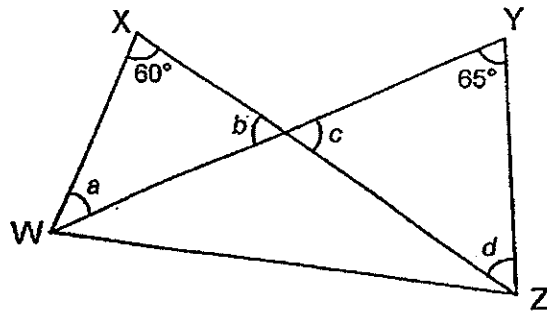
3. Mr. Liu paid \$20 for 8 apples and 6 mangoes. 4 apples cost as much as 2 mangoes. What was the cost of a mango?

Ans: \$ \_\_\_\_\_ [2]



4. The diagram below, not drawn to scale, is made up of 2 overlapping triangles WXZ and WYZ. Find the sum of  $\angle a$ ,  $\angle b$ ,  $\angle c$  and  $\angle d$ .

Do not write  
in this space



Ans: \_\_\_\_\_° [2]

5. Dallas made some orange juice. If she poured the juice to fill completely 8 similar bottles, she would have 2 litres of juice left. If she wanted to pour the juice to fill completely 16 such bottles, she would need another 8 litres of juice. How much juice did Dallas make?

Ans: \_\_\_\_\_ litres [2]

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

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6. Janice bought a total of 28 pens and erasers. She paid \$36 altogether. The pen cost \$2 each and a set of 3 erasers cost \$1. How many erasers did Janice buy?

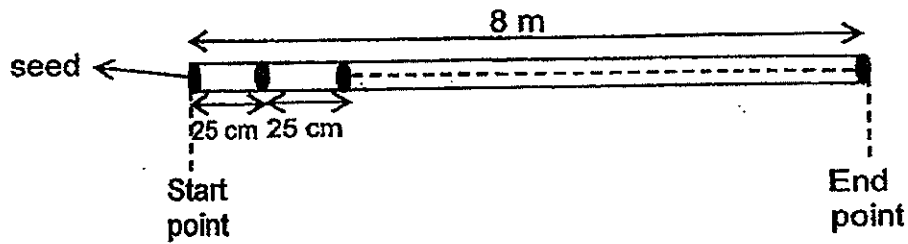
Ans: \_\_\_\_\_ [3]

7. Bill spent  $\frac{2}{7}$  of his money on a shirt and 40% of the remainder on a wallet. If he had \$90 left, how much money did he have at first?

Ans: \_\_\_\_\_ [3]

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8. Along a straight 8 m field, Mabel planted a seed at every 25 cm mark, including the start and end points of the field.



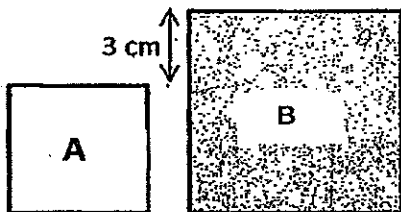
- (a) How far away was the 10<sup>th</sup> seed from the start point?  
(b) How many seeds did Mabel plant altogether?

Ans: (a) \_\_\_\_\_ [1]

(b) \_\_\_\_\_ [2]



9. A and B are squares. B's length is 3 cm longer than A's length. Both the lengths of the squares are whole numbers.



If the difference in their area is 45 cm<sup>2</sup>, find the perimeter of square B.

Ans: \_\_\_\_\_ [3]



Do not write  
in this space

10. Mr. Chong bought some tables and chairs from a furniture mall. A table cost 5 times as much as a chair. He spent  $\frac{2}{5}$  of his money on the chairs and  $\frac{1}{3}$  of the remaining money on 2 tables. What was the total number of chairs and tables bought by Mr. Chong?

Ans: \_\_\_\_\_ [3]



11. The following figures are made up of solids with triangular and rectangular faces.



Figure 1

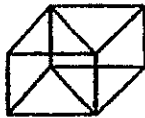


Figure 2

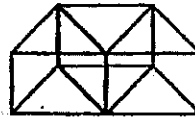


Figure 3

Figure number	Number of triangular faces	Number of rectangular faces
1	2	3
2	4	5
3	6	7
...	...	...
10	(i)	(ii)

- (a) Complete the table for figure 10 by filling in (i) and (ii) above. [2]  
 (b) Which figure has a total of 51 rectangular faces?

Ans: (b) \_\_\_\_\_ [1]



Do not write  
in this space

12. Bala collected Singapore, Malaysia and Thailand stamps. The ratio of the number of Thailand stamps to the total number of Singapore and Malaysia stamps was 4 : 11. The ratio of the number of Malaysia stamps to the total number of Singapore and Thailand stamps was 2 : 3. There were 52 more Malaysia stamps than Thailand stamps. How many stamps did Bala have in all?

Ans: \_\_\_\_\_ [4]

13. Brendon had 110 more marbles than Andy. When Brendon gave 200 of his marbles to Andy, Andy had 6 times as many marbles as Brendon. How many marbles did Brendon have at first?

Ans: \_\_\_\_\_ [4]

Do not write  
in this space

14. Jacqueline spent \$31.20 on some doughnuts.  $\frac{1}{2}$  of the doughnuts she bought were plain ones. The remaining chocolate and durian flavoured doughnuts were in the ratio 1 : 2. The prices of the doughnuts were shown below.

Types of doughnut	Cost of each doughnut
Plain	\$1.00
Chocolate	\$1.20
Durian	\$1.80

How many chocolate flavoured doughnuts did Jacqueline buy?

Ans: \_\_\_\_\_ [4]



Do not write  
in this space

15. Linda had a total of 800 red and blue beads in a box. After using  $\frac{1}{3}$  of the red beads and  $\frac{1}{7}$  of the blue beads in making some bracelets, there were as many red beads and blue beads left in the box.

- (a) How many beads were left in the box?
- (b) How many red beads did Linda have at first?

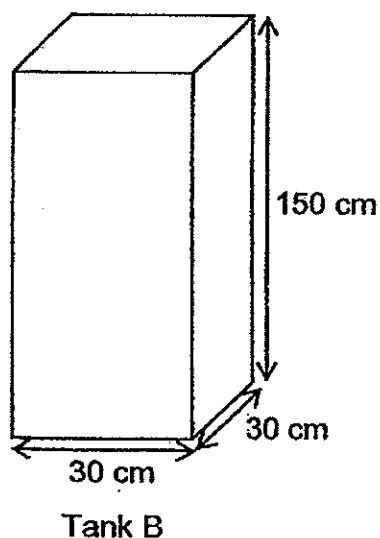
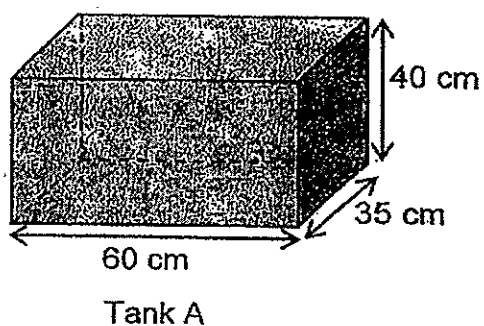
Ans: (a) \_\_\_\_\_ [3]

(b) \_\_\_\_\_ [2]

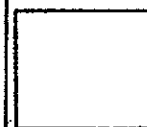


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16. Lynn had 2 tanks, A and B. Tank A was completely filled with water and Tank B was empty. She poured  $\frac{5}{8}$  of the water from Tank A into Tank B. How much more water should Lynn add into Tank B from a tap so that the ratio of the volume of water left in Tank A to the volume of water in Tank B was 3 : 7? Give your answer in litres.



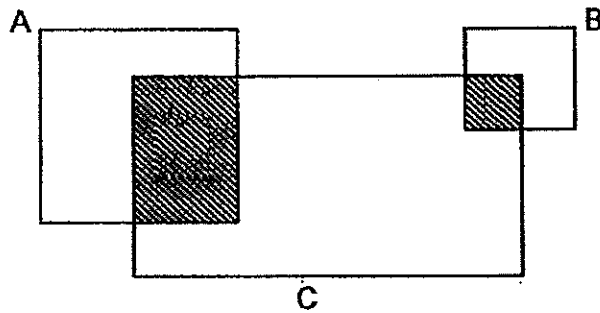
Ans: \_\_\_\_\_ [5]



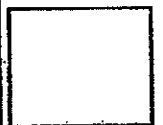


Do not write  
in this space

17. The figure below, not drawn to scale, is made up of 2 squares A and B and a rectangle C. The ratio of the area of Square A to Square B to Rectangle C is 4 : 1 : 8 respectively.  $\frac{3}{8}$  of square A and  $\frac{1}{4}$  of square B are shaded. Given that the total area of the shaded parts is  $112 \text{ cm}^2$ , find the total area of the unshaded parts of the figure.



Ans: \_\_\_\_\_ [5]



18. Evelyn, Fauziah and Gina collected a total of 536 stickers. The ratio of the number of Gina's stickers to Evelyn's stickers was 6 : 10. After Evelyn and Fauziah each gave away 50% of their stickers, Fauziah had 60 stickers more than Evelyn. How many stickers did Fauziah have at first?

Do not write  
in this space

Ans: \_\_\_\_\_ [5]



End of Paper

**Nan Hua Primary School  
Continual Assessment 2 (2014)  
Primary 5**

- 1) 3
- 2) 3
- 3) 1
- 4) 3
- 5) 3
- 6) 3
- 7) 3
- 8) 4
- 9) 1
- 10) 4
- 11) 4
- 12) 3
- 13) 3
- 14) 2
- 15) 1
- 16) 6 690 005
- 17) 100
- 18) NE
- 19) 4/2/3
- 20) 6/35
- 21) 396
- 22) 28%
- 23) 175 g
- 24) 7/20 litres
- 25) 1/10 m
- 26) 144 sq m
- 27) 10 : 9
- 28) 1500 Malay books
- 29) 18 ( pls note, by using highest common factor)
- 30) 36 sq cm

By comparison,

Triangle ABI = Triangle AHI & Triangle IFE = Triangle IDE

Hence, rectangle HIFG = rectangle BCDI

## Paper 2

1a) 20

b) 0.02

2)  $720/4 = 180$

$180*3 = 540$

3)  $8 \text{ apples} + 6 \text{ mangoes} = \$20$

$4 \text{ apples} = 2 \text{ mangoes}$

So,  $8 \text{ apples} = 4 \text{ mangoes}$

Hence  $4 \text{ mangoes} + 6 \text{ mangoes} = \$20$

$10 \text{ mangoes} = \$20$

$1 \text{ mango} = \$20/10 = \$2$

4)  $180*2 = 360$

$360 - 60 - 65 = 235 \text{ degree}$

5)  $2 + 8 = 10$

$16 - 8 = 8$

$10/8 = 1.25$

$1.25*8 = 10$

$10 + 2 = 12 \text{ litres}$

6) Assume all are pens

$\$2*28 = \$56$

$\$56 - \$36 = \$20$

$3*2 = 6$

$6 - 1 = 5$

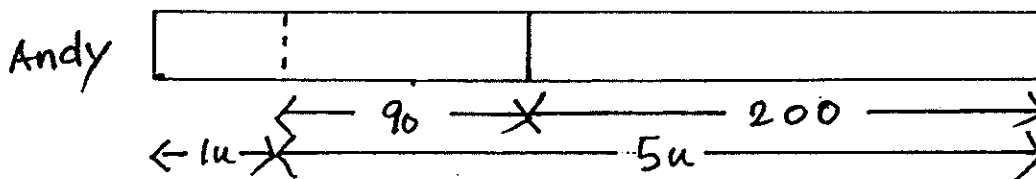
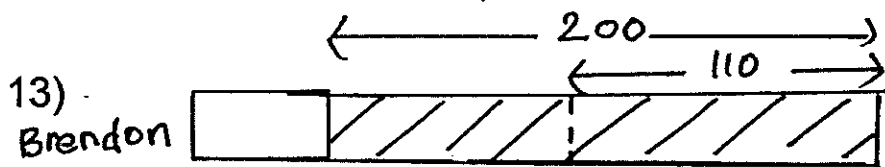
$20/5 = 4$

$4*3 = 12$



$90/3 = 30$

$30*7 = \$210 \text{ at first}$



$$200 - 110 = 90$$

$$200 + 90 = 290$$

$$290 / 5 = 58$$

$$58 + 200 = 258 \text{ marbles}$$

14) C : D

$$1 : 2$$

$$\text{Plain doughnuts} = 1 + 2 = 3 \text{ units}$$

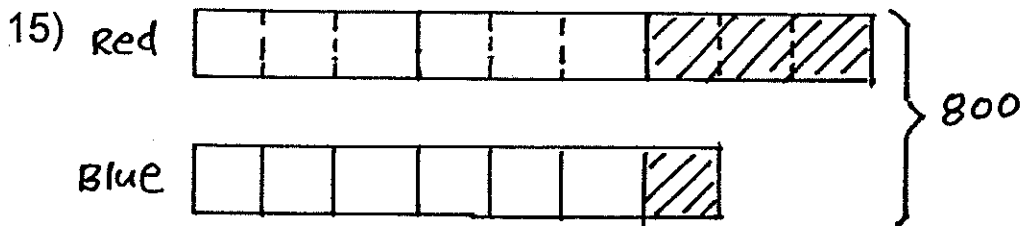
$$1 * 3 = 3$$

$$2 * 1.80 = 3.60$$

$$1 \text{ set of 3 plain, 1 chocolate \& 2 durian} = 3 + 1.20 + 3.60 = \$7.80$$

$$31.20 / 7.80 = 4 \text{ sets}$$

$$4 * 1 = 4 \text{ chocolate doughnuts}$$



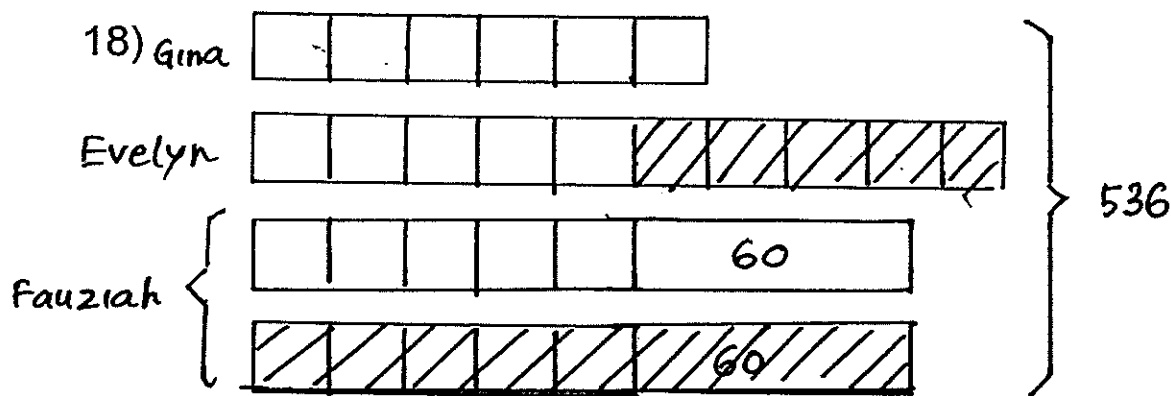
a)  $800 / 16 = 50$

$$50 * 12 = 600$$

b)  $9 * 50 = 450$

- 16) Volume of water in Tank A at first =  $60 \times 35 \times 40 = 84000$  cubic cm  
 = 84 litres  
 Volume of water left in Tank A after the transfer =  $\frac{3}{8} \times 84 = 31.5$  litres  
 Volume of water transferred =  $84 - 31.5 = 52.5$  litres  
 3 units  $\rightarrow$  31.5 litres  
 1 unit  $\rightarrow$   $31.5/3 = 10.5$  litres  
 7 units  $\rightarrow$   $10.5 \times 7 = 73.5$  litres  
 Amount of water to be added =  $73.5 - 52.5 = 21$  litres

- 17) A : B : C  
 4 : 1 : 8  
 = 16 : 4 : 32  
 $\frac{3}{8} \times 16 = 6$  units (shaded A)  
 $\frac{1}{4} \times 4 = 1$  unit (shaded B)  
 7 units  $\rightarrow$  112 sq cm  
 1 units  $\rightarrow$   $112/7 = 16$  sq cm  
 Unshaded C =  $32u - 6u - 1u = 25u$   
 Unshaded region =  $(16 - 6) + (4 - 1) + 25 = 38u$   
 $38 \times 16 = 608$  sq cm



$$60 \times 2 = 120$$

$$536 - 120 = 416$$

$$416/26 = 16$$

$$16 \times 10 = 160$$

$$160 + 120 = 280 \text{ stickers}$$



**Rosyth School**  
**Second Continual Assessment 2014**  
**Primary 5 Mathematics**

Name: \_\_\_\_\_

Register No. \_\_\_\_\_

Class: Pr 5 - \_\_\_\_\_

Date: 19th August 2014

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.

(20 marks)

---

1. 40 thousands 4 ones 6 tenths and 6 thousandths is the same as \_\_\_\_\_.

- (1) 4 004.66
- (2) 4 004.606
- (3) 40 004.66
- (4) 40 004.606

2. The sum of 7 numbers is 7 014. Find the average of the numbers.

- (1) 102
- (2) 120
- (3) 1 002
- (4) 1 020

3. What is the value of  $200 - (28 - 8) + 5 \times 2$ ?

- (1) 72
- (2) 192
- (3) 198
- (4) 394

4. Mrs Tang bought 12 raisin buns, 21 butter buns and 15 coconut buns. What was the ratio of the number of butter buns to the total number of buns?

- (1) 7 : 9
- (2) 7 : 16
- (3) 9 : 7
- (4) 9 : 16

5. Mrs Teo bought a pizza. Her two children ate  $\frac{1}{2}$  of it and  $\frac{1}{3}$  of it respectively. What fraction of the pizza was left?

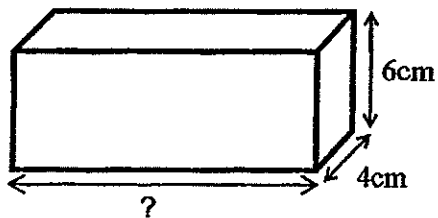
(1)  $\frac{1}{2}$

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

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

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

6. The volume of the box shown below is  $192 \text{ cm}^3$ . What is the length of the box?



(1) 8 cm

(2) 19.2 cm

(3) 32 cm

(4) 48 cm

7. There are 64 children in an art class. 48 of them are boys. What percentage of these children are girls?

(1) 16%

(2) 25%

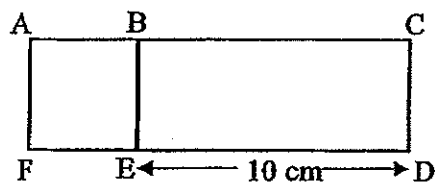
(3) 48%

(4) 75%

8. A book cost \$25 before GST. Mark had to pay 7% GST for the book.  
What was the GST amount?

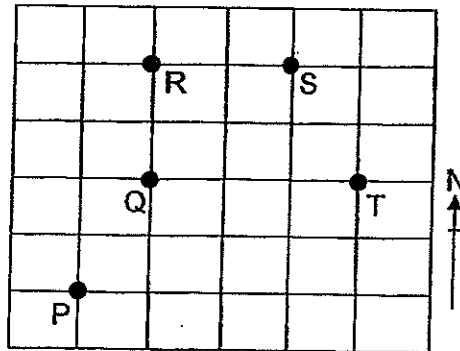
- (1) \$1.25
- (2) \$1.75
- (3) \$23.25
- (4) \$26.75

9. The figure below is not drawn to scale. ABEF is a square and BCDE is a rectangle.  
Given that the area of the rectangle is  $70 \text{ cm}^2$ , find the area of the square.



- (1)  $28 \text{ cm}^2$
- (2)  $49 \text{ cm}^2$
- (3)  $100 \text{ cm}^2$
- (4)  $149 \text{ cm}^2$

10. In the square grid shown below, which letter is north-east of Q?



- (1) P
- (2) R
- (3) S
- (4) T

11. The table below shows the parking charges at a car-park.

1 <sup>st</sup> hour	\$2
Every additional $\frac{1}{2}$ hour or part thereof	\$1

Mr Raju parked his car from 4 p.m. to 6.40 p.m.

How much did he have to pay?

- (1) \$5
- (2) \$6
- (3) \$3
- (4) \$4

12. Mary had a 4 m long ribbon. She cut 5 equal pieces from it and had  $\frac{1}{4}$  m of it left.

What was the length of each piece of ribbon?

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

(2)  $\frac{11}{20}$  m

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

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

13. The price of the book was \$60 before discount.

What was the price of the same book after a 20% discount?

(1) \$12

(2) \$15

(3) \$48

(4) \$75

14. Raju, Su Ling and Tom shared \$640 in the ratio 1 : 3 : 4.

How much more money did Raju and Tom receive than Su Ling?

(1) \$16

(2) \$80

(3) \$160

(4) \$480

15. 20% of a wall was painted blue and 25% of it was painted green.  
The rest of the wall was painted yellow. The area of the wall was  $200 \text{ m}^2$ .  
What was the area of the wall that was painted yellow?

- (1)  $40 \text{ m}^2$
- (2)  $50 \text{ m}^2$
- (3)  $90 \text{ m}^2$
- (4)  $110 \text{ m}^2$

End of Booklet A



Rosyth School  
Second Continual Assessment 2014  
Primary 5 Mathematics

Name: \_\_\_\_\_

Register No. \_\_\_\_\_

Class: Pr 5 - \_\_\_\_\_

Date: 19<sup>th</sup> August 2014

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 7 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

---

16.  $83\,330 = 80\,000 + \boxed{\text{?}} + 30$

What is the missing number in the box?

Ans: \_\_\_\_\_

17. Express 4.12 as a mixed number in its simplest form.

Ans: \_\_\_\_\_

18. Express 20 : 36 : 16 in its simplest form.

Ans: \_\_\_\_\_

19.  $36 \times 16 + \boxed{\text{?}} = 36 \times 18$

Find the value of the missing number the box.

Ans: \_\_\_\_\_



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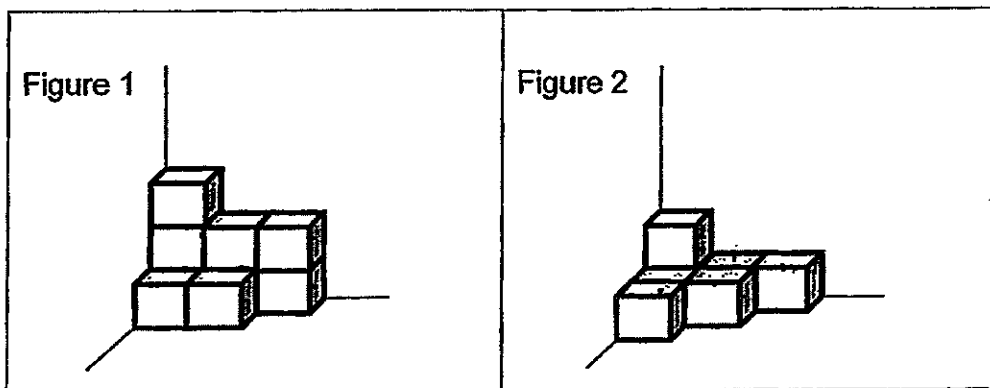
20. Express 650 m as a percentage of 1 km.

Ans: \_\_\_\_\_%

21. Sally's pocket money was \$40. Her pocket money was increased by 25% the following week. How much was her pocket money after the increase?

Ans: \$ \_\_\_\_\_

22. Ron arranged the cubes as shown in Figure 1 below. He later removed some of the cubes and rearranged the remaining cubes as shown in Figure 2. How many cubes did he remove?



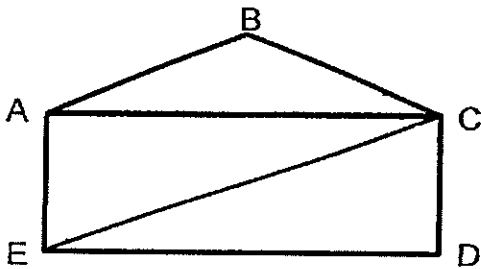
Ans: \_\_\_\_\_

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in this space

23. 12 cubes of side 2 cm are used to fill a box completely. What is the capacity of the box?

Ans: \_\_\_\_\_  $\text{cm}^3$

24. In the figure (not drawn to scale) shown below, ABC is an isosceles triangle and ACDE is a rectangle. How many angles inside this figure are less than  $90^\circ$  ?



Ans: \_\_\_\_\_

25. There are 40 marbles in a box. 8 of them are red and the rest are blue. Find the ratio of the total number of marbles in the box to the number of blue marbles.

Ans: \_\_\_\_\_

Do not write  
in this space.

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. Peter exercises for an hour every day.  $\frac{1}{3}$  of the time is spent cycling and the rest of the time is spent jogging. How many minutes does he spend jogging?

Ans: \_\_\_\_\_ min

- 
27. Siti placed 10 flowers in each of the five vases.  $\frac{2}{5}$  of the flowers were orchids and the rest were lilies. How many lilies were there altogether?

Ans: \_\_\_\_\_

Do not write  
in this space

28. In a class of 40 pupils, 80% of them were able to swim. How many more pupils could swim than pupils who could not swim?

Ans: \_\_\_\_\_

- 
29. Mr Tan has between 40 and 60 sweets. If he gives 5 sweets to each of his pupils, he will have 4 sweets left. If he gives 9 sweets to each of his pupils, he will need 40 more sweets. How many pupils does Mr Tan have?

Ans: \_\_\_\_\_

(Go on to the next page)

30. Pei Hwa has \$33.40. He wants to spend all of it on 20-cent and 50-cent stamps. If he buys some of each, what is the greatest number of 50-cent stamps that he can buy?

Do not write  
in this space.

Ans: \_\_\_\_\_

End of Booklet B



**Rosyth School**  
**Second Continual Assessment 2014**  
**Primary 5 Mathematics**

Name: \_\_\_\_\_

Register No. \_\_\_\_\_

Class: Pr 5 - \_\_\_\_\_

Date: 19 Aug 2014

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 14 pages (including this cover page)**

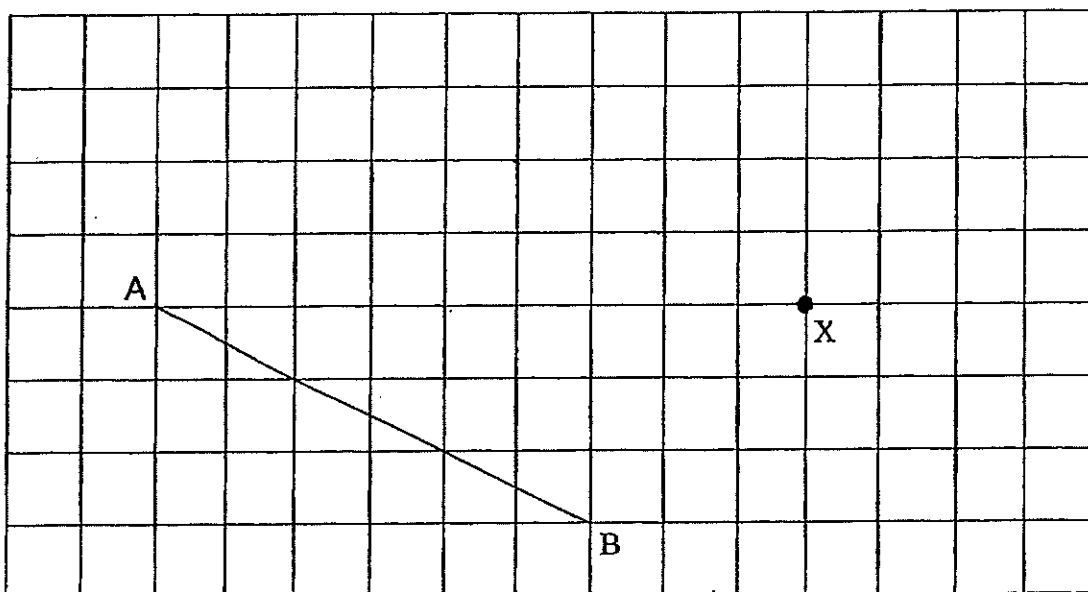
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Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

Do not write in this space

(10 marks)

1. In the square grid below, AB is a straight line. Draw a line parallel to AB and passes through point X.



2. Tom uses 2.5 l of grape juice, 1.3 l of pineapple juice and 1 l of mango juice to make some fruit punch. He pours the fruit punch equally into 16 cups. How many millilitres of fruit punch are there in each cup?

Ans: \_\_\_\_\_ ml

3. At first, the ratio of Sally's savings to Melvin's saving was 7 : 6. After Sally spent \$52 on a bag, the ratio of Sally's saving to Melvin's savings became 5 : 8. What was Melvin's savings at first?

Do not write  
in this space

Ans: \$ \_\_\_\_\_

- 
4. The ratio of the number of apples to oranges at a fruit stall was 4 : 5. After Jane bought  $\frac{1}{4}$  of the oranges, there were 558 apples and oranges left. Find the total number of apples and oranges at first.

Ans: \_\_\_\_\_



5. Jake had 60% as many erasers as stickers. After he gave 10 stickers and 10 erasers away, there were twice as many stickers as erasers. What was the total number of erasers and stickers he had at first?

Do not write  
in this space

Ans: \_\_\_\_\_

---

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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in this space

6. Mrs Raja paid \$540 for 12 skirts and 7 blouses. If the cost of 3 skirts was the same as 2 blouses, what was the cost of one skirt?

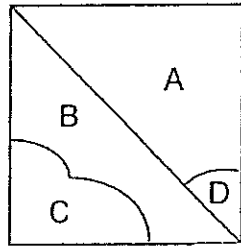
Ans: \_\_\_\_\_ [3m]

---

7. After Mr Li sold  $\frac{1}{3}$  of the puppies and  $\frac{3}{7}$  of the hamsters in his pet shop, he had an equal number of puppies and hamsters left. There were 16 hamsters left. What was the total number of puppies and hamsters he had at first?

Ans: \_\_\_\_\_ [3m]

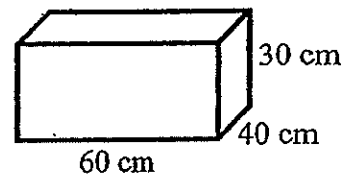
8. The square below (not drawn to scale) is divided into 4 parts A, B, C and D.



The ratio of Area A to Area B is 5 : 3. The ratio of Area B to Area C is 7 : 6.  
Find the ratio of Area C to Area D.

Ans: \_\_\_\_\_ [3m]

9. A rectangular tank measuring 60 cm by 40 cm by 30 cm is  $\frac{3}{5}$  filled with water.  
How many bottles of capacity 400 ml, when each filled completely, are needed to fill the tank to its brim?



Ans: \_\_\_\_\_ [3m]

Do not write  
in this spac

10. Bala scored 77, 78 and 82 for his first three Math tests. He wanted to improve his average marks by 4 marks in the next test. How many marks must he score for his next Math test?

Ans: \_\_\_\_\_ [3m]

- 
11. Ashley wanted to finish reading a book in a week. On the first day of the week, she read 12% of the book. On the second day, she read another 25% of the book. Then, she read 189 pages daily for the rest of the week. What was the total number of pages in the book?

Ans: \_\_\_\_\_ [3m]

12. The total mass of 3 tins of sweets and 4 tins of biscuits was 84 kg. Each tin of sweets is 800 g heavier than all the tins of biscuits.

(a) Find the mass of each tin of sweets.

(b) Find the mass of each tin of biscuits.

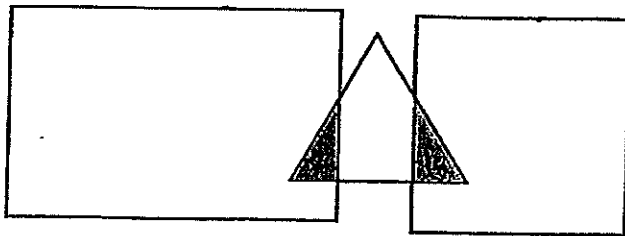
Do not write  
in this space

Ans: (a) \_\_\_\_\_ [2m]

(b) \_\_\_\_\_ [2m]

13. The figure below is not drawn to scale. It is made up of a square, a rectangle and a triangle which overlap each other to form 2 shaded triangles of equal area.  $\frac{2}{9}$  of the rectangle and  $\frac{1}{7}$  of the square is shaded. The total area of the square and rectangle is  $138 \text{ cm}^2$ . Given that  $\frac{1}{3}$  of the triangle is shaded, find the area of the unshaded triangle.

Do not write  
in this space



Ans: \_\_\_\_\_ [4m]

Do not write  
in this space

14. Tank A was completely filled with water at first. Tanks B and C were empty.

Then,  $\frac{5}{12}$  of the water in Tank A was poured into Tank B without spilling. Next,

$\frac{2}{3}$  of the water in Tank B was poured into Tank C. In the end,  $\frac{5}{6}$  of Tank C

was filled with water.

(a) Tank C measured 12 cm by 8 cm by 6 cm. What was the capacity of Tank B?

(b) What was the amount of water in Tank A at first?

Ans: (a) \_\_\_\_\_ [2m]

(b) \_\_\_\_\_ [2m]

Do not write  
in this space

15. Johari had \$96 more than his sister.

After Johari received another \$107 from his father and his sister spent \$148,  
Johari had 4 times as much money as his sister.

(a) How much did Johari have at first?

(b) In the end, how much money must Johari give to his sister so that they  
would have the same amount of money?

Ans: (a) \_\_\_\_\_ [3m]

(b) \_\_\_\_\_ [2m]



16. At a sports carnival, 60% of the events were individual events and the rest were team events. By half time, some individual events were completed. In the second half of the carnival, the percentage of team events increased to 80%, and there were 42 more team events than individual events.
- (a) How many individual events were completed at half time?
- (b) What was the total number of individual and team events at the beginning of the carnival?

Do not write  
in this space

Ans: (a) \_\_\_\_\_ [3m]

(b) \_\_\_\_\_ [2m]

Do not write  
in this space

17. Madam Shanti made some cupcakes. She sold  $\frac{1}{4}$  of them in the morning and  $\frac{5}{8}$  of the remainder in the afternoon. She sold 140 more cupcakes in the afternoon than in the morning. Then, she packed the remaining cupcakes into boxes of 15 cupcakes each.
- (a) How many cupcakes did she make at first?
- (b) How many boxes of cupcakes did she pack in the end?

Ans: (a) \_\_\_\_\_ [3m]

(b) \_\_\_\_\_ [2m]

18. The total of 4 numbers is 480. If the first number is tripled, the second number is halved, the third number increases by 58 and the fourth number decreases by 5, the four numbers will have the same value. What is the value of each of the four numbers?

Do not write  
in this space

Ans: First Number: \_\_\_\_\_  
Second Number: \_\_\_\_\_  
Third Number: \_\_\_\_\_  
Fourth Number: \_\_\_\_\_

} [5m]

**End of Paper**

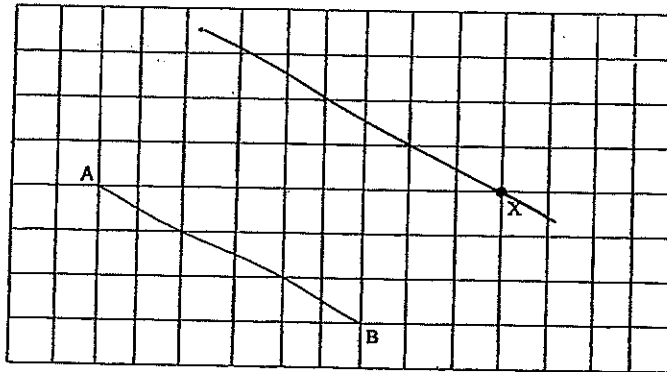


Rosyth School  
CA 2 2014  
Primary 5

- 1) 4
- 2) 3
- 3) 2
- 4) 2
- 5) 3
- 6) 1
- 7) 2
- 8) 2
- 9) 2
- 10) 3
- 11) 2
- 12) 3
- 13) 3
- 14) 3
- 15) 4
- 16) 3300
- 17)  $\frac{4}{3}/25$
- 18) 5 : 9 : 4
- 19) 72
- 20) 65%
- 21) \$50
- 22) 2 cubes
- 23)  $96 \text{ cm}^3$
- 24) 6
- 25) 5 : 4
- 26) 40 min
- 27) 30 lilies
- 28) 24 pupils
- 29)  $40+4 = 44$   
 $9-5 = 4$   
 $44/4 = 11$  pupils
- 30) 66 stamps

**Paper 2**

1)



- 2)  $2.5+1.3+1 = 4.8$  litres  
 $4800/16 = 300$  ml

3) Sally : Melvin  
 At first, 7 : 6  
 New, 5 : 8

---

At first, 56 : 48  
 New, 30 : 48

---

Difference: 26 units  
 $52/26 = \$2$   
 $48 * 2 = \$96$

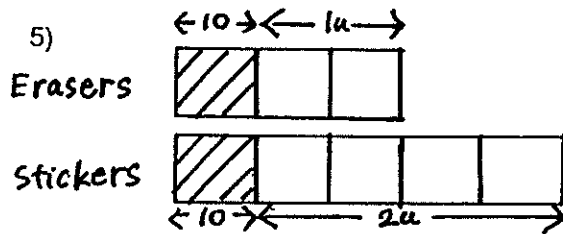
4) Apples : Oranges  
 4 : 5

$3/4 * 5 = 3 3/4$

$4 + 3 3/4 = 7 3/4$

$7 3/4$  units  $\rightarrow$  558

9 units  $\rightarrow 9 / (7 3/4) * 558 = 648$  apples and oranges at first



$8 * 10 = 80$  erasers and stickers at first

6) 3 skirts = 2 blouses

$12$  skirts =  $8$  blouses

$12$  skirts +  $7$  blouses  $\rightarrow$  \$540

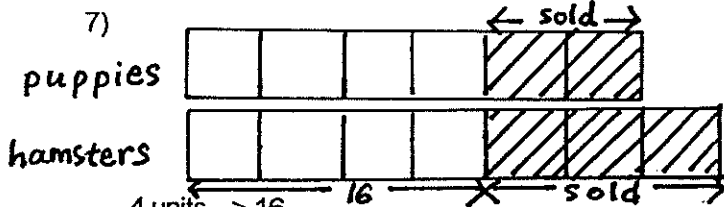
$8$  blouses +  $7$  blouses  $\rightarrow$  \$540

$15$  blouses  $\rightarrow$  \$540

$1$  blouse  $\rightarrow$  \$540 / 15 = \$36

$2$  blouses  $\rightarrow$  \$36 \* 2 = \$72

$1$  skirt = \$72 / 3 = \$24



8) A : B : C : D

5 : 3

7 : 6

---

35 : 21 : 18 : ?

Since  $A + D = B + C$

$35 + D = 21 + 18$

$35 + D = 39$

$D = 39 - 35 = 4$

$C : D = 9 : 2$

9) Volume of water =  $2/5 * 60 * 40 * 30 = 28\ 800$  ml  
 $28800/400 = 72$  bottles

10)  $77+78+82 = 237$

$237/3 = 79$

$79+4 = 83$

$83*4 = 332$

$332-237 = 95$  marks

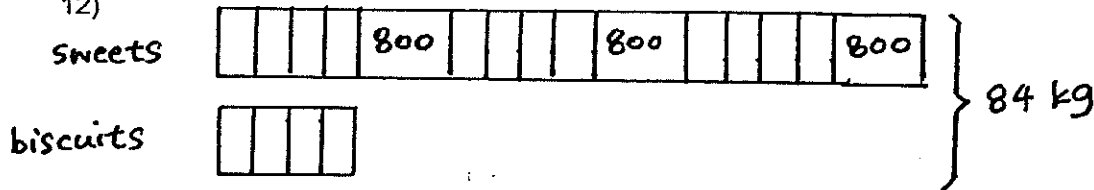
11)  $100\% - 12\% - 25\% = 63\%$

$189*5 = 945$

$945/63 = 15$

$15*100 = 1500$  pages

12)



a)  $0.8*3 = 2.4$  kg

$84-2.4 = 81.6$  kg

$81.6/4 = 20.4$  kg

$20.4+0.8 = 21.2$  kg

b)  $20.4/4 = 5.1$  kg

13)

	Unshaded : Shaded
Rectangle	7 : 2
Square	6 : 1
	= 12 : 2
Triangle	2 : 1
	= 8 : 4

Therefore,  $7+2+12+2 = 23$  units

$138/23 = 6$

$6*8 = 48$  cm<sup>2</sup>

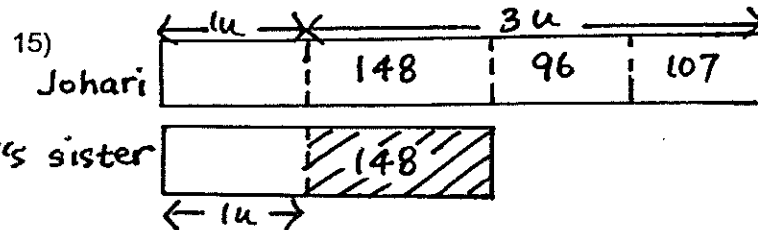
14)  $5/6 * 12 * 8 * 6 = 480$  cm<sup>3</sup>

a)  $480/2 = 240$  cm<sup>3</sup>

$240*3 = 720$  cm<sup>3</sup> (B)

b)  $720/5 = 144$  cm<sup>3</sup>

$12*144 = 1728$  cm<sup>3</sup> (A)

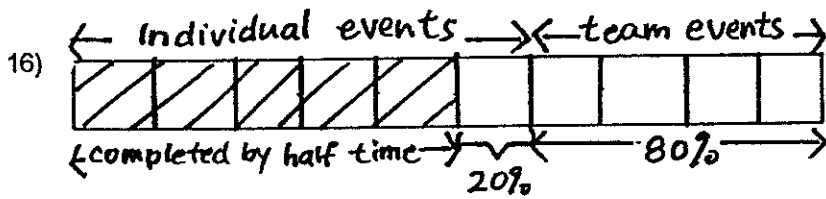


a)  $148+96+107 = \$351$

$\$351/3 = \$117$

$\$117+\$148+\$96 = \$361$

b)  $\$351/2 = \$175.50$



$$4u - 1u = 3u$$

$$42/3 = 14$$

14 \* 5 = 70 individual events were completed at half time.

$$14 * 10 = 140 \text{ events}$$



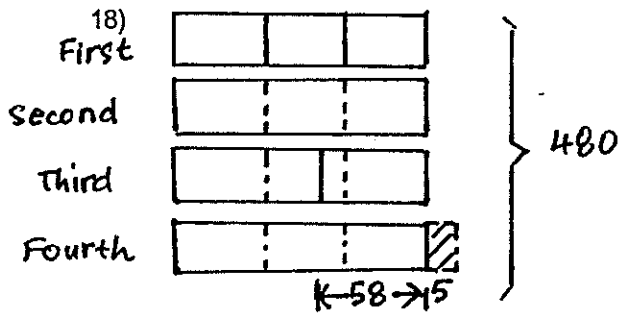
a)  $17/8 - 1 = 7/8$

$$7/8 u \rightarrow 140$$

$$4 u \rightarrow 4 / (7/8) * 140 = 640 \text{ cupcakes}$$

b)  $(1/1/8) / 4 * 640 = 180$

$$180 / 15 = 12 \text{ boxes of cupcakes}$$



$$480 + 58 - 5 = 533$$

$$533 / 13 = 41$$

$$41 * 6 = 246$$

$$41 * 3 = 123$$

$$123 - 58 = 65$$

$$123 + 5 = 128$$

1st Number : 41, 2nd Number : 246, 3rd Number : 65, 4th Number : 128





Anglo-Chinese School (Primary)

MID-YEAR EXAMINATION 2014  
MATHEMATICS  
PAPER 1 (BOOKLET A)  
PRIMARY FIVE

Name: \_\_\_\_\_ ( )

Class: Primary 5 \_\_\_\_

Date: 9 May 2014

Duration of Booklets A & B: 50 min

**INSTRUCTIONS TO CANDIDATES**

1. This question paper consists of 8 printed pages, including the cover page.
2. Do not turn this page until you are told to do so.
3. Follow all instructions carefully.
4. Shade your answers on the Optical Answer Sheet (OAS) provided.
5. You are not allowed to use a calculator.

Questions 1 to 10 carry 1 mark each. Question 11 to 15 carry 2 marks each.  
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. In the number 4 056 293, the digit 5 is in the \_\_\_\_\_ place.
- 1) hundreds
  - 2) thousands
  - 3) ten thousands
  - 4) hundred thousands
2. The number of spectators at a football match is 140 000 when rounded off to the nearest 1 000 spectators. Which one of the following is the possible number of spectators at the match?
- 1) 139 000
  - 2) 139 450
  - 3) 140 490
  - 4) 140 510
3. 6 children shared  $\frac{2}{3}$  of a pie. What fraction of the pie did each child get?
- 1)  $\frac{1}{9}$
  - 2)  $\frac{2}{9}$
  - 3)  $\frac{1}{6}$
  - 4)  $\frac{1}{3}$

4. Caleb has \$400. He spent  $\frac{2}{5}$  of it on a pair of shoes and \$60 on a bag. How much money did he spend in all?

- 1) \$ 160
- 2) \$ 180
- 3) \$ 220
- 4) \$ 340

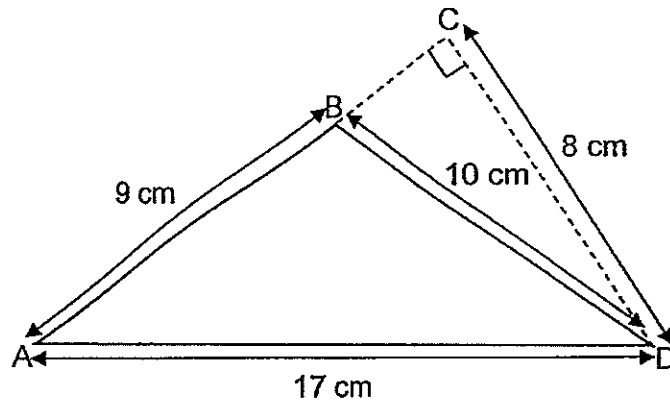
5.  $18 : 33 = 24 : \boxed{?}$   
What is the missing number in the box?

- 1) 39
- 2) 44
- 3) 51
- 4) 57

6. Find the value of  $100 - 46 \div 2 + 7$ .

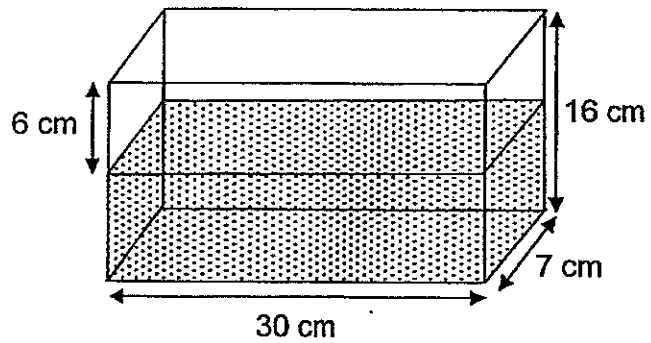
- 1) 6
- 2) 34
- 3) 70
- 4) 84

7. The figure below is not drawn to scale.  $AB = 9$  cm,  $AD = 17$  cm and  $BD = 10$  cm. Find the area of the triangle ABD.



- (1)  $85 \text{ cm}^2$
- (2)  $45 \text{ cm}^2$
- (3)  $36 \text{ cm}^2$
- (4)  $24 \text{ cm}^2$

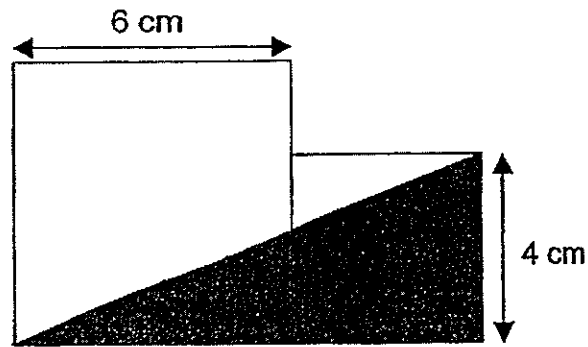
8. A container is filled with some water as shown below. How much more water is needed to fill the container completely?



- 1)  $1\,260\text{ cm}^3$
  - 2)  $1\,680\text{ cm}^3$
  - 3)  $2\,100\text{ cm}^3$
  - 4)  $3\,360\text{ cm}^3$
9. Elwin saves \$93 a month. How much will he save in 3 years?
- 1) \$ 279
  - 2) \$ 1 116
  - 3) \$ 2 790
  - 4) \$ 3 348

10. There were 1 050 children, women and men at the museum. There were 54 more children than women and twice as many men as women. How many women were there?
- 1) 249
  - 2) 303
  - 3) 498
  - 4) 996
11. Melvin had 256 jelly beans. He gave  $\frac{1}{4}$  of them to Roger and  $\frac{5}{8}$  of it to Dylan. How many jelly beans did he have left?
- 1) 32
  - 2) 64
  - 3) 96
  - 4) 160
12. The ratio of the number of Ernest's stamps to the number of Peter's stamps was 2 : 5. After Ernest gave  $\frac{1}{4}$  of his stamps to Peter, he was left with 51 stamps. How many stamps did Peter have in the end?
- 1) 17
  - 2) 51
  - 3) 187
  - 4) 238

13. The figure is made up of 2 squares of different sizes. Find the area of the unshaded portion.



- 1)  $20 \text{ cm}^2$   
2)  $32 \text{ cm}^2$   
3)  $36 \text{ cm}^2$   
4)  $62 \text{ cm}^2$
14. Joanne and Lola shared 39 beads such that Joanne received 3 more beads than Lola. Find the ratio of the number of Joanne's beads to that of Lola's.

- 1) 1 : 4  
2) 7 : 6  
3) 7 : 8  
4) 15 : 13

15. The table below shows the parking charges of AB Shopping Mall. Vanessa parked her car at the carpark from 2.40 p.m. to 4.55 p.m. on the same day. How much did Vanessa pay for parking her car?

PARKING CHARGES	
For the first hour	\$6
For every additional $\frac{1}{2}$ hour or part thereof	\$1.50

- 1) \$7.50
- 2) \$10.50
- 3) \$12
- 4) \$18





Anglo-Chinese School (Primary)

MID-YEAR EXAMINATION 2014  
MATHEMATICS  
PAPER 1 (BOOKLET B)  
PRIMARY FIVE

Name: \_\_\_\_\_ ( ) Class: Primary 5 \_\_\_\_

Date: 9 May 2014

Duration of Paper Booklets A & B: 50 min

\_\_\_\_\_  
Parent's/Guardian's signature

**INSTRUCTIONS TO CANDIDATES**

1. This question paper consists of 8 printed pages, including the cover page.
2. Do not turn this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. You are not allowed to use a calculator.

Section	Maximum Marks	Marks Obtained
Paper 1 Booklet A. Multiple-Choice Questions	20	
Paper 1 Booklet B. Short Answers: Part 1	10	
Paper 1 Booklet B. Short Answers: Part 2	10	
<b>Total Marks</b>	<b>40</b>	

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. How many thousands are there in 4 967 000?

Answer: \_\_\_\_\_

17. How many fifths are there in  $6\frac{1}{5}$ ?

Answer: \_\_\_\_\_

18. Complete the number pattern below.

Answer: \_\_\_\_\_

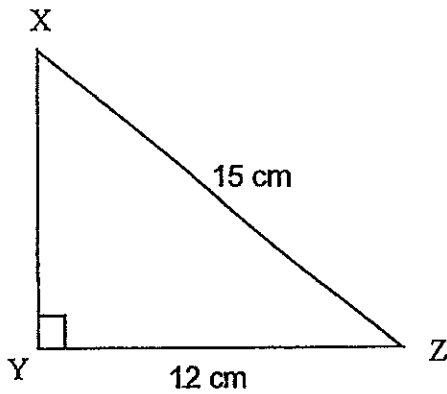
19. Mr Tan, his wife and 3 children went to a carnival. The ratio of the price of each adult ticket to the price of each child ticket was 5 : 3. If Mr Tan paid a total of \$57, what was the price of each adult ticket?

Answer: \$ \_\_\_\_\_

20. Ms Kelly uses  $\frac{3}{4}$  cup of flour for every cake that she bakes. How many cups of flour will she use to bake 16 cakes?

Answer: \_\_\_\_\_

21. In the figure below, not drawn to scale, XYZ is a triangle.  $YZ = 12$  cm and  $XZ = 15$  cm. If the perimeter of the triangle  $XYZ = 36$  cm, find the area of the triangle XYZ.



Answer: \_\_\_\_\_  $\text{cm}^2$

22. Xavier had 1 236 balloons. He sold them in packets of 12 balloons each. How much money would he receive if he sold each packet of balloons at \$8?

Answer: \$ \_\_\_\_\_

23. Eric is thrice as heavy as Freddy and Derrick is twice as heavy as Eric. Eric is 26 kg heavier than Freddy. What is Derrick's mass?

Answer: \_\_\_\_\_ kg

24. The difference between  $\frac{3}{4}$  of a number and  $\frac{1}{2}$  of the same number is 10. What is the number?

Answer: \_\_\_\_\_

25. The total volume of some metal balls is  $512 \text{ cm}^3$ . These metal balls are melted and recast into 2-cm cubes. How many cubes are there?

Answer: \_\_\_\_\_

Questions 26 to 30 carry 2 marks each. Show all mathematical statements clearly in the space below each question and write your answers in the spaces provided. Give your answers to the units stated and to its simplest form whenever necessary. (10 marks)

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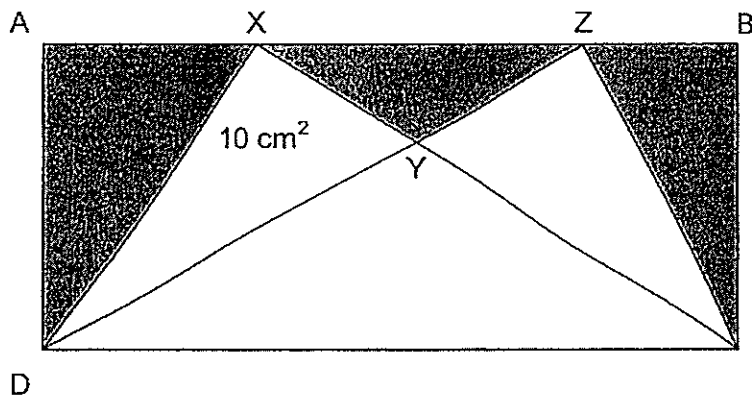
26. The ratio of the number of guinea pigs to the number of rabbits in a pet shop was 2 : 5. After 3 rabbits were sold, the ratio of the number of guinea pigs to the number of rabbits became 1 : 2. How many animals were there in the shop at first?

Answer: \_\_\_\_\_

27. There are between 60 and 100 marbles in a container. The marbles can be shared equally among 4 children. They can also be shared equally among 7 children. How many marbles are there in the container?

Answer: \_\_\_\_\_

28. In the figure below, not drawn to scale, the area of rectangle ABCD is  $120 \text{ cm}^2$ . If the area of the triangle XYD is  $10 \text{ cm}^2$ , find the total shaded area of the figure?

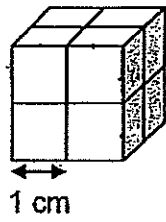


Answer: \_\_\_\_\_  $\text{cm}^2$

29. After Yeva travelled  $\frac{1}{6}$  of a journey by bus and  $\frac{1}{2}$  of the remaining journey by taxi, she was 1 250 m away from her destination. What was the distance of her whole journey?

Answer: \_\_\_\_\_ m

30. Mr Fong made the solid figure below using 1-cm cubes. How many more cubes must be added to it to make a 3-cm cube?



Answer: \_\_\_\_\_





Anglo-Chinese School (Primary)

MID-YEAR EXAMINATION 2014  
MATHEMATICS  
PAPER 2  
PRIMARY FIVE

Name: \_\_\_\_\_ (    )                      Class: Primary 5 \_\_\_\_

Date: 9 May 2014

Duration of Paper 2: 1h 40min

\_\_\_\_\_  
Parent's/Guardian's signature

**INSTRUCTIONS TO CANDIDATES**

1. This question paper consists of 15 printed pages, including the cover page.
2. Do not turn this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. You are allowed to use a calculator.

Section	Maximum Marks	Marks Obtained
Paper 2 Section A. Short Answers	10	
Paper 2 Section B. Problem Sums	50	
Total Marks	60	

Questions 1 to 5 carry 2 marks each. Show your mathematical statements clearly in the space provided for each question and write your answers in the spaces provided. Give your answers to the units stated and to its simplest form whenever necessary. (10 marks)

---

1.  $\frac{2}{9}$  of the cost of a dining table is equal to the cost of a chair.

If the dining table costs \$549, what is the cost of the chair?

Answer: \$ \_\_\_\_\_

A gift basket contained 90 chocolate bars and some sweets at a children's party. After  $\frac{3}{5}$  of the chocolate bars and  $\frac{5}{8}$  of the sweets were taken by the children, there was an equal number of chocolate bars and sweets left. Find the number of sweets in the gift basket at first.

Answer: \$ \_\_\_\_\_

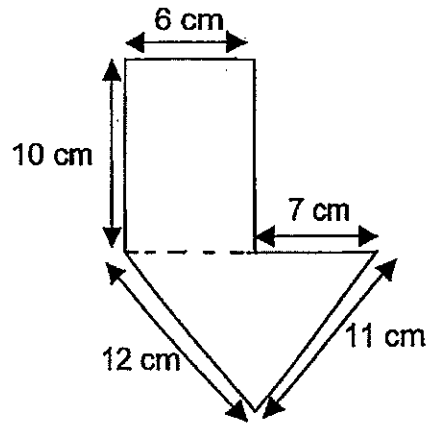
3. Mrs Lim is 41 years old and her daughter is 14 years old. How many years ago was Mrs Lim four times as old as her daughter?

Answer: \_\_\_\_\_

4. 4 apples and 5 pears cost \$6.20. 1 apple and 2 pears cost \$2.  
Find the cost of 1 pear.

Answer: \$ \_\_\_\_\_

5. The figure below, not drawn to scale, is made up of a triangle and a rectangle. Find its perimeter.



Answer: \_\_\_\_\_ cm

For questions 6 to 18, show your steps 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.

The number of marks available is shown in brackets [ ] at the end of each question or part-question. (50 marks)

---

6.  $\frac{2}{5}$  of the people at the cinema are adults.  $\frac{4}{9}$  of the remainder are boys and the rest are girls. There are 2 250 girls. How many people are there at the cinema?

Answer: \_\_\_\_\_ [3]

7. Jane and Shirley each had an equal amount of money at first. After Jane gave \$250 to Shirley, the ratio of Jane's money to Shirley's money was 3 : 8. How much money did Jane have in the beginning?

Answer : \_\_\_\_\_ [3]

8. A crate has a mass of 45 kg when it is half-filled with oranges. Its mass is 35 kg when it is  $\frac{1}{3}$  filled with oranges. What is the mass of the crate?

Answer: \_\_\_\_\_ [3]

9. For every mobile phone that Mr Ahmad sells, he earns \$35. He earns an extra \$8 if he sells 15 mobile phones. In the month of May, he earned \$1 774. How many mobile phones did he sell in May?

Answer: \_\_\_\_\_ [3]

10. There were a total of 120 chairs and tables in a furniture shop. There were 4 times as many chairs as tables. After 36 chairs and some tables were sold, there were 3 times as many chairs as tables left. How many tables were sold?

Answer: \_\_\_\_\_ [3]

11. A pen is sold for \$5. A pencil costs \$2 less than a pen. Mr Neo collected \$630 from the sale of pens and pencils at the end of a day. He sold thrice as many pens as pencils. How much more money did he collect from the sale of pens than from pencils?

Answer: \_\_\_\_\_ [4]



12. At a concert, there were  $\frac{1}{2}$  as many men as women and  $\frac{7}{12}$  as many children as adults. There were 70 fewer children than women. How many people were at the concert?

Answer: \_\_\_\_\_ [4]

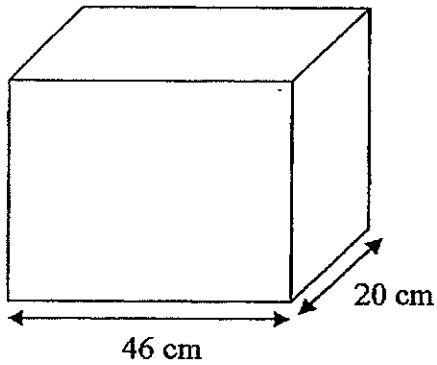
13. Lena bought 4 similar blouses with  $\frac{1}{2}$  of her money. She also bought a handbag which cost \$25 more than each blouse. Then she had \$68 left.

- (a) What fraction of her money did Lena spend on each blouse?
- (b) How much money did she have at first?

Answer : (a) \_\_\_\_\_ [1]

(b) \_\_\_\_\_ [3]

14. A rectangular fish tank, 46 cm long and 20 cm wide, was filled with water to its brim. After 8 scoops of water were removed from the fish tank, the tank was  $\frac{1}{5}$  full. The volume of water in each scoop was  $2\,300\text{ cm}^3$ . What was the height of the fish tank?



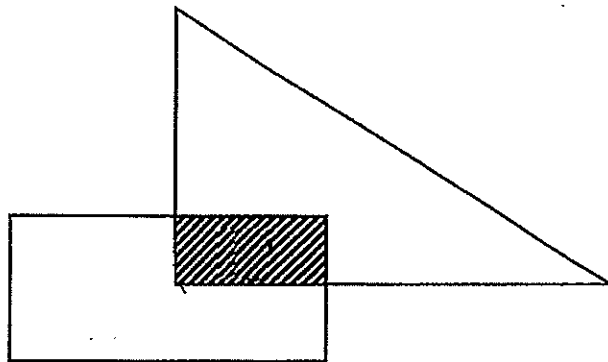
Answer: \_\_\_\_\_ [4]

15. In the figure below, the ratio of the area of the triangle to the area of the rectangle is 4 : 3. The area of the triangle is  $256 \text{ cm}^2$ .

$\frac{1}{4}$  of the rectangle overlaps with the triangle.

Find

- (a) the area of the rectangle  
(b) the area of the unshaded parts of the figure.



Answer: (a) \_\_\_\_\_ [1]

(b) \_\_\_\_\_ [3]

16. Alan, Bill and Carl shared \$372. After Alan spent  $\frac{2}{5}$  of his share, Bill spent  $\frac{1}{2}$  of his share and Carl spent  $\frac{1}{3}$  of his share, the boys found they had the same amount of money left.
- (a) What is the ratio of Alan's share to Bill's share to Carl's share?  
(Express your answer in its simplest form.)
- (b) How much did they spend altogether?

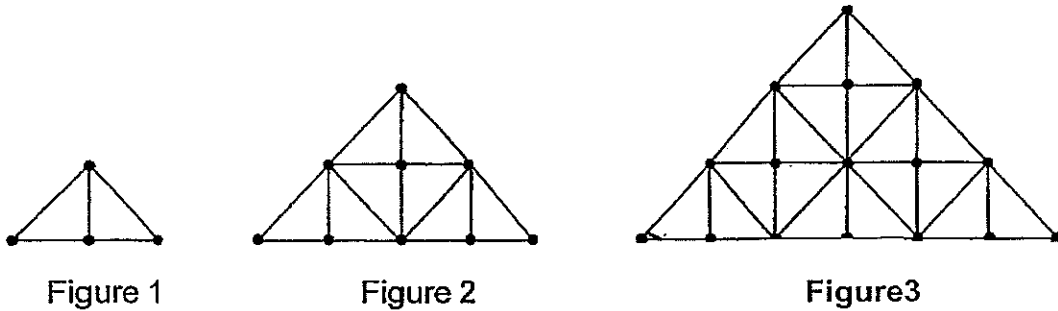
Answer: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [3]

17.  $\frac{3}{8}$  of the stamps in an album are local stamps. The rest are Japanese and Chinese stamps. The ratio of Japanese stamps to number of Chinese stamps is 7 : 3. If there are 80 more Japanese stamps than Chinese stamps, what is the total number of stamps in the album?

Answer: \_\_\_\_\_ [5]

18. The following figures are made up of small right-angled triangles.  
A dot is placed at the corner of each small right-angled triangle.



The total number of dots and small right-angled triangles in each figure is shown in the table below.

Figure	Total number of dots	Number of small right-angled triangles
1	4	2
2	9	8
3	16	18
4		

- a) Fill in the blanks in the table above for Figure 4. [1]
- b) Find the number of dots in Figure 49.
- c) Find the number of small right-angled triangles in Figure 15.

Answer: b) \_\_\_\_\_ [2]

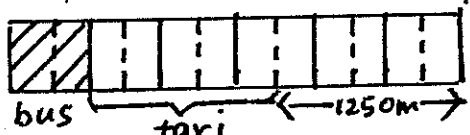
c) \_\_\_\_\_ [2]

**End of Paper 2**



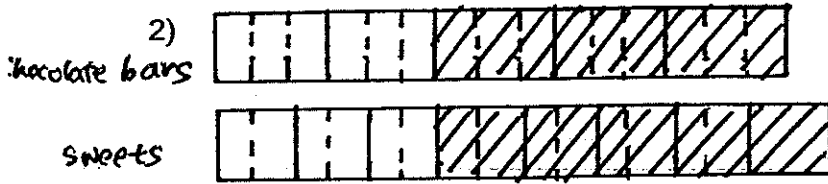


**Anglo-Chinese School (Primary)**  
**Mid-Year Examination 2014**  
**Mathematics Primary 5**

- 1) 3
- 2) 3
- 3) 1
- 4) 3
- 5) 2
- 6) 4
- 7) 3
- 8) 1
- 9) 4
- 10) 1
- 11) 1
- 12) 3
- 13) 2
- 14) 2
- 15) 2
- 16) 4967
- 17) 31
- 18) 133 692
- 19) \$15
- 20) 12 cups
- 21) 54 cm<sup>2</sup>
- 22)  $1236/12 = 103$   
 $103 * \$8 = \$824$
- 23) 78 kg
- 24)  $10 * 4 = 40$
- 25) 64
- 26) G : R  
 $2 : 5$   
 $2 : 4$   
 $1u \rightarrow 3$   
 $7u \rightarrow 7 * 3 = 21$  animals
- 27) Common multiple of 4 & 7 = 28  
 $28 * 3 = 84$
- 28) Triangle CYZ = 10 sq cm  
 $20 + CDY + \text{shaded area} = 120$   
 $CDY + \text{shaded area} = 120 - 20 = 100$   
 $10 + CDY = 120/2 = 60$   
 $CDY = 60 - 10 = 50$   
Hence, shaded area =  $100 - 50 = 50$  sq cm
- 29)   
 $5u \rightarrow 1250m$   
 $12u \rightarrow 12/5 * 1250 = 3000m$
- 30)  $3 * 3 * 3 = 27$   
 $27 - 8 = 19$  more cubes

Paper 2

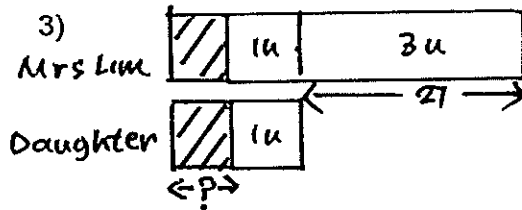
1)  $2/9 * \$549 = \$122$



$90/5 = 18$

$18/3 = 6$

$16 * 6 = 96$  sweets



$27/3 = 9$

$14 - 9 = 5$  years ago

4) 1 apple + 2 pears  $\rightarrow$  \$2

4 sets,

4 apples + 8 pears  $\rightarrow$   $\$2 * 4 = \$8$

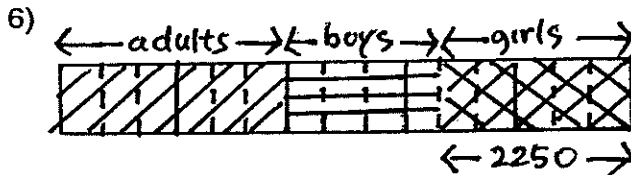
4 apples + 5 pears  $\rightarrow$  \$6.20

---

Difference, 3 pears  $\rightarrow$   $\$8 - \$6.20 = \$1.80$

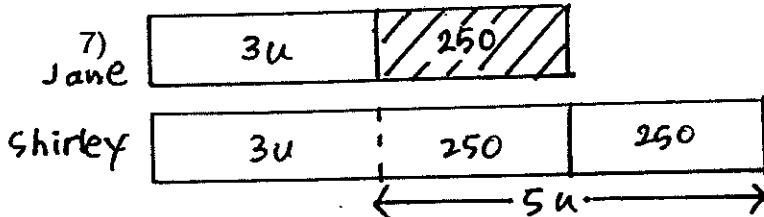
1 pear  $\rightarrow$   $\$1.80/3 = \$0.60$

5)  $6 + 10 + 10 + 7 + 11 + 12 = 56$  cm



$5u \rightarrow 2250$

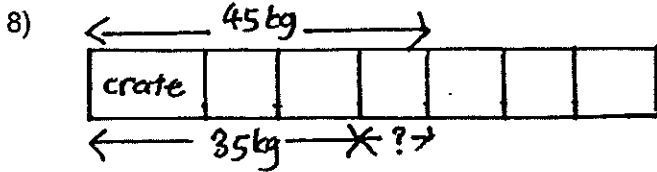
$15u \rightarrow 15/5 * 2250 = 6750$



$5u \rightarrow \$250 + \$250 = \$500$

$3u \rightarrow 3/5 * \$500 = \$300$

$\$300 + \$250 = \$550$

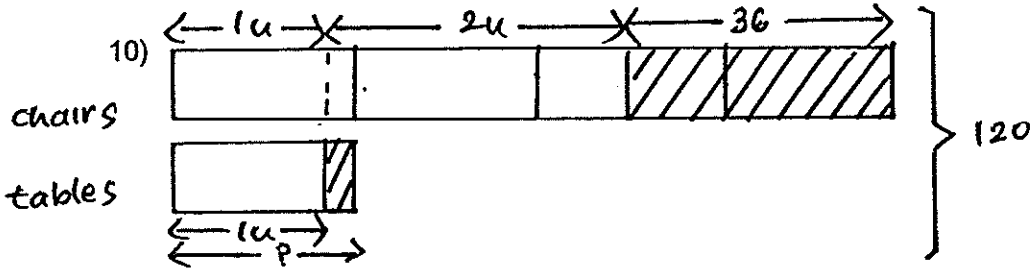


$$45 - 35 = 10\text{kg}$$

$$2 * 10\text{kg} = 20\text{kg}$$

$$35\text{kg} - 20\text{kg} = 15\text{kg}$$

- 9)  $15 * \$35 = \$525$   
 $\$525 + \$8 = \$533$   
 $\$1774 / \$533 = 3 \text{ sets R175}$   
 $\$175 / \$35 = 5$   
 $3 * 15 = 45$   
 $45 + 5 = 50$  mobile phones were sold in May



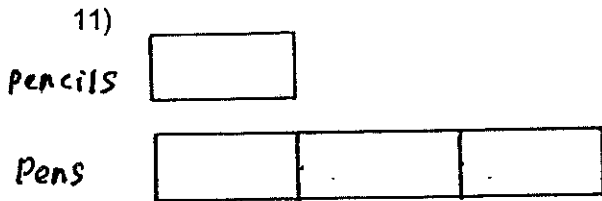
$$120 / 5 = 24 \text{ (number of tables)}$$

$$24 * 4 = 96 \text{ (number of chairs)}$$

$$96 - 36 = 60 \text{ (number of chairs left)}$$

$$60 / 3 = 20 \text{ (number of tables left)}$$

$$24 - 20 = 4 \text{ tables were sold}$$



$$\$5 * 3 = \$15$$

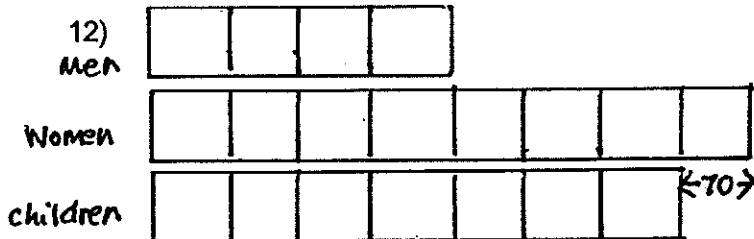
$$\$15 + \$3 = \$18$$

$$\$630 / \$18 = 35$$

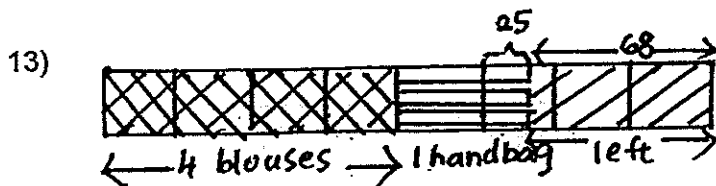
$$35 * \$3 = \$105$$

$$\$105 * 5 = \$525$$

$$\$525 - \$105 = \$420 \text{ more was collected from the sale of pens than from pencils.}$$



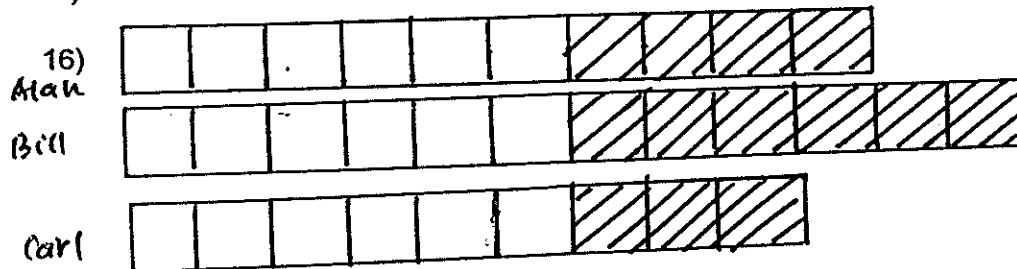
$$19 * 70 = 1330 \text{ were at the concert.}$$



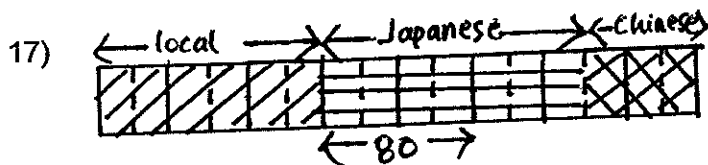
- a)  $\frac{1}{8}$   
 $\$25 + \$68 = \$93$   
 $\$93/3 = \$31$
- b)  $\$31 * 8 = \$248$  at first

- 14)  $2300 * 8 = 18\,400 \text{ cm}^3$  (4 units)  
 $18400/4 = 4600 \text{ cm}^3$   
 $4600 * 5 = 23\,000 \text{ cm}^3$  (volume of the tank)  
 $23000/(46 * 20) = 25 \text{ cm}$

- 15)  $256/4 = 64 \text{ cm}^2$
- a)  $64 * 3 = 192 \text{ cm}^2$   
 $192/4 = 48 \text{ cm}^2$
- b)  $256 - 48 + 192 - 48 = 352 \text{ cm}^2$



- a)  $10 : 12 : 9$
- b)  $\$372/31 = \$12$   
 $\$12 * 13 = \$156$

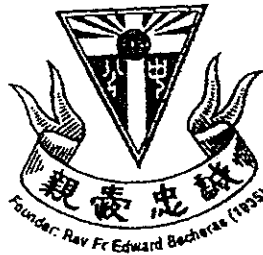


$$7u - 3u = 4u$$

$$80/4 = 20$$

$$16 * 20 = 320 \text{ stamps}$$

- 18a) 25, 32
- b)  $50 * 50 = 2500$
- c)  $15 * 15 * 2 = 450$



**CATHOLIC HIGH SCHOOL**  
**MID-YEAR EXAMINATION 2014**  
**MATHEMATICS**  
**PRIMARY 5**  
**PAPER 1**  
**(BOOKLET A)**

Name : \_\_\_\_\_ (            )

Class: Primary 5 \_\_\_\_\_

Date: 20 May 2014

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 12 printed pages.

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. In 1 234 567, which digit is in the ten thousands place?

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

2. What is the sum of all the common factors of 8 and 12?

- (1) 6
  - (2) 7
  - (3) 14
  - (4) 15
- 

3. Express 12 : 20 in its simplest form.

- (1) 1 : 2
  - (2) 1 : 9
  - (3) 3 : 4
  - (4) 3 : 5
- 

4. Round off 3.175 to the nearest tenth.

- (1) 3.1
  - (2) 3.2
  - (3) 3.17
  - (4) 3.18
- 

(Go on to the next page)

5. Find the value of  $\frac{4}{7} - \frac{1}{3}$

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

(2)  $\frac{5}{21}$

(3)  $\frac{7}{21}$

(4)  $\frac{12}{21}$

---

6.  $\frac{6}{15} = \frac{\square}{35}$

What is the missing number in the box?

(1) 7

(2) 2

(3) 14

(4) 26

---

7.  $245 \times 48 = 245 \times 50 - \square$

What is the missing number in the box?

(1) 48

(2) 2

(3) 245

(4) 490

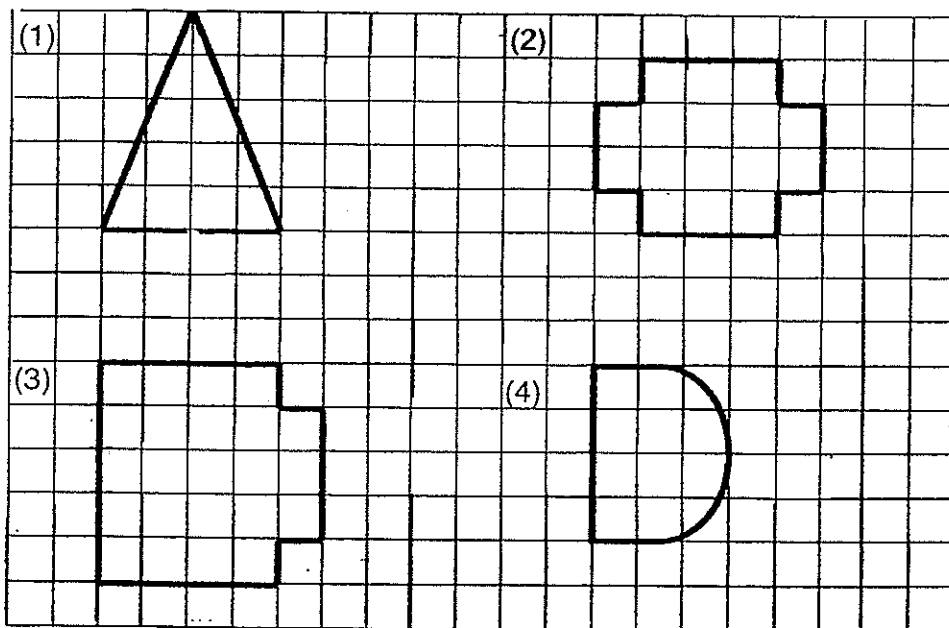
---

(Go on to the next page)

8. The area of a square is  $36 \text{ cm}^2$ . What is the length of each side of the square?

- (1) 6 cm
- (2) 9 cm
- (3) 12 cm
- (4) 18 cm

9. The following figures are drawn on a square grid. Which one of the following figures has 2 lines of symmetry?



(Go on to the next page)



10. Find the product of  $\frac{3}{4}$  and 12.

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

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

(3) 9

(4) 16

---

11. Joshua bought a sack of coffee powder. He repacked the coffee powder equally into six smaller bags. The mass of coffee powder in each bag was 1.3 kg. He had 0.4 kg of coffee powder left unpacked. How much coffee powder did Joshua buy at first?

(1) 1.7 kg

(2) 7.4 kg

(3) 7.8 kg

(4) 8.2 kg

---

12. The number of cookies Peter has to the number of cookies James has is 5 : 3. Peter has 20 cookies more than James. How many cookies do they have altogether?

(1) 10

(2) 30

(3) 50

(4) 80

---

(Go on to the next page)

13. Joseph bought  $\frac{5}{8}$  kg of flour. He packed the flour equally into 4 bags with no flour left over. What is the total mass of 1 bag of flour?

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

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

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

(4)  $6\frac{2}{5}$  kg

---

14. John bought  $\frac{4}{5}$  m of string. He then used  $\frac{3}{4}$  of the string to tie a parcel. How much of the string was left?

(1)  $\frac{1}{20}$  m

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

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

(4)  $\frac{3}{5}$  m

---

15. Abigail and Bonnie had an equal number of marbles at first. After Abigail gave away 150 marbles and Bonnie lost 30 marbles, Bonnie had thrice as many marbles as Abigail. How many marbles did Abigail have in the end?

(1) 60

(2) 90

(3) 120

(4) 180

---



**CATHOLIC HIGH SCHOOL**  
**MID-YEAR EXAMINATION 2014**  
**MATHEMATICS**  
**PRIMARY 5**  
**PAPER 1**  
**(BOOKLET B)**

Name : \_\_\_\_\_ (                    )

Class: Primary 5. \_\_\_\_\_

Date: 20 May 2014

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 12 printed pages.

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. Write one million, seven hundred and eighty-nine thousand and thirty-five in figures.

Ans:

17. Express 3.375 as a mixed number in the simplest form.

Ans: \_\_\_\_\_

18. Round off 27 495 to the nearest thousand.

Ans: \_\_\_\_\_

(Go on to the next page)

19. Joseph had 13 000 sweets. He packed all of them equally into bags of 500 sweets each. How many bags did Joseph use?

Do not write in this space.

Ans: \_\_\_\_\_

20. Sam made some fruit punch with  $1\frac{1}{4}$  ℓ of orange juice and  $2\frac{1}{6}$  ℓ of water. How much fruit punch did Sam make?

Ans: \_\_\_\_\_ ℓ

21. What is the smallest 5-digit odd number that can be formed using the following digits? All digits must be used and each digit can only be used once.

3   6   0   5   2

Ans: \_\_\_\_\_

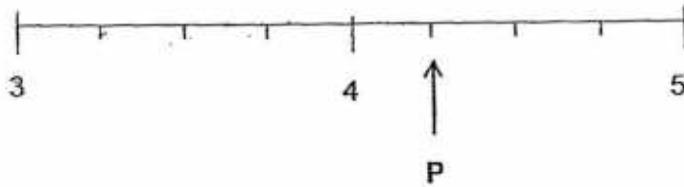
(Go on to the next page)

22. Find the value of  $870 - 10 \times (35 - 15) + 2$ .

Do not write  
in this space.

Ans: \_\_\_\_\_

23. What is the value of P in the number line below?  
Give your answer as a decimal.



Ans: \_\_\_\_\_

(Go on to the next page)

24. A machine can print 3000 cards every 15 minutes. How many cards can it print in 1 hour?

Do not write in this space.

Ans: \_\_\_\_\_

25. Jimmy has 30 marbles. Sammy has 40 marbles more than Jimmy. Find the ratio of Sammy's marbles to the total number of marbles the two boys have.  
Express the ratio in the simplest form.

Ans: \_\_\_\_\_

Total marks for questions 16 to 25

(Go on to the next page)

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 value of  $5 \div 3$ . Give your answer correct to 2 decimal places.

Ans: \_\_\_\_\_

27. Arrange the following fractions from the smallest to the largest.

Ans: \_\_\_\_\_

(Go on to the next page)

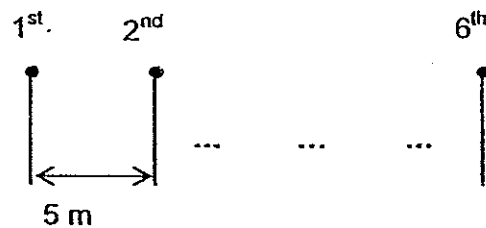


28. The ratio of the number of hamsters to the number of rabbits to the number of chinchillas in a pet shop is 4 : 5 : 3. There are a total of 288 animals. How many chinchillas are there in the pet shop?

Do not write  
in this space.

Ans: \_\_\_\_\_

29. Peter placed some pins in a straight line at equal distance from one another on the floor. The distance between the 1<sup>st</sup> and the 2<sup>nd</sup> pin is 5 m. Find the distance between the 1<sup>st</sup> and the 6<sup>th</sup> pin.

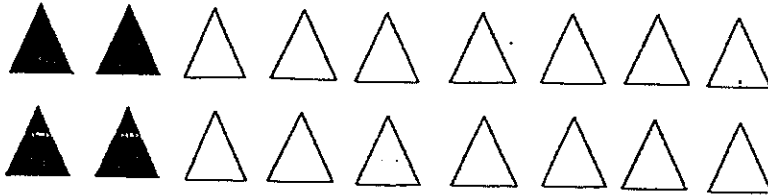


m

(Go on to the next page)

30. How many more triangles must be shaded so that the ratio of the number of unshaded triangles to the total number of triangles is 1 : 3?

Do not write in this space.



Ans: \_\_\_\_\_

Total marks for questions 26 to 30

END OF BOOKLET B  
END OF PAPER 1



**CATHOLIC HIGH SCHOOL**  
**MID-YEAR EXAMINATION 2014**  
**MATHEMATICS**  
**PRIMARY 5**  
**PAPER 2**

Name : \_\_\_\_\_ (                    )

Class: Primary 5 \_\_\_\_\_

Date: 20 May 2014

Total Time: 1 h 40 min

Parent's Signature: \_\_\_\_\_

Paper 1 Booklet A	20
Paper 1 Booklet B	20
Paper 2	60
<b>Total Marks</b>	<b>100</b>

**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.

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 space.

1. Susie is twice as heavy as Joan. Mary weighs  $\frac{1}{3}$  of Joan's weight. The 3 girls weigh 105 kg. How heavy is Mary?

Ans: \_\_\_\_\_ kg

2. The ratio of the number of blue beads to the number of red beads on a chain is 3:2. How many blue beads are there if there are 140 red beads?

Ans: \_\_\_\_\_

3. Ken had 250 bottle caps. He gave  $\frac{2}{5}$  of the bottle caps to his neighbour.  
How many bottle caps did he have left?

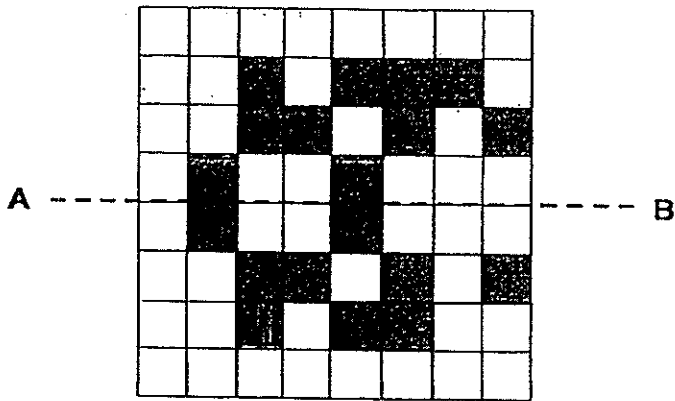
Do not write  
in this space.

Ans: \_\_\_\_\_

4. Jia Wei bought 1500 g of strawberries at \$1.55 per 100 g. How much did he pay for the strawberries?

Ans: \$ \_\_\_\_\_

5. The dotted line AB is a line of symmetry.  
Shade 2 squares to form a symmetric figure.



Do not write  
in this space.



(Go on to the next page)

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. At a carnival,  $\frac{1}{3}$  of the people are children and  $\frac{1}{9}$  of the people are men. The rest are women. There are 400 women. How many people are there at the carnival?

Ans: \_\_\_\_\_ [3]

(Go on to the next page)

7. A total of 300 files and notebooks were given to some children. Each child received 3 files and 2 notebooks. How many files were there?

Do not write  
in this space.

Ans: \_\_\_\_\_ [3]

(Go on to the next page)



8. Amy and Benny had 615 stickers. Benny and Charles had 318 stickers. Amy had 4 times as many stickers as Charles. How many stickers did Charles have?

Do not write  
in this space.

Ans: \_\_\_\_\_ [3]

(Go on to the next page)

9. Catherine had three as much money as Andy at first. After Catherine gave Andy \$450, Andy had 7 times as much money as Catherine. How much money did Catherine have at first?

Do not write  
in this space.

Ans: \_\_\_\_\_ [3]

(Go on to the next page)

10. Alan and Belinda had 540 cards at first. After Alan sold 80 cards and Belinda bought 20 more cards, each of them had the same number of cards left. How many cards did Alan have at first?

Do not write  
in this space.

Ans: \_\_\_\_\_ [3]

(Go on to the next page)

11. Linda spent \$500 of her salary on transport. She spent  $\frac{4}{7}$  of her remaining money on food. If she had  $\frac{1}{3}$  of her salary left, how much was her salary?

Do not write  
in this space.

Ans: \_\_\_\_\_ [4]

(Go on to the next page)

12. The table shows the charges for bicycle rental.

Do not write  
in this space.

BICYCLE FOR RENTAL	
Charges for the first bicycle :	
For first hour	\$6
For every additional $\frac{1}{2}$ hour	\$2
Charges for the second bicycle onwards	Half the charges for the first bicycle.

Larry rented 2 bicycles at the same time and paid a total of \$24. What is the maximum number of hours Larry rented the bicycles for?

Ans: \_\_\_\_\_ [4]

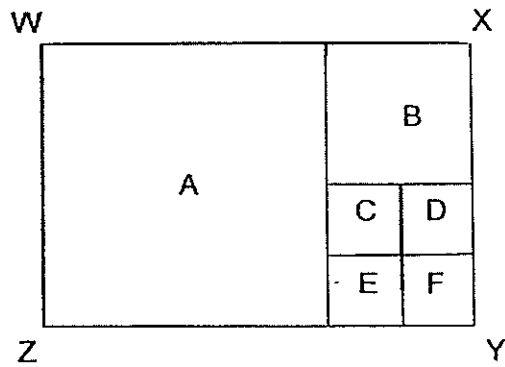
13. Melvin has 155 stamps more than Danny. Edward has thrice the total number of stamps that Melvin and Danny have. The 3 boys have 2780 stamps altogether. How many stamps does Melvin have?

Do not write  
in this space.

Ans: \_\_\_\_\_ [4]

(Go on to the next page)

14. The rectangular figure WXYZ is made up of 6 squares, A, B, C, D, E and F. Squares C, D, E and F are identical. The perimeter of square B is 64 cm. Express the area of square F as a fraction of the area of square A. Leave your answer in the simplest form.



Do not write  
in this space.

Ans: \_\_\_\_\_ [4]

(Go on to the next page)



15. At a fruit stall, the apples were sold at \$0.50 each.  
Mangoes were sold at \$2 each.  
Queenie bought a total of 35 mangoes and apples for \$25.  
How many apples did she buy?

Do not write  
in this space.

Ans: \_\_\_\_\_ [4]

(Go on to the next page)



16. A group of children shared a bag of sweets. Every boy was given 3 sweets and every girl was given 4 sweets. The ratio of the number of boys to the number of girls was 1 : 2. There were 748 sweets in the bag. How many children were there in the group?

Do not write  
in this space.

Ans: \_\_\_\_\_ [5]

(Go on to the next page)



17. Nathan and Owen were given a box of chocolates. Nathan took  $\frac{1}{4}$  of the chocolates and 5 more pieces of chocolates from the box. Owen took  $\frac{1}{5}$  of the remaining chocolates and 4 more pieces of chocolates from the box. There were 28 pieces of chocolates left. How many pieces of chocolates were in the box at first?

Do not write  
in this space.

Ans:

[5]

(Go on to the next page)



18. Gerald bought an equal number of cupcakes and tarts for a party. The cupcakes were bought at 7 for \$20 and the tarts were bought at 5 for \$30. He paid \$550 more for the tarts than for the cupcakes. How much did Gerald pay for the cupcakes and tarts altogether?

Do not write  
in this space.

Ans.: \_\_\_\_\_ [5]

End of Paper 2



## EXAMS PAPER 2014

SCHOOL: CATHOLIC HIGH SCHOOL  
SUBJECT: MATHEMATICS  
LEVEL: PRIMARY 5  
TERM: SA1

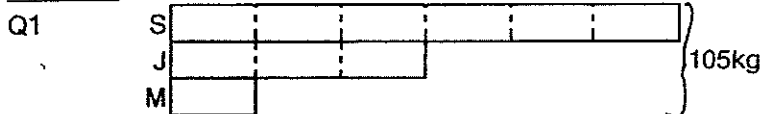
### PAPER 1 BOOKLET A

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

### BOOKLET B

- Q16 1789035  
Q17  $3\frac{3}{4}$   
Q18 27000  
Q19 26  
Q20  $3\frac{5}{12}$   
Q21 20365  
Q22 672  
Q23 4.25  
Q24 12000 cards  
Q25 7:10  
Q26 1.67  
Q27  $\frac{1}{2}, \frac{1}{4}, \frac{3}{8}$   
Q28 72  
Q29 25  
Q30 8

### PAPER 2



M → 1U  
→  $105 + 10 = 10.5$   
Mary is 10.5kg.  
Ans: 10.5kg

- Q2  $2u \rightarrow 140$   
 $1U \rightarrow 40:2 = 70$   
 $3U \rightarrow 70 \times 3 = 210$   
There are 210 blue beads.

Ans: 210 blue beads

Q3

Total  $\rightarrow 250$

$\frac{2}{5}$ Total  $\rightarrow \frac{2}{5} \times 250 = 100$

left  $\rightarrow 250 - 100 = 150$

He had 150 bottle caps left.

Ans: 150 bottle caps

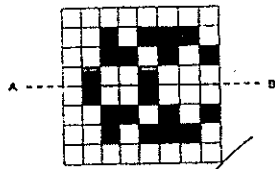
Q4

$1500g \div 100g = 15$

$15 \times \$1.55 = \$23.25$

Ans: \$23.25

Q5



Q6

$5u \rightarrow 400$

$1u \rightarrow 400 \div 5 = 80$

Total  $\rightarrow 9u$

$\rightarrow 80 \times 9 = 720$

There were 720 people at the carnival.

Ans: 720 people

Q7

1 child  $\rightarrow 3 + 2 = 5$

no of children  $\rightarrow 300 \div 5 = 60$

no of files  $\rightarrow 60 \times 3 = 180$

There are 180 files.

Ans: 180 files

Q8

Amy  $\rightarrow 4u$

Charles  $\rightarrow 1u$

$A + B = 615$

$C + B = 318$

$3u \rightarrow 615 - 318 = 297$

$1u \rightarrow 297 \div 3 = 99$

Charles had 99 stickers.

Ans: 99

Q9

At first

In the end

C:A

C:A

3:1

1:7

Total  $\rightarrow 4u$

Total  $\rightarrow 8u$

$\downarrow$

$\downarrow$

C:A

C:A

6:2

1:7

Total  $\rightarrow 8u$

Total  $\rightarrow 8u$

$6u - 1u = 5u$



- Q15 1A → \$0.50  
1M → \$2

Guess and check (check)

Mangoes	Apples	Total	✓/X
7 × \$2 = \$14	18 × \$0.50 = \$9	\$14 + \$9 = \$23	X
15 × \$2 = \$30	20 × \$0.50 = \$10	\$30 + \$10 = \$40	X
1 × \$2 = \$2	24 × \$0.50 = \$12	\$2 + \$12 = \$14	X
1 × \$2 = \$2	60 × \$0.50 = \$30	\$2 + \$30 = \$32	X
7 × \$2 = \$14	28 × \$0.50 = \$14	\$14 + \$14 = \$28	X
5 × \$2 = \$10	20 × \$0.50 = \$10	\$10 + \$10 = \$20	✓

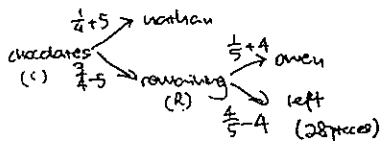
no of apples → 30  
She bought 30 apples.

Ans: 30 apples

- Q16 1 boy → 3 sweets  
1 girl → 4 sweets  
no of children in 1 group  
B:G  
1:2

1 group → 1 boys + 2 girls  
→ 3 sweets + 8 sweets = 11 sweets  
no of groups → 748 sweets ÷ 11 sweets = 68 groups  
Total children → 68 groups × (1 + 2) = 204 children  
There were 204 children.  
Ans: 204 children

Q17



left →  $4/5R - 4 = 28$   
 $4/5R → 28 + 4 = 32$   
 $1/5R → 32 ÷ 4 = 8$   
 $5/5R → 8 × 5 = 40$   
 $40 → 3/4C - 5$   
 $3/4C → 40 + 5 = 45$   
 $1/4C → 45 ÷ 3 = 15$   
 $4/4C → 15 × 4 = 60$   
 There were 60 pieces of chocolate.  
 Ans: 60 pieces

- Q18 7c → \$20  
5T → \$30  
1T → \$30 ÷ 5 = \$6

$5u \rightarrow \$450$   
 $1u \rightarrow \$450 \div 5 = \$90$   
 C at first  $\rightarrow 6u$   
 $\rightarrow \$90 \times 6 = \$540$

Catherine had \$540 at first.

Ans: \$540

Q10

A	1u	20	-80	}	540 + 20 = 80
B	1u	20			

$540 + 20 = 560$   
 $2u \rightarrow 560 - 120 = 440$   
 $1u \rightarrow 440 \div 2 = 220$

A at first  $\rightarrow 220 + 100 = 320$   
 Alan had 320 cards at first.

Ans: 320 cards

Q11

Salary  $\rightarrow \$500$  (transport)  
 $\searrow$  remaining  $\rightarrow \frac{4}{7}$  (food) }  $\frac{2}{3}s$   
 $\searrow \frac{3}{7}$  (left) }  $\frac{1}{3}s$

$3u \rightarrow \frac{1}{3}s$   
 $6u \rightarrow \frac{2}{3}s$   
 $6u - 4u = 2u$   
 $2u \rightarrow \$500$  (transport)  
 $1u \rightarrow \$500 \div 2 = \$250$   
 Total  $s \rightarrow 9u \rightarrow \$250 \times 9 = \$2250$   
 Her total salary is \$2250.  
 Ans: \$2250

Q12

1st bike  $\xrightarrow{\$6}$   $\xrightarrow{\$2}$   $\xrightarrow{\$2}$   $\xrightarrow{\$2}$   $\xrightarrow{\$2}$   $\xrightarrow{\$2}$  }  $\$16$   
 $\xrightarrow{1hr}$   $\xrightarrow{1/2hr}$   $\xrightarrow{1/2hr}$   $\xrightarrow{1/2hr}$   $\xrightarrow{1/2hr}$   $\xrightarrow{1/2hr}$  }  $3\frac{1}{2}hrs$   
 2nd bike  $\xrightarrow{\$8}$  }  $\$8$   
 $\xrightarrow{1hr}$   $\xrightarrow{1/2hr}$   $\xrightarrow{1/2hr}$   $\xrightarrow{1/2hr}$   $\xrightarrow{1/2hr}$  }  $3\frac{1}{2}hrs$

Larry rented the bicycles for  $3\frac{1}{2}$  hours.

Ans:  $3\frac{1}{2}$  hours

Q13

$8u \rightarrow 2780 - (155 \times 4) = 2160$   
 $1u \rightarrow 2160 \div 8 = 270$   
 $M \rightarrow 270 + 155 = 425$   
 Melvin has 425 stamps.

Ans: 425 stamps

Q14

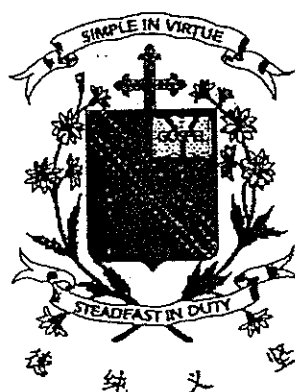
P of B  $\rightarrow 64cm$   
 L of B  $\rightarrow 64 \div 4 = 16cm$   
 L of F  $\rightarrow 16 \div 2 = 8cm$   
 A of F  $\rightarrow 8 \times 8 = 64cm^2$   
 L of A  $\rightarrow 16cm \times 2 = 32cm$   
 A of A  $\rightarrow 32cm \times 32cm = 1024cm^2$   
 A of F/A of A  $\rightarrow 64/1024 \rightarrow 1/16$   
 The fraction is  $1/16$   
 Ans:  $1/16$

no of cupcakes	no of tarts	Diff	x/✓
7→\$20	7→\$42	\$22	x
70→\$200	70→\$420	\$220	x
147→\$420	147→\$882	\$462	x
175→\$500	175→\$1050	\$550	✓

\$500+\$1050=\$1550



CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)



Primary 5

2014 Semestral Assessment One

Mathematics

Paper 1

Booklet A

12 May 2014

Total Time for Booklets A and B : 50 min

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 6 printed pages including the cover page.*

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 numbers when rounded off to the nearest thousand is 704 000?

1) 703 197

2) 703 463

3) 704 095

4) 704 501

2. What is the value of  $160 \div 2 + 6 - 3 \times 10$  ?

1) 44

2) 56

3) 320

4) 830

3. Bel and Mel shared a sum of money in the ratio of 1 : 6. Mel received \$84. How much did Bel receive?

1) \$12

2) \$14

3) \$72

4) \$504

4. 6 walnut brownies were distributed equally among 4 children. What fraction of the walnut brownies did each child receive?

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

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

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

4)  $1\frac{2}{3}$

5. The figure below is made up of identical rectangles. What is the ratio of the unshaded parts to the shaded parts?



1) 3 : 4

2) 3 : 7

3) 4 : 3

4) 4 : 7

6. Which one of the following does not have the same value as  $\frac{3}{5}$ ?

1)  $\frac{1}{10} + \frac{1}{2}$

2)  $1 - \frac{6}{15}$

3)  $\frac{1}{10} \times 6$

4)  $\frac{1}{5} \div 3$

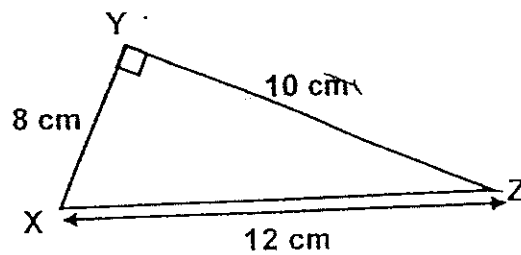
7. What must be subtracted from 10 000 to get 909?

- 1) 101
- 2) 9 091
- 3) 10 101
- 4) 10 909

8. What is the value of  $\frac{5}{6} \div 10$  ?

- 1)  $\frac{1}{12}$
- 2)  $\frac{3}{25}$
- 3)  $\frac{1}{3}$
- 4)  $8\frac{1}{3}$

9. What is the area of triangle XYZ?



- 1) 40 cm<sup>2</sup>
- 2) 48 cm<sup>2</sup>
- 3) 60 cm<sup>2</sup>
- 4) 80 cm<sup>2</sup>



10. What is the missing number in the box?

$$\boxed{?} \div 50 = 300$$

$$\begin{array}{r} 300 \\ \times 50 \\ \hline 15000 \end{array}$$

- 1) 6  
2) 60  
3) 1 500  
4) 15 000
11. The ratio of the number of cars to the number of vans in a carpark was 7 : 1. There were 252 fewer vans than cars. How many vehicles were there at the carpark?

- 1) 252  
2) 288  
3) 294  
4) 336

12. What is the missing number in the box?

$$\frac{1}{3} + \frac{1}{6} + \frac{1}{3} + \frac{1}{3} + \frac{1}{6} + \frac{4}{12} = \boxed{?} \times \frac{1}{3}$$

- 1) 3  
2) 5  
3) 6  
4) 8

4

13. Mabel paid \$5 for posting a parcel. Which is the maximum possible mass for the parcel?

	Postage
First 40 g	\$1.00
Additional 10 g or part thereof	\$0.40

- 1) 130 g  
2) 135 g  
3) 140 g  
4) 150 g
14. Farmer Xavier had 2 kg of dried food. He fed  $1\frac{5}{6}$  kg of it to the rabbits and  $\frac{1}{4}$  of the remainder to the hamsters. How many kilograms of dried food did he have left?
- 1)  $\frac{1}{8}$  kg  
2)  $\frac{7}{8}$  kg  
3)  $\frac{1}{24}$  kg  
4)  $\frac{7}{24}$  kg
15.  $\frac{7}{8}$  of a number is 112. What is  $\frac{1}{2}$  of the number?

- 1) 32  
2) 49  
3) 56  
4) 64

CHIJ ST NICHOLAS GIRLS' SCHOOL(PRIMARY)



Primary 5

2014 Semestral Assessment One

Mathematics

Paper 1

Booklet B

12 May 2014

Booklet A	20
Booklet B	20
Total (Paper 1)	40

Total Time for Booklets A and B : 50 min

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 9 printed pages including the cover page.

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. Express  $\frac{5}{9}$  as a decimal, correct to 2 decimal places.

Ans : \_\_\_\_\_

17. What is the missing value in the box?

$$31\,500 \div 700 = \boxed{?}$$

Ans : \_\_\_\_\_

18. What is the missing number in the box?

$$\frac{\boxed{?}}{18} = 1\frac{4}{9}$$

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Ans : \_\_\_\_\_

19. Find the value of  $\frac{3}{8} \div 9$ . Express the answer in its simplest form.

Ans : \_\_\_\_\_



20. What is the value of  $782 \times 60$ ?

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Ans : \_\_\_\_\_

21. What is the missing number in the box?

$$876.375 = 876 + \frac{\boxed{?}}{8}$$

Ans : \_\_\_\_\_



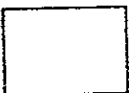
22.  $\frac{1}{2}$  of Choo Beng's mass is the same as  $\frac{2}{3}$  of Deon's mass. Find the ratio of Choo Beng's mass to Deon's mass.

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Ans : \_\_\_\_\_

23. April bought 7 l of milk. She poured it into 12 bottles equally. What was the volume of milk in 5 such bottles?

Ans : \_\_\_\_\_ l



24. There are 50 people in the hall. 6 of them are adults and the rest are children. What is the ratio of the number of children to the total number of people?

Do not  
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Ans : \_\_\_\_\_

25. What is the missing value?

$$10 : \boxed{?} = 14 : 21$$

Ans : \_\_\_\_\_





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)

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26. There were 55 pupils at a camp. They lined up in a straight row and were grouped into 4 groups as shown below :

Pupil	1	2	3	4	5	6	.....	55
Group	A	B	C	D	A	P	.....	?

Which group will the 55<sup>th</sup> pupil be in ?

Ans : \_\_\_\_\_

27. Mrs Lee bought 10 boxes of thumbtacks to pin some posters on the noticeboard. Each box contained 13 thumbtacks. She used 6 thumbtacks to pin up each poster and had 4 thumbtacks left. How many posters did she pin up?

Ans : \_\_\_\_\_



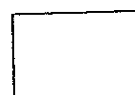
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28. Mr Macho is 32 years older than Millie. Millie is 13 years. In how many years' time will Mr Macho be twice as old as Millie?

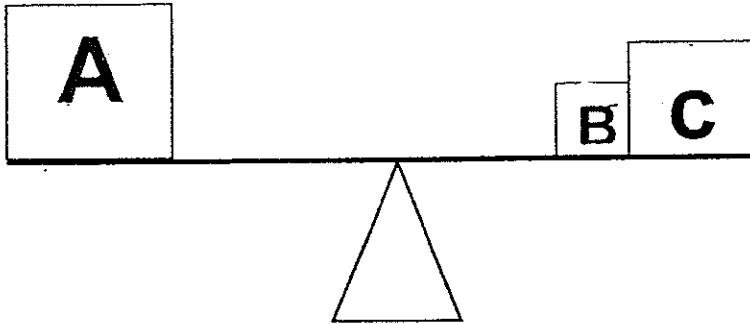
Ans : \_\_\_\_\_

29. Jovial mixed some water and orange syrup to make orange juice. She used  $\frac{1}{2}$  l of water. This was  $\frac{5}{12}$  l more than the orange syrup used. How many litres of orange juice did she make?

Ans : \_\_\_\_\_ l



30. The figure below shows three boxes, A, B and C, on a balanced scale. The mass of Box B is 89 g. The ratio of the mass of Box B to the mass of Box C is 1 : 3. What is the mass of Box A?



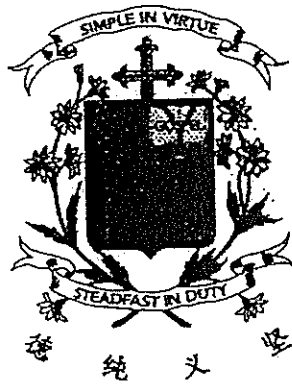
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Ans : \_\_\_\_\_ g



**\*\*END OF PAPER 1\*\***

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)



Primary 5

2014 Semestral Assessment One

Mathematics  
Paper 2

12 May 2014

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 16 printed pages including the cover page.*

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)

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1. Adeline receives an allowance of \$26.50 from her parents every week. She spends  $\frac{3}{5}$  of the allowance and saves the rest. If she saves the same amount every week, what is the least number of weeks she will take to save \$477?

Ans : \_\_\_\_\_

2. Mrs Francis needed to give 27 dancers  $8\frac{1}{5}$  cm of ribbon each to tie their hair for a performance. However, she was short of  $16\frac{1}{2}$  cm of ribbon. What was the length of the ribbon Mrs Francis had? Leave your answer in decimal.

Ans : \_\_\_\_\_ cm



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3. Mrs Sofia bought a piece of cloth of length 3 m. She used  $\frac{3}{4}$  of the cloth and cut the remaining cloth into 30 pieces of the same length. What was the length of each of the 30 pieces? Leave your answer as a fraction.

Ans : \_\_\_\_\_ m

4. A printer can print 750 sets of newspapers in every 13 minutes. How long does it take to print 3000 sets of newspapers?

Ans : \_\_\_\_\_ min



5. Jessie bought  $\frac{1}{4}$  kg of cocoa powder. She used  $\frac{2}{3}$  of it to bake 3 loaves of bread. She used an equal amount of cocoa powder for each loaf of bread. How much cocoa powder was used to bake each loaf of bread?

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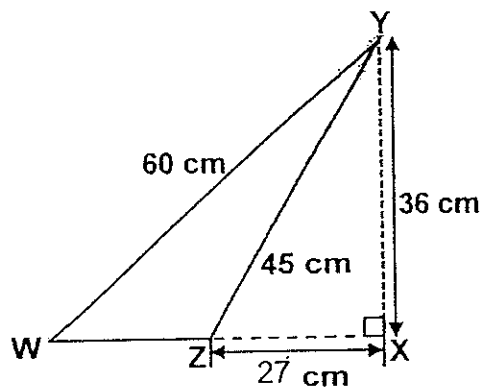
Ans : \_\_\_\_\_ kg



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 sum of all the sides of triangle WZY is 126 cm. What is the area of triangle WZY?



Ans : \_\_\_\_\_ [3m]





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7. Pamela answered 55 questions in a quiz and scored 85 points. For every correctly answered question, Pamela got 3 points. She lost 2 points for every wrong answer given. How many questions did she answer incorrectly in all?

Ans : \_\_\_\_\_ [3m]

8. Elsa was given  $\frac{1}{3}$  of a pizza. Anna was given  $\frac{2}{5}$  of the remaining pizza. The rest of the pizza was distributed equally among 4 children. What fraction of the pizza did each of the 4 children get?

Ans : \_\_\_\_\_ [3m]



9. Jancy, Belle and Olinda donated a total of \$2150 to a nursing home. Belle donated \$226 more than Jancy but \$861 less than Olinda. How much did Jancy donate?

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Ans : \_\_\_\_\_ [3m]



10. Eddie and Crong received the same amount of salary each week. Eddie saved  $\frac{2}{7}$  of his salary and Crong saved  $\frac{3}{5}$  of his. Crong saved \$143 more than Eddie. What was the amount of salary each of them received?

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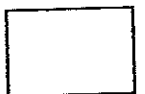
Ans : \_\_\_\_\_ [3m]



11. At a toy factory, 78 workers each had to make the same number of dolls every day. 13 of the workers were transferred to make toy guns and the rest of the workers had to make 15 more dolls. How many dolls did each worker have to make at first?

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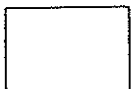
Ans : \_\_\_\_\_ [3m]



12. Kelly bought  $\frac{9}{10}$  kg of sugar. She used  $\frac{1}{5}$  of the sugar. She then used  $\frac{3}{8}$  of the remaining sugar to bake cookies. What was the mass of sugar that she had left?

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Ans : \_\_\_\_\_ [4m]



13. On Monday, Adam read 7 pages more than half of the number of pages of a storybook. On Tuesday, he read 9 pages fewer than half of the remaining pages in the storybook. In the end, Adam had 39 pages left to read. How many pages were there in the storybook?

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Ans : \_\_\_\_\_ [ 4m]



14. Lyna had some money. She spent \$292.80 on a printer and  $\frac{3}{10}$  of the remaining amount on a study desk. Finally, she was left with  $\frac{1}{2}$  of the amount of money she had at first. How much money did Lyna have left?

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Ans : \_\_\_\_\_ [5m]



15. Min Jung and Min Ho each received some bonus. Min Ho spent  $\frac{7}{12}$  of his bonus. Min Jung spent  $\frac{5}{9}$  of his bonus on a wallet. The wallet cost \$1250. Finally both of them had the same amount of bonus left. How much bonus did each of them receive at first?

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Ans : Min Jung - \_\_\_\_\_

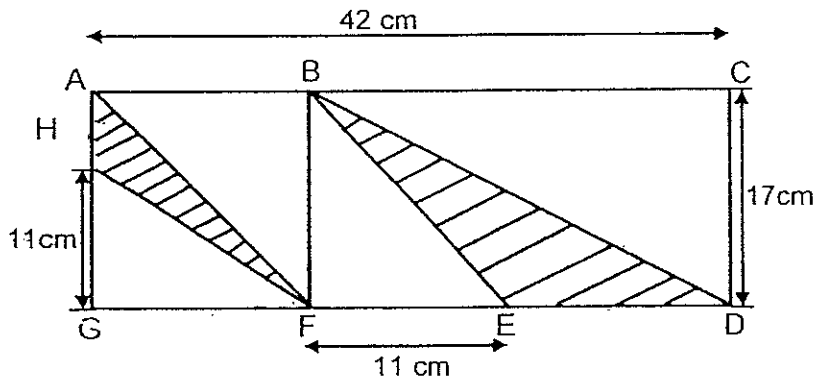
Min Ho - \_\_\_\_\_ [5m]





16. The figure below is made up of a square  $ABFG$  and a rectangle  $BCDF$ .  
What is the ratio of the area of triangle  $AFH$  to the area of triangle  $BDE$ ?

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write in this  
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Ans : \_\_\_\_\_ [5m]



17. Best Price Megastore sold some ovens and rice cookers for a total of \$13 582 during a sale. The cost of a rice cooker and an oven was \$586. The oven cost \$52 less than the rice cooker. There were 4 more rice cookers sold than the ovens. How many ovens were sold?

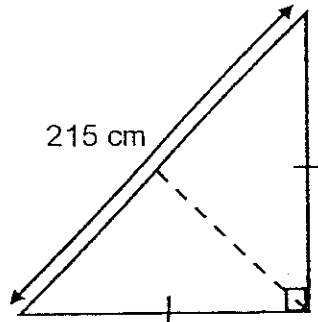
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Ans : \_\_\_\_\_ [5m]



18. The figure below shows a triangular play mat. Joy had 12 such pieces of triangular play mats. What was the total area of the 12 pieces of play mats?

Do not write in this space



Ans : \_\_\_\_\_ [4m]



**\*\* END OF PAPER \*\***



## Exam Paper 2014 Answer Sheet

School: CHIJ ST NICHOLAS GIRLS' SCHOOL

Subject: PRIMARY 5 MATHEMATICS

Term: SA1

### Paper 1

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

16. 0.56

17. 45

18. 26

19.  $\frac{1}{24}$

20. 46920

21. 3

22. 4 : 3

23.  $2\frac{11}{12}$

24. 22 : 25

25. 15

26. C

27. No. of thumbtacks  $\rightarrow 10 \times 13 = 130$

No. of posters  $\rightarrow (130 - 4) \div 6 = 21$

28.  $1u \rightarrow 32$

Millie then  $\rightarrow 32$

Years' time  $\rightarrow 32 - 13 = 19$

29.  $\frac{1}{2} = \frac{6}{12}$   
 $\frac{6}{12} - \frac{5}{12} = \frac{1}{12}$   
 $\frac{6}{12} + \frac{1}{12} = \frac{7}{12}$

30. B : C  $\rightarrow 1 : 3$

$1u \rightarrow 89$

C  $\rightarrow 89 \times 3 = 267$

A  $\rightarrow 267 + 89 = 356$

1. The first part of the document is a list of names and titles.

2. The second part of the document is a list of names and titles.

3. The third part of the document is a list of names and titles.

4. The fourth part of the document is a list of names and titles.

5. The fifth part of the document is a list of names and titles.

6. The sixth part of the document is a list of names and titles.

## Paper 2

- Save  $\rightarrow (\$26.50 \div 5) \times 2 = \$10.60$   
No. of weeks  $\rightarrow 477 \div 10.60 = 45$
- 27 dancers  $\rightarrow 8\frac{1}{5} \times 27 = 221\frac{2}{5}$   
Length of ribbon  $\rightarrow 221\frac{2}{5} - 16\frac{1}{2} = 204.9$
- Remaining  $\rightarrow 3 \div 4 = \frac{3}{4}$   
30 pcs  $\rightarrow \frac{3}{4}$   
1pc  $\rightarrow \frac{1}{40}$
- 750 sets  $\rightarrow 13\text{min}$   
No. of sets  $\rightarrow 3000 \div 750 = 4$   
0min  $\rightarrow 13\text{min} \rightarrow 26\text{min} \rightarrow 39\text{min} \rightarrow 52\text{min}$
- 3 bread  $\rightarrow (\frac{1}{4} \div 3) \times 2 = \frac{1}{6}\text{kg}$   
1 bread  $\rightarrow \frac{1}{18}\text{kg}$
- WZ  $\rightarrow 126 - 60 - 45 = 21$   
Area of WZY  $\rightarrow \frac{1}{2} \times 21 \times 36 = 378\text{cm}^2$

7.

No. of tick	Points	No. of cross	Points	Total	Check
40	$40 \times 3 = 120$	15	$15 \times 2 = 30$	90	cross
39	$39 \times 3 = 117$	<b>16</b>	$16 \times 2 = 32$	85	tick

- $\frac{3}{5} \times \frac{2}{3} = \frac{2}{5}$   
 $\frac{2}{5} \div 4 = \frac{1}{10}$
- 3u  $\rightarrow 2150 - 226 - 226 - 861 = 837$   
1u  $\rightarrow \$279$
- Saved: E  $\rightarrow \frac{2}{7} = \frac{10}{35}$   
C  $\rightarrow \frac{3}{5} = \frac{21}{35}$   
Diff  $\rightarrow \frac{21}{35} - \frac{10}{35} = \frac{11}{35}$   
11u  $\rightarrow \$143$   
1u  $\rightarrow \$13$   
Each salary  $\rightarrow \$13 \times 35 = \$455$
- No. of doll workers left  $\rightarrow 78 - 13 = 65$   
13 workers  $\rightarrow 15 \times 65 = 975$   
1 worker  $\rightarrow 75$
- $\frac{9}{10} \div 5 = \frac{9}{50}$   
 $\frac{9}{50} \times 4 = \frac{18}{25}$   
 $\frac{18}{25} \div 8 = \frac{9}{100}$   
 $\frac{9}{100} \times 5 = \frac{9}{20}\text{kg}$

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13.  $\frac{1}{2}$  of remainder  $\rightarrow 39 - 9 = 30$   
 $\frac{1}{2}$  of total  $\rightarrow (30 \times 2) + 7 = 67$   
 No. of pages  $\rightarrow 67 \times 2 = \mathbf{134}$

14. At first  $\rightarrow \frac{7}{10} \times 2 = \frac{14}{10}$   
 $\$292.80 \rightarrow \frac{7}{10} - \frac{3}{10} = \frac{4}{10}$   
 $4u \rightarrow \$292.80$   
 $1u \rightarrow \$73.20$   
 Lyna left  $\rightarrow \$73.20 \times 7 = \mathbf{\$512.40}$

15. Left: MH  $\rightarrow 1 - \frac{7}{12} = \frac{5}{12} = \frac{20}{48}$   
 MJ  $\rightarrow 1 - \frac{5}{9} = \frac{4}{9} = \frac{20}{45}$   
 $1 - \frac{20}{45} = \frac{25}{45}$   
 $\frac{25}{45} \rightarrow \$1250$   
 $\frac{1}{45} \rightarrow \$50$   
 MJ at first  $\rightarrow 50 \times 45 = \mathbf{\$2250}$   
 $\frac{20}{48} \rightarrow \$50 \times 20 = \$1000$   
 $\frac{1}{48} \rightarrow \$50$   
 MH  $\rightarrow \$50 \times 48 = \mathbf{\$2400}$

16. ED  $\rightarrow 42 - 11 - 17 = 14$   
 Area of AHF  $\rightarrow \frac{1}{2} \times 6 \times 17 = 51$   
 Area of BDE  $\rightarrow \frac{1}{2} \times 14 \times 17 = 119$   
 BDE : AHF  
 $51 : 119$   
 $\mathbf{3 : 7}$

17. Oven  $\rightarrow (586 - 52) \div 2 = \$267$   
 Rice cooker  $\rightarrow 267 + 52 = \$319$   
 4 rice cooker  $\rightarrow 319 \times 4 = \$1276$   
 No. of sets  $\rightarrow (13582 - 1276) \div 586 = 21$   
 No. of ovens sold  $\rightarrow \mathbf{21}$

18. Area of 4 play mats  $\rightarrow 215 \times 215 = 46225$   
 No. of grp  $\rightarrow 12 \div 4 = 3$   
 Areas of 12 play mats  $\rightarrow 3 \times 46225 = \mathbf{138675\text{cm}^2}$



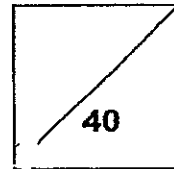


**HENRY PARK PRIMARY SCHOOL  
2014 SEMESTRAL EXAMINATION 1  
MATHEMATICS  
PRIMARY 5**

**PAPER 1**

Name: \_\_\_\_\_ ( )

Class: Primary 5 \_\_\_\_\_



**30 Questions  
40 Marks**

**Total Time for Booklet A and B: 50 min**

**DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.**

**READ AND FOLLOW INSTRUCTIONS CAREFULLY.**

**YOU ARE NOT ALLOWED TO USE A CALCULATOR.**

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 9 317 548, what does the digit 3 stand for?

- (1) 3000
- (2) 30 000
- (3) 300 000
- (4) 3 000 000

( )

2.  $887\,305 = 800\,000 + \boxed{\phantom{00000}} + 300 + 5$   
What is the missing number in the box above?

- (1) 87
- (2) 8700
- (3) 80 700
- (4) 87 000

( )

3. Find the value of  $45 - (6 + 21) \div 3 \times 2$ .

- (1) 12
- (2) 27
- (3) 3
- (4) 40

( )

4. Fitri made a bracelet using 8 blue beads and 14 yellow beads. What fraction of the beads on the bracelet were yellow?

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

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

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

(4)  $\frac{7}{11}$

( )

5. Find the value of  $1\frac{5}{12} + 1\frac{3}{4}$ .

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

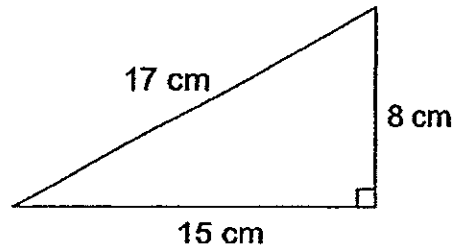
(2)  $2\frac{2}{3}$

(3)  $3\frac{1}{6}$

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

( )

6. Find the area of triangle shown below.



- (1)  $40 \text{ cm}^2$   
(2)  $60 \text{ cm}^2$   
(3)  $68 \text{ cm}^2$   
(4)  $120 \text{ cm}^2$

( )

7. There are 24 girls and 16 boys in a class. What is the ratio of the number of girls to the total number of pupils in the class?

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

( )

8. Grace has 6 times as many stamps as Joyce and twice as many stamps as Ellen. What is the ratio of the number of stamps Joyce has to the total number of stamps the three girls have?

- (1) 1 : 10  
(2) 1 : 9  
(3) 1 : 8  
(4) 1 : 6

( )

9. A fish tank has a capacity of 13 litres. It contains  $8\frac{3}{4}$  litres of water. How much water is needed to fill the fish tank to the brim?

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

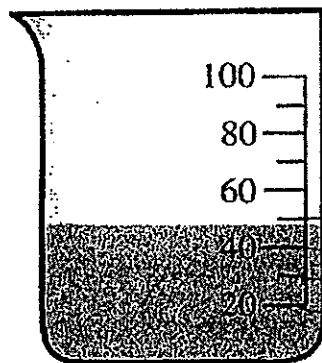
(2)  $4\frac{3}{4}$  l

(3)  $5\frac{1}{4}$  l

(4)  $5\frac{3}{4}$  l

( )

10. What could be the volume of water in the beaker shown below?



(1) 44 ml

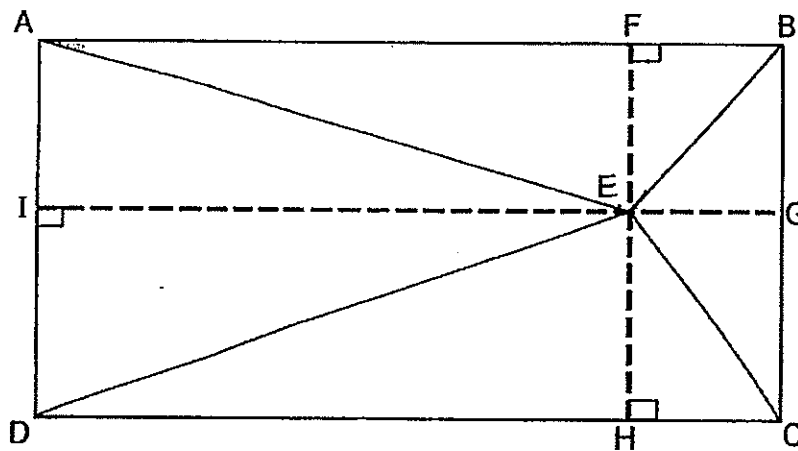
(2) 45 ml

(3) 48 ml

(4) 52 ml

( )

11. ABCD is a rectangle. What is the height of triangle ABE, given that its base is AB?



- (1) BC
- (2) BG
- (3) EB
- (4) EG

( )

12. The ratio of the length of a rectangle to its breadth is 7 : 3. The breadth of the rectangle is 12 cm. What is its length?

- (1) 28 cm
- (2) 40 cm
- (3) 36 cm
- (4) 84 cm

( )



13. A machine can print 90 pages in 3 minutes. How many such pages can the machine print in 15 minutes?

- (1) 18
- (2) 270
- (3) 450
- (4) 1350

( )

14. There are 20 swimmers in class 5E.  $\frac{3}{5}$  of the swimmers are boys. How many girls are there in class 5E given that  $\frac{1}{3}$  of the girls in class 5E are swimmers?

- (1) 8
- (2) 12
- (3) 24
- (4) 36

( )

15. A rectangular tank 25 cm long, 10 cm wide and 42 cm high is half filled with water. What is the volume of the water in the tank?

- (1) 525 cm<sup>3</sup>
- (2) 1050 cm<sup>3</sup>
- (3) 5250 cm<sup>3</sup>
- (4) 10 500 cm<sup>3</sup>

( )

NAME: \_\_\_\_\_

CLASS: P5 \_\_\_\_\_

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. Write eight million, two hundred and forty thousand and sixty-seven in figures.

Ans: \_\_\_\_\_

17. Find the value of  $24 \times 12\,000$ .

Ans: \_\_\_\_\_

18. Which one of the following numbers is exactly divisible by 20?

1090

1250

2170

2500

Ans: \_\_\_\_\_



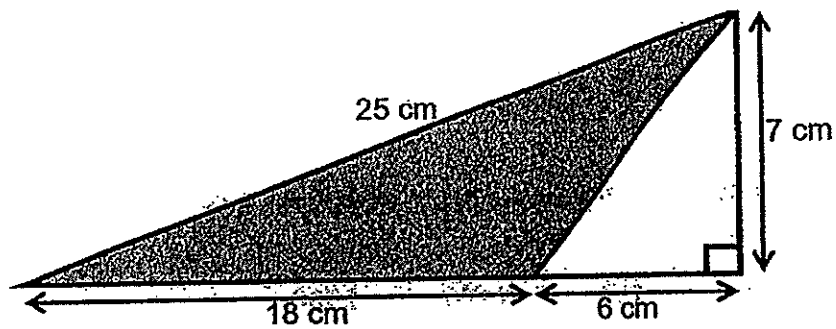
19. Find the value of  $\frac{5}{9} \times \frac{2}{15}$ . Express your answer in its simplest form.

Ans: \_\_\_\_\_

20. Express 12 minutes as a fraction of 2 hours in its simplest form.

Ans: \_\_\_\_\_

21. Find the area of the shaded triangle in the figure below.



Ans: \_\_\_\_\_ cm<sup>2</sup>



22. 3 boys share some stamps in the ratio of 5 : 3 : 2. Given that the smallest share is 126, find the largest share.

Ans: \_\_\_\_\_

23.  $18 : 39 = \boxed{\phantom{000}} : 13$

What is the missing number in the box?

Ans: \_\_\_\_\_

24. Find the capacity of a rectangular tank measuring 30 cm by 25 cm by 10 cm.

Ans: \_\_\_\_\_  $\text{cm}^3$

25.  $4 \text{ l } 75 \text{ ml} = \boxed{\phantom{000}} \text{ ml.}$

What is the missing number in the box?

Ans: \_\_\_\_\_



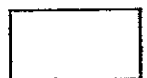
Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. ( 10 marks )

26. A number, multiplied by itself and then divided by 3, gives an answer of 27. Find the number.

Ans: \_\_\_\_\_

27. There are a total of 88 apples and oranges at a fruit stall. The ratio of apples to oranges is 4 : 7. How many more <sup>oranges</sup> apples than oranges are there at the fruit stall?

Ans: \_\_\_\_\_

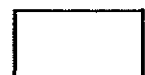


28. The length of a cube is 4 cm. What is the volume of 15 such cubes?

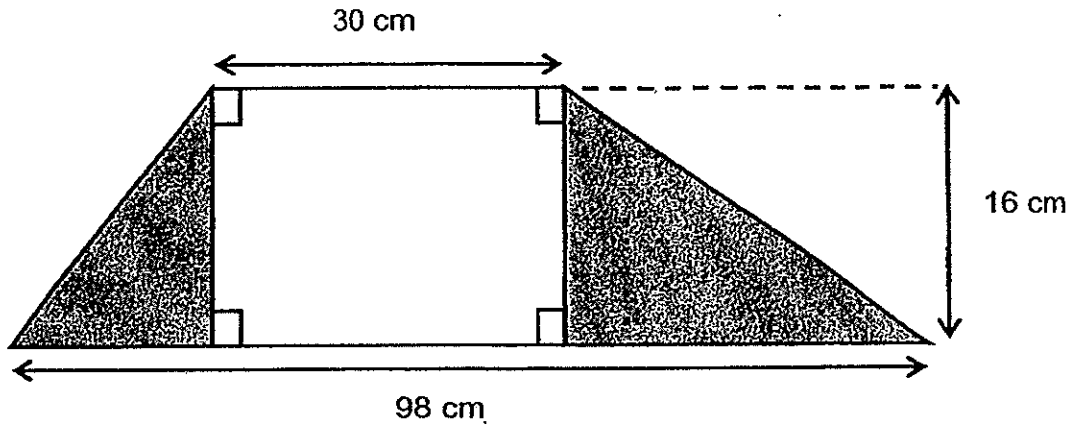
Ans: \_\_\_\_\_ cm<sup>3</sup>

29. A group of pupils were at a school carnival.  $\frac{3}{8}$  of them were boys. Given that 15 girls were at the carnival, how many boys were there at the school carnival?

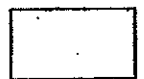
Ans: \_\_\_\_\_



30. In the figure below, find the total area of the shaded region.



Ans: \_\_\_\_\_  $\text{cm}^2$



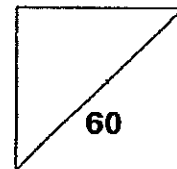


**HENRY PARK PRIMARY SCHOOL  
2014 SEMESTRAL EXAMINATION 1  
MATHEMATICS  
PRIMARY 5**

**PAPER 2**

Name: \_\_\_\_\_ ( )

Class: Primary 5 \_\_\_\_\_



**18 Questions  
60 Marks**

**Total Time for Paper 2: 1 h 40 min**

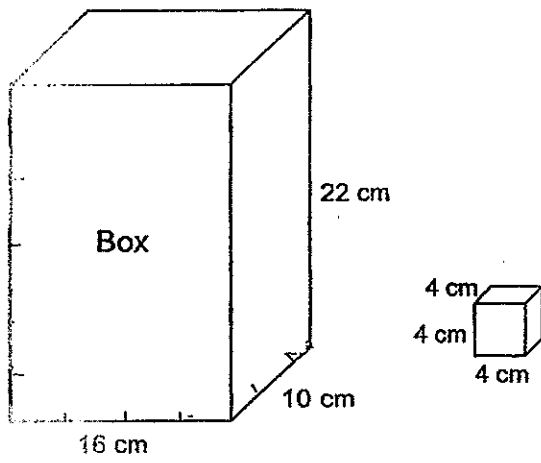
**DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.**

**READ AND FOLLOW INSTRUCTIONS CAREFULLY.**

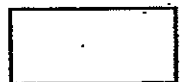
**YOU ARE ALLOWED TO USE A CALCULATOR.**



3. Some 4-cm cubes are put into the box below. What is the maximum number of cubes that can be put into the box?



Ans: \_\_\_\_\_



4.  $\frac{5}{6}$  of Samantha's savings is the same as  $\frac{2}{5}$  of John's savings.

What fraction of their total savings is John's savings?

Ans: \_\_\_\_\_

5. Jeremy is 40 kg. Kelvin is 24 kg heavier than Jeremy.  
Larry is half as heavy as Kelvin.

What is the ratio of Larry's mass to Jeremy's mass?

(Give your answer in the simplest form)

Ans: \_\_\_\_\_



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. Mr and Mrs Quek bought an apartment for \$443 000. They paid a down payment of \$83 000 and paid the remaining amount in monthly instalments over a period of 30 years. How much was <sup>each</sup> the monthly instalment?

Ans: \_\_\_\_\_ [3]



7. A sum of \$55 000 was given to a school to purchase laptops. A total of 36 laptops were purchased at \$1288 each. What was the maximum number of additional laptops the school could purchase with the remaining amount of money?

Ans: \_\_\_\_\_ [3]



8. Mrs Tan had a crate of fruits.  $\frac{3}{5}$  of the fruits in the crate were apples.  $\frac{1}{4}$  of the remainder fruits in the crate were oranges and the rest were pears. There were 54 more pears than oranges. What was the total number of fruits in the crate?

Ans: \_\_\_\_\_ [4]



9. Andy had \$60 more than Betty at first.

Andy spent  $\frac{2}{5}$  of his money and Betty spent  $\frac{1}{2}$  of her money at the bookshop.

After that, Andy had three times as much money as Betty.

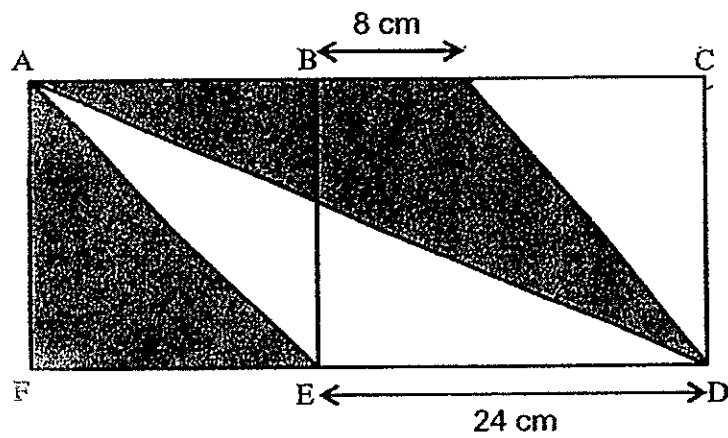
How much money did Andy have at first?

Ans: \_\_\_\_\_ [4]

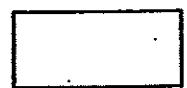
10. The figure below is made up of a square ABEF and a rectangle BCDE.

The length of the square is  $\frac{3}{4}$  the length of the rectangle.

Find the total area of the shaded regions.



Ans: \_\_\_\_\_ [3]



11. Justin, Max and Emily shared a packet of sweets in the ratio 3 : 2 : 9.  
Emily had 48 more sweets than Justin and Max.  
How many sweets were there in the packet altogether?

Ans: \_\_\_\_\_ [3]

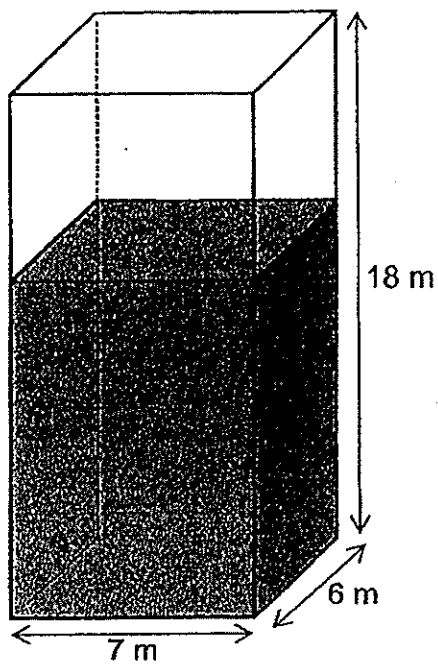




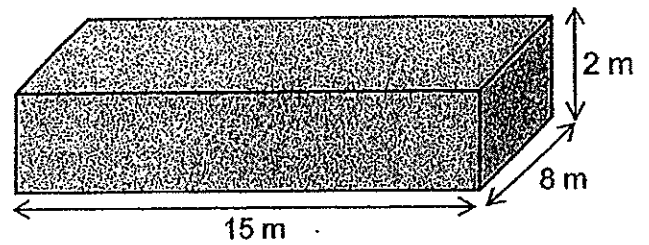
12. The figure below shows two rectangular tanks, Tank A and Tank B.

Tank A is  $\frac{2}{3}$  filled with water while Tank B is fully filled with water.

How much more water is there in Tank A than Tank B?



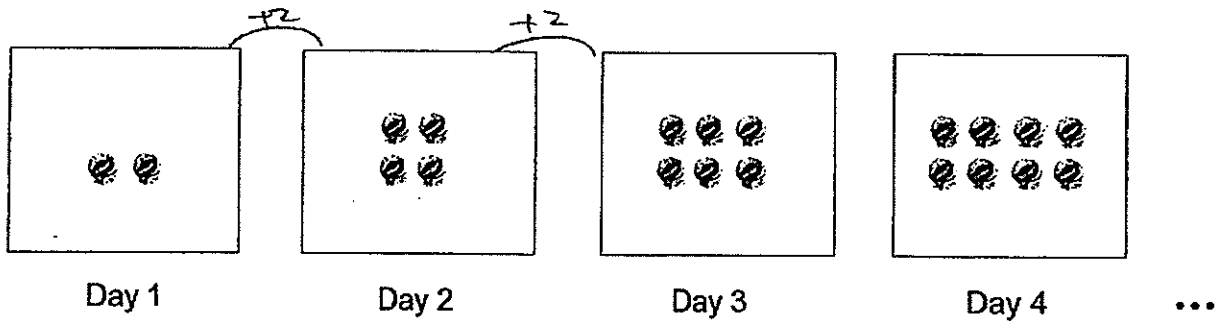
Tank A



Tank B

Ans: \_\_\_\_\_ [3]

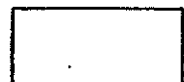
13. The figure below shows the number of marbles Joseph bought from a shop each day. For each subsequent day, Joseph bought two more marbles than the previous day.



- a) How many marbles will Joseph buy on Day 30?  
b) At the end of Day 48, how many marbles would Joseph have bought in all?

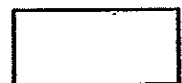
Ans: (a) \_\_\_\_\_ [1]

(b) \_\_\_\_\_ [4]



14. In a cinema, each row had the same number of seats. Jack sat on one of the seats in the cinema. There were 5 seats on his left and 14 seats on his right. There were 9 rows in front of him and 15 rows behind him. How many seats were there in the cinema altogether?

Ans: \_\_\_\_\_ [4]

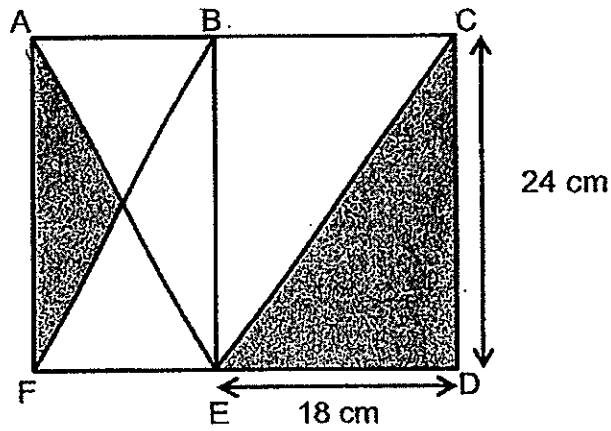


15. At a theme park,  $\frac{2}{3}$  of the visitors were children and the rest were adults.  $\frac{1}{4}$  of the adults were men and  $\frac{3}{8}$  of the children were girls. Given that there were 320 more women than men, how many boys were there at the theme park?

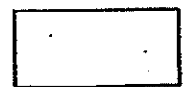
Ans: \_\_\_\_\_ [5]



16. In the figure below, rectangle ACDF is made up of two rectangles ABEF and BCDE. The area of the rectangle ACDF is  $672 \text{ cm}^2$ . Find the total area of the shaded regions.

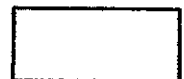


Ans: \_\_\_\_\_ [4]



17. Sharon and Alex had a number of erasers in the ratio of 3 : 1. Sharon and Roy had a number of erasers in the ratio of 4 : 5. Sharon, Alex and Roy had a total of 155 erasers altogether. How many more erasers did Roy have than Alex?

Ans: \_\_\_\_\_ [4]



18. A shopping mall awards its shoppers 50 points for every \$30 spent at the mall. An additional bonus of 60 points is also awarded for every \$120 spent. Mrs Chua spent \$1410 at the mall. How many points would she earn?

Ans: \_\_\_\_\_ [5]

**-END OF PAPER-**

**Setters: Ms Chin Lian Mei, Mrs Elaine Chua, Mr Jenfry Tseng & Mr Yip Yew Fei**







**Henry Park Primary School  
2014 Semestral Examination 1  
Mathematics  
Primary 5**

- 1) 3
- 2) 4
- 3) 2
- 4) 4
- 5) 3
- 6) 2
- 7) 2
- 8) 1
- 9) 1
- 10) 3
- 11) 2
- 12) 1
- 13) 3
- 14) 3
- 15) 3
- 16) 8 240 067
- 17) 288 000
- 18) 2500
- 19)  $\frac{1}{12}$
- 20)  $\frac{1}{10}$
- 21)  $63 \text{ cm}^2$
- 22) 315 stamps
- 23) 6
- 24)  $7500 \text{ cm}^3$
- 25) 4075
- 26)  $27 \times 3 = 81$   
 $81 = 9 \times 9$   
The number is 9.
- 27) 24 more oranges
- 28)  $960 \text{ cm}^3$
- 29) 9 boys
- 30)  $98 - 30 = 68$   
 $\frac{1}{2} \times 68 \times 16 = 544 \text{ cm}^2$

**Paper 2**

- 1)  $3315 + 3369 = 6684$   
 $6684 + 3315 = 9999$   
Ans: 10 000
- 2)  $\frac{2}{3} \div \frac{7}{7} = 17 \text{ litres}$
- 3)  $22 \div 4 = 5 \text{ R } 2$   
 $10 \div 4 = 2 \text{ R } 2$   
 $16 \div 4 = 4$   
 $5 \times 2 \times 4 = 40 \text{ cubes}$

4) Since 5 units of Samantha is equal to 2 units of John, find the common multiple of 5 & 2, ie. 10

So, Samantha  $\rightarrow$  10/12

John  $\rightarrow$  10/25

Hence, the answer is 25/37.

5) Kelvin  $\rightarrow$  24 kg + 40 kg = 64 kg

Larry  $\rightarrow$  64/2 = 32 kg

Therefore, 32 : 40 = 4 : 5

6) \$443 000 - \$83 000 = \$360 000

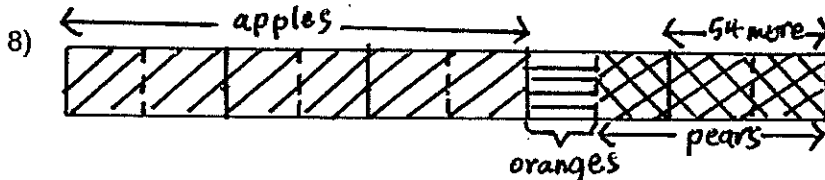
\$360 000 / (30 \* 12) = \$1000

7) \$1288 \* 36 = \$46 368

\$55 000 - \$46 368 = \$8632

\$8632 / \$1288 = 6 R 904

The school could purchase 6 additional laptops.



2u  $\rightarrow$  54

10u  $\rightarrow$  10/2 \* 54 = 270 fruits in the crate.

9) Before : After

A 5 : 3

B 2 : 1

3 units  $\rightarrow$  \$60

5 units  $\rightarrow$  5/3 \* 60 = \$100

10) Length of square = 3/4 \* 24 = 18 cm

Area of triangles = 1/2 \* 18 \* 18 + 1/2 \* 26 \* 18 = 396 cm<sup>2</sup>

11) 3units + 2units + 9units = 14units

9units - 3units - 2units = 4units

4 units  $\rightarrow$  48

14 units  $\rightarrow$  14/4 \* 48 = 168 sweets

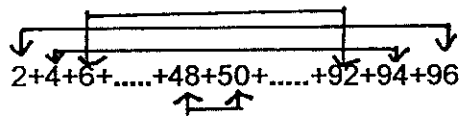
12) Volume of water in Tank A = 2/3 \* 7 \* 6 \* 18 = 504 cubic m

Volume of water in Tank B = 15 \* 8 \* 2 = 240 cubic m

504 - 240 = 264 m<sup>3</sup>

13a)  $30 \times 2 = 60$

b)  $48 \times 2 = 96$

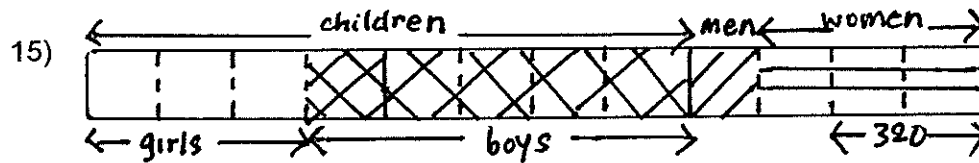


$24 \times 98 = 2352$

14)  $5 + 14 + 1 = 20$  (number of columns)

$9 + 15 + 1 = 25$  (number of rows)

$20 \times 25 = 500$  seats



2 units  $\rightarrow$  320

5 units  $\rightarrow$   $5/2 \times 320 = 800$  boys

16)  $672 - 24 \times 18 = 240 \text{ cm}^2$

$240/24 = 10 \text{ cm (FE)}$

$1/2 \times 24 \times 5 = 60 \text{ cm}^2$

$1/2 \times 18 \times 24 = 216 \text{ cm}^2$

$60 + 216 = 276 \text{ cm}^2$

17)  $12 \text{ units} + 4 \text{ units} + 15 \text{ units} = 31 \text{ units}$

$15 \text{ units} - 4 \text{ units} = 11 \text{ units}$

$31 \text{ units} \rightarrow 155$

$11 \text{ units} \rightarrow 11/31 \times 155 = 55$  more erasers

18) For every \$120 spent,

$120/30 \times 50 = 200$  points

$200 + 60 = 260$  points

For \$1410,

$1410/120 = 11 \text{ R } 90$

$90/30 \times 50 = 150$

$11 \times 260 + 150 = 3010$  points



# METHODIST GIRLS' SCHOOL

Founded in 1887



## PRIMARY 5 SEMESTRAL ASSESSMENT 1 2014 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 5. \_\_\_\_\_

Date: 15 May 2014.

This booklet consists of 5 printed pages including this page.



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 value of  $12 + 3 \times (31 - 25) \div 2$ .

- (1) 15
- (2) 21
- (3) 40
- (4) 45

2 Round off 957 906 to the nearest thousand.

- (1) 957 910
- (2) 957 900
- (3) 958 000
- (4) 960 000

3 What's the missing number in the box?

$$\frac{12}{15} = \frac{\square}{25}$$

- (1) 22
- (2) 20
- (3) 5
- (4) 4

4 Chris, Daniel and Ernest bought a present for their mother.

Chris paid  $\frac{1}{2}$  of the cost, Daniel paid  $\frac{1}{5}$  of the cost and Ernest paid the rest.

What fraction of the present did Ernest pay?

- (1)  $\frac{1}{3}$
- (2)  $\frac{2}{7}$
- (3)  $\frac{3}{10}$
- (4)  $\frac{7}{10}$

5 Which one of the following fractions is the largest?

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

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

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

(4)  $\frac{7}{8}$

6 Which one of the following fractions is greater than  $\frac{2}{5}$ ?

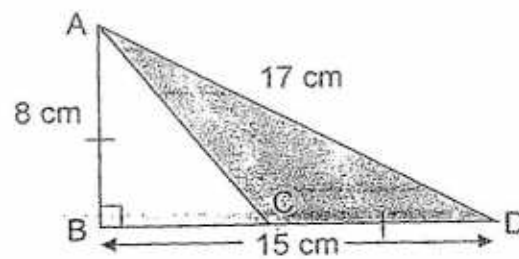
(1)  $\frac{1}{3}$

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

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

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

7 In the figure below,  $AB = CD$ . Find the area of the shaded triangle.



- (1)  $28 \text{ cm}^2$   
(2)  $32 \text{ cm}^2$   
(3)  $60 \text{ cm}^2$   
(4)  $68 \text{ cm}^2$



8 If  $X:Y=2:7$  and  $Z:X=4:3$ , what is  $X+Z:Y$ ?

- (1) 2:3
- (2) 2:7
- (3) 3:2
- (4) 3:4

9 Ben is 165 cm tall. David is 15 cm shorter than Ben. Carl is 10 cm taller than David. What is the ratio of Carl's height to David's height to Ben's height?

- (1) 33 : 32 : 30
- (2) 32 : 30 : 33
- (3) 35 : 30 : 33
- (4) 28 : 33 : 30

10 Fatimah made 1 800 ml of fruit punch using apple juice, orange juice and soda water in the ratio 3 : 2 : 4 respectively. How much soda water did she use?

- (1) 200 ml
- (2) 400 ml
- (3) 600 ml
- (4) 800 ml

11 There were 400 people at a concert. There were three times as many women as men. During the interval,  $\frac{1}{3}$  of the women and  $\frac{1}{2}$  of the men left the hall. How many more women than men were there after the interval?

- (1) 50
- (2) 100
- (3) 150
- (4) 200

- 12 Jennifer ate  $\frac{1}{4}$  of a pie and shared the remainder equally among her 5 friends. What fraction of the cake did each friend receive?

- (1)  $\frac{1}{20}$   
(2)  $\frac{3}{20}$   
(3)  $\frac{17}{20}$   
(4)  $\frac{3}{4}$

- 13 The ratio of the number of T-shirts that Raj bought to the number of T-shirts that Ali bought was 3 : 4. Raj bought 9 T-shirts. If each T-shirt cost \$10, how much did Ali pay for the T-shirts that he bought?

- (1) \$30  
(2) \$40  
(3) \$90  
(4) \$120

14  $13 \times 4 + 13 \times 8 - 2 \times 12 = \square \times 4 + 12$

What is the missing number in the box?

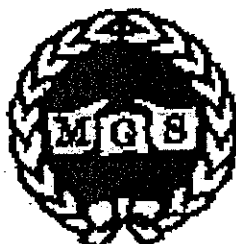
- (1) 30  
(2) 33  
(3) 120  
(4) 132

- 15 The ratio of the sides of a right-angled triangle is 3 : 4 : 5. The perimeter of the triangle is 36 cm. What is the area of the triangle?

- (1)  $54 \text{ cm}^2$   
(2)  $67.5 \text{ cm}^2$   
(3)  $90 \text{ cm}^2$   
(4)  $108 \text{ cm}^2$

# METHODIST GIRLS' SCHOOL

Founded in 1887



## PRIMARY 5 SEMESTRAL ASSESSMENT 1 2014 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 5. \_\_\_\_\_

Date: 15 May 2014

MARKS OBTAINED

Paper 1 Booklet A	/ 20
Paper 1 Booklet B	/ 20
Paper 2	/ 60
<b>TOTAL</b>	<b>/ 100</b>

This booklet consists of 7 printed pages including this page.



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 Write five million, twenty thousand and fourteen in figures.

Ans: \_\_\_\_\_

17 Divide 3480 by 40.

Ans: \_\_\_\_\_

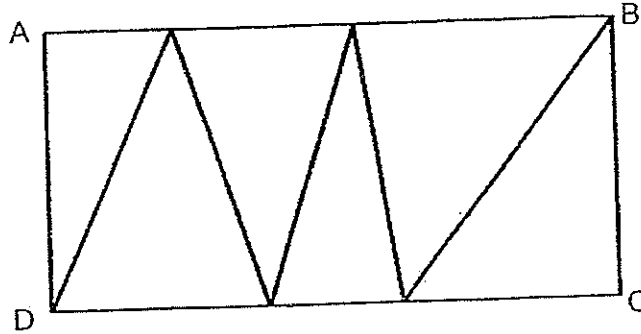
18 Ahmad, Ben and Charlie some marbles in the ratio 2 : 5 : 7. What fraction of the total number of marbles did Charlie receive? Give your answer in the simplest form.

Ans: \_\_\_\_\_

19 Mrs Tan packed  $\frac{4}{5}$  kg of sweets into 8 bags. What is the mass of each bag of sweets? Leave your answer in the simplest form.

Ans: \_\_\_\_\_ kg

- 20 ABCD is a rectangle. What fraction of the rectangle is shaded?



Ans: \_\_\_\_\_

Do not write  
in this space

- 21 The area of a square is  $81 \text{ cm}^2$ . What is its perimeter?

Ans: \_\_\_\_\_ cm

- 22 Jack and Jill shared some stickers in the ratio of 3 : 7.  
Jack gave  $\frac{1}{6}$  of his stickers to Jill.  
What was the ratio of the number of Jill's stickers to the number of Jack's stickers in the end?

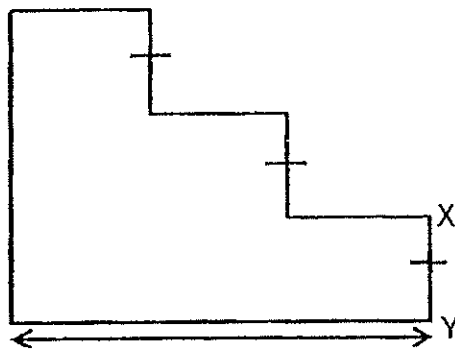
Ans: \_\_\_\_\_

23. Ali bought  $5\frac{1}{2}$  kg of meat. He gave  $\frac{1}{3}$  of it to his neighbour and  $\frac{1}{3}$  of the remainder to Mr Lim. How much meat did he have left for himself? Give your answer as a mixed number in its simplest form.

Ans: \_\_\_\_\_ kg

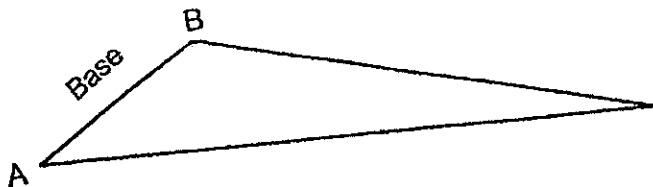
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24. The perimeter of the figure below is 40 cm. Find the length of XY.



Ans: \_\_\_\_\_ cm

25. In the figure below, AB is the base of the triangle. Draw the height and label it CD.



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)

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- 26 The first of May falls on a Thursday. On which day of the week will 30 May fall on?

Ans: \_\_\_\_\_

- 27 At a bookshop, pens are sold in packs of three and rulers are sold in packs of five. The cost of a pack of pens is the same as the cost of 2 packs of rulers. Mrs Siva paid \$48 for 36 such pens. What was the cost of a pack of rulers?

Ans: \$ \_\_\_\_\_

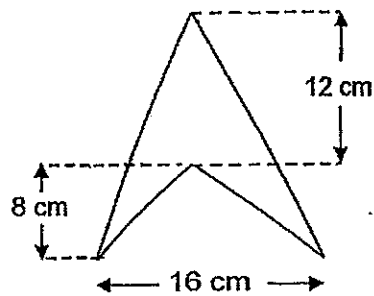


- 28 Hanny, Idris and Jaya shared  $\frac{11}{12}$  kg of rice. Hanny took  $\frac{1}{2}$  of the amount of rice. After Hanny had taken her share, Idris took  $\frac{1}{4}$  of the amount of rice which remained and Jaya took the rest. How much rice did Jaya get?

Do not wr  
in this spa

Ans: \_\_\_\_\_ kg

- 29 Find the area of the figure below.



Ans: \_\_\_\_\_ cm<sup>2</sup>

- 30 Farid had 75 stamps. He kept  $\frac{2}{5}$  of the stamps and gave the rest to James and Kevin in the ratio 2 : 3 respectively. How many stamps did Kevin get?

Do not write  
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Ans: \_\_\_\_\_

END OF PAPER

# METHODIST GIRLS' SCHOOL

Founded in 1887



## PRIMARY 5 SEMESTRAL ASSESSMENT 1 2014 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.

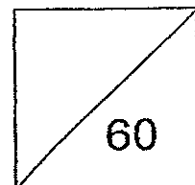
Write your answers in this booklet.

The use of an approved calculator is expected, where appropriate.

Name: \_\_\_\_\_ ( )

Class: Primary 5. \_\_\_\_\_

Date: 15 May 2014



This booklet consists of 15 printed pages including this page.

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)

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write in this  
margin

- 1 Muffins are sold at \$1.50 each or 3 for \$4. Uma paid \$39 for the muffins she bought.  
What was the largest possible number of muffins that Uma bought?

Ans: \_\_\_\_\_

- 2 Three similar jugs are filled with water.  
The amount of water in Jug A is three times as much as the water in Jug B.  
The ratio of the amount of water in Jug C to the amount of water in A is 3 : 5.  
What is the ratio of the amount of water in Jug C to the total amount of water in Jugs A and B.

Ans: \_\_\_\_\_

- 3 Geraldine spent  $\frac{5}{8}$  of her money on a dress and  $\frac{2}{3}$  of the remainder on a pair of shorts. She then had \$25 left. How much did she have at first?

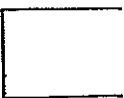
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Ans: \$ \_\_\_\_\_



- 4 The length of a rectangle is 3 times its breadth.  
The area of the rectangle is  $192 \text{ cm}^2$ .  
What is the breadth of the rectangle?

Ans: \_\_\_\_\_ cm



- 5 The sum of 2 numbers, M and N, is  $9\frac{1}{2}$ .  
The difference between M and N is 2.  
What is the smaller number?  
Give your answer in the simplest form.

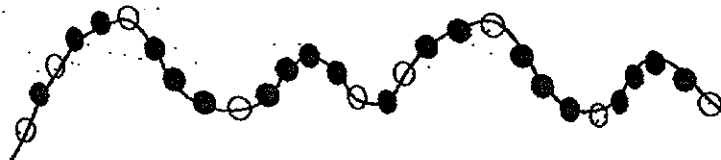
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Ans: \_\_\_\_\_

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 Alice made a necklace using black and white beads. She strung the beads in the following pattern. She used a total of 98 beads. How many white beads were there in the necklace?

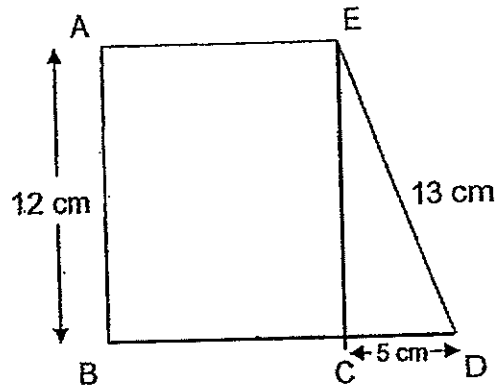


Ans: \_\_\_\_\_ [3]

- 7 There were 990 green and red beans in a basket.  $\frac{1}{5}$  of the green beans was equal to  $\frac{1}{4}$  of the red beans. How many red beans were in the basket?

Ans: \_\_\_\_\_ [3]

- 8 The area of triangle CDE is  $\frac{1}{4}$  the area of rectangle ABCE.  
What is the length of BC?



Do no  
in this

Ans: \_\_\_\_\_ [3]





- 9 The ratio of the number of boys to the number of girls in a dance academy was 2 : 9. There were 35 more girls than boys.
- (a) How many boys were there at the dance academy?
- (b) How many children were there altogether?

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in this space

Ans: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [1]

- 10 Ali had \$130 and Xiao Ling had \$100.  
After they each donated an equal amount of money to charity, Xiao Ling had  $\frac{1}{4}$  as much money as Ali.  
How much money had Ali left?

Ans: \_\_\_\_\_ [3]

- 11 A group of tourists ordered a set lunch each at a restaurant.  
The cost of the set lunch is \$18 per person.  
For every 8 paying customers, the ninth customer does not need to pay.  
The group of tourists paid \$828 altogether.  
How many tourists were there in the group?

Do not  
in this

Ans: \_\_\_\_\_ [4]



- 12 Sumei had some money.  
She spent an equal amount of money every day.  
At the end of the fourth day, she had  $\frac{2}{3}$  of her money left.  
At the end of the seventh day, she had \$20 left.  
How much money did she have at first?

Do not write  
in this space

Ans: \_\_\_\_\_ [4]

13 A bottle completely filled with soda has a mass of 950 g.

When it is  $\frac{2}{7}$  - filled with soda, the mass is 550 g.

- (a) What is the mass of the empty bottle?
- (b) What is the mass of the bottle when it is half-filled with soda?

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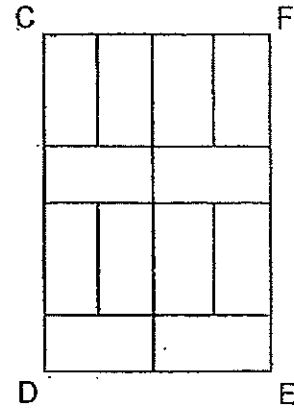
Ans: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [2]



- 14 Rectangle CDEF is divided into 12 identical small rectangles as shown below.  
The perimeter of rectangle CDEF is 160 cm.

- (a) What is the length of rectangle CDEF?  
(b) What is the area of rectangle CDEF?



Do not write  
in this space

Ans: (a) \_\_\_\_\_ [3]

(b) \_\_\_\_\_ [1]



- 15 There were 83.1  $\ell$  of water in a storage tank. Kassim poured some of it equally into 9 similar big pails and 7 similar small pails. The amount of water in each big pail is twice as much as the amount of water in each small pail. When all the big and small pails were filled, he had 5.85  $\ell$  of water left. How much water was there in 1 big pail? Give your answer in litres.

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in this :

Ans: \_\_\_\_\_ [4]

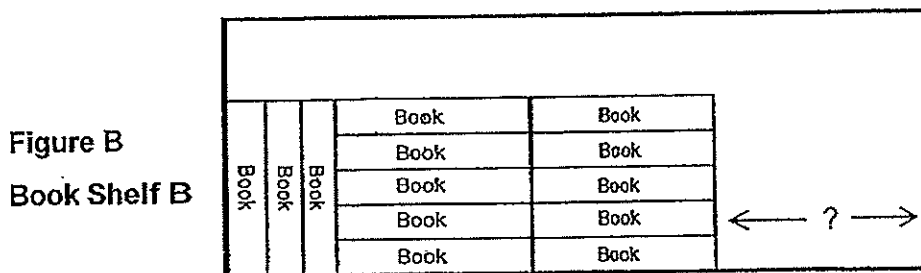
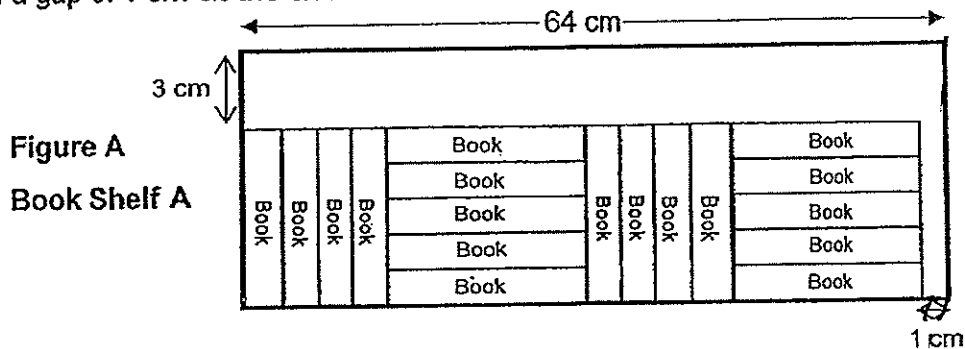


16

Eighteen similar-sized books are arranged in Book Shelf A as shown in Figure A. Thirteen of these books are then re-arranged in Book Shelf B as shown in Figure B.

Both the book shelves are of the same size and are 64 cm long. The first arrangement in book shelf A leaves a gap of 3 cm at the top and a gap of 1 cm at the side.

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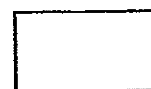


- (a) In the arrangement shown in book shelf B, what is the width of the gap at the side?  
 (b) What is the height of the book shelf?

Ans: (a) \_\_\_\_\_ [3]

(b) \_\_\_\_\_ [2]

(Go on to the next page)



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17 Mrs Tan bought a tin of biscuits.

Her son filled his lunch box with  $\frac{1}{5}$  of the biscuits and took an additional 5 biscuits for his best friend.

Her daughter filled her lunch box with  $\frac{1}{5}$  of the remaining biscuits and packed another 10 biscuits for her friends.

There were 18 biscuits left.

- (a) How many biscuits did Mrs Tan's daughter take for herself and her friends?  
(b) How many biscuits were there at first?

a) \_\_\_\_\_ [3]

b) \_\_\_\_\_ [2]

Ans: \_\_\_\_\_ [5]





- 18 George saved 10-cent, 20-cent and 50-cent coins in his piggy bank in the ratio 20 : 15 : 8.  
The value of all the 20-cent coins was \$90.

- (a) How many coins were there in the piggy bank?  
(b) What was the value of the 50-cent coins?

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Ans: (a) \_\_\_\_\_ [3]

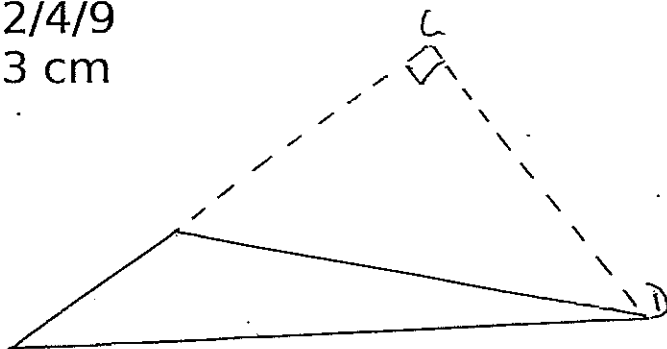
(b) \_\_\_\_\_ [2]

END OF PAPER



Methodist Girls' School  
Semestral Assessment 1 2014  
Primary 5

- 1) 2
- 2) 3
- 3) 2
- 4) 3
- 5) 4
- 6) 3
- 7) 2
- 8) 1
- 9) 2
- 10) 4
- 11) 3
- 12) 2
- 13) 4
- 14) 1
- 15) 1
- 16) 5 020 014
- 17) 87
- 18)  $\frac{1}{2}$
- 19)  $\frac{1}{10}$  kg
- 20)  $\frac{1}{2}$
- 21) 36 cm
- 22) 3 : 1
- 23)  $\frac{2}{4/9}$
- 24) 3 cm
- 25)



26) There are 7 days in a week.

$$30/7 = 4 \text{ R } 2$$

If 1 May falls on a Thursday then 7 May will fall on Wednesday. Hence, 2 days later will fall on Friday.

27)  $36/3 = 12$  packs

$$\$48/12 = \$4$$

$$\$4/2 = \$2$$

28)  $1/2 * 11/12 = 11/24$  (Hanny)

$$11/12 - 11/24 = 11/24$$

$$1/4 * 11/24 = 11/96$$
 (Idris)

$$11/24 + 11/96 = 55/96$$

$$11/12 - 55/96 = 11/32$$
 (Jaya)

29)  $1/2 * 16 * 20 = 160$

$$1/2 * 16 * 8 = 64$$

$$160 - 64 = 96 \text{ sq cm}$$

30)  $75/5 = 15$

$$15 * 2 = 30$$

$$75 - 30 = 45$$

$$45/5 = 9$$

$$9 * 3 = 27$$

### Paper 2

1)  $39/4 = 9 \text{ R } 3$

$$9 * 3 = 27$$

$$3/1.5 = 2$$

$$27 + 2 = 29$$

2) A : B : C

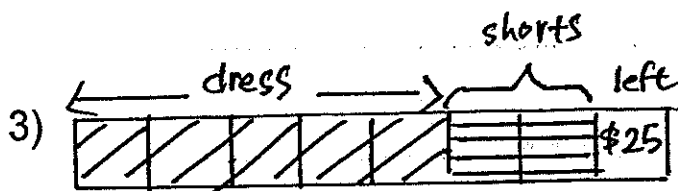
$$3 : 1$$

$$5 : 3$$

---

$$15 : 5 : 9$$

$$9 : 20$$



$$25 \times 8 = 200$$

4)  $192 \div 3 = 64$

$$64 = 8 \times 8$$

The breadth is 8cm.

5)  $9 \frac{1}{2} - 2 = 7 \frac{1}{2}$

$$(7 \frac{1}{2}) \div 2 = 3 \frac{3}{4}$$

6) 4 whites + 10 blacks = 14 beads

$$98 \div 14 = 7$$

$$7 \times 4 = 28$$

7)  $990 \div 9 = 110$

$$110 \times 4 = 440$$

8)  $\frac{1}{2} \times 5 \times 12 = 30$

$$30 \times 4 = 120$$

$$120 \div 12 = 10 \text{cm}$$

9) B : G

$$2 : 9$$

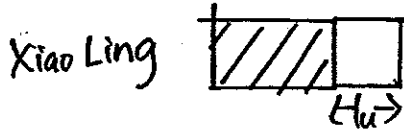
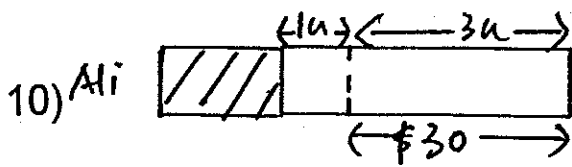
a)  $9 - 2 = 7$

$$35 \div 7 = 5$$

$$5 \times 2 = 10 \text{ boys}$$

b)  $9 + 2 = 11$

$$5 \times 11 = 55 \text{ children}$$



$$30/3 = 10$$

$$10 + 30 = \$40 \text{ left}$$

11)  $18 * 8 = 144$

$$828 / 144 = 5 \text{ R}108$$

$$108 / 18 = 6 \text{ groups}$$

$$5 * 9 = 45$$

$$45 + 6 = 51 \text{ tourists}$$

12)  $1 - 2/3 = 1/3$

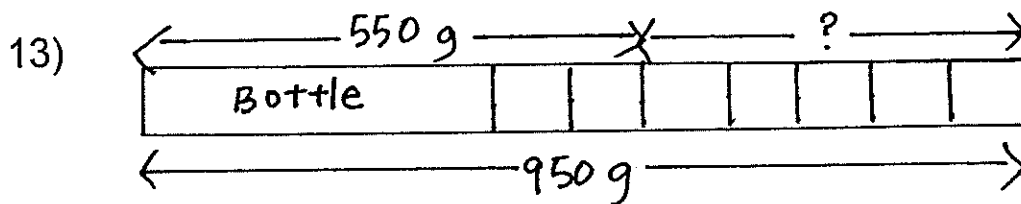
$$(1/3) / 4 = 1/12$$

$$1/12 * 7 = 7/12$$

$$1 - 7/12 = 5/12$$

$$20/5 = 4$$

$$4 * 12 = \$48 \text{ at first}$$



a)  $950 - 550 = 400$

$$400 / 5 = 80$$

$$80 * 2 = 160$$

$$550 - 160 = 390 \text{ (empty bottle)}$$

b)  $3/1/2 * 80 = 280$

$$280 + 390 = 670$$

14) 1 length = 2 breadths

a) Perimeter = 6 lengths + 8 breadths

$$= 6 \text{ lengths} + 4 \text{ lengths}$$

$$10 \text{ lengths} = 160$$

$$1 \text{ length} = 160 / 10 = 16$$

$$\text{Length of rectangle CDEF} = 16 * 2 + 8 + 8 = 48 \text{ cm}$$

14b) Breadth of rectangle =  $16 \times 2 = 32 \text{ cm}$   
Area of rectangle CDEF =  $48 \times 32 = 1536 \text{ sq cm}$

15)  $83.1 - 5.85 = 77.25$   
 $77.25 / 25 = 3.09$   
 $3.09 \times 2 = 6.18 \text{ litres}$

16) 1 length = 5 breadths

a)  $64 - 1 = 63$   
 $5 \times 2 = 10$   
 $10 + 4 + 4 = 18$   
 $63 / 18 = 3.5$   
 $3.5 \times 13 = 45.5$   
 $64 - 45.5 = 18.5 \text{ cm}$

b)  $3.5 \times 5 = 17.5$   
 $17.5 + 3 = 20.5 \text{ cm}$

17a)  $18 + 10 = 28$   
 $28 / 4 = 7$   
 $7 + 10 = 17 \text{ (daughter \& friend)}$

b)  $17 + 18 = 35$   
 $35 + 5 = 40$   
 $40 / 4 = 10$   
 $10 + 5 = 15 \text{ (son \& friend)}$

18)  $10c : 20c : 50c$   
 $20 : 15 : 8$

a)  $9000 / 20 = 450$   
 $450 / 15 = 30$   
 $20 + 15 + 8 = 43$   
 $43 \times 30 = 1290$

b)  $8 \times 30 = 240$   
 $240 \times 0.50 = \$120 \text{ (50c)}$







**NAN HUA PRIMARY SCHOOL  
SEMESTRAL ASSESSMENT 1 – 2014  
PRIMARY 5**

**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 : 5 \_\_\_\_\_

Date : 16 May 2014

Parent's Signature: \_\_\_\_\_

**Section A (20 marks)**

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) and shade on the oval (1, 2, 3 or 4) on the Optical Answer Sheet (OAS).

1. How many thousands are there in 2 780 000?
  - (1) 278
  - (2) 2 780
  - (3) 27 800
  - (4) 278 000
  
2. Which one of the following has the digit '6' in the hundred thousands place?
  - (1) 1 234 659
  - (2) 2 176 934
  - (3) 3 867 524
  - (4) 4 678 912
  
3. Find the value of  $40 \times 5 + 24 - 8 \div 2$ .
  - (1) 108
  - (2) 208
  - (3) 220
  - (4) 520

4. Find the product of  $\frac{2}{9}$  and  $\frac{3}{10}$ .

(1)  $\frac{1}{15}$

(2)  $\frac{5}{19}$

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

(4)  $\frac{5}{90}$

5. How many quarters are there in  $9\frac{1}{2}$ ?

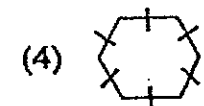
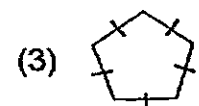
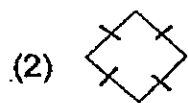
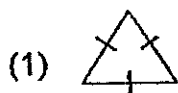
(1) 18

(2) 19

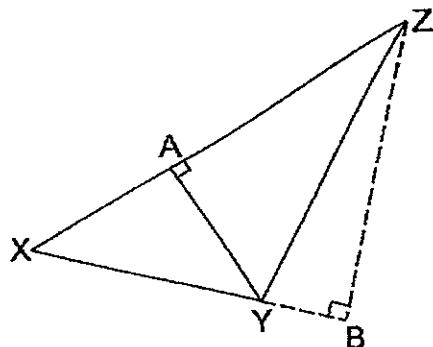
(3) 36

(4) 38

6. Which one of the following shapes cannot be tessellated?



7. In the figure below, not drawn to scale, XYZ is a triangle.  
 Given that XY is the base, which one of the following is the height?



- (1) XA
  - (2) AZ
  - (3) YZ
  - (4) BZ
8. Some shapes are arranged in the following pattern:



Which shape is at the 59<sup>th</sup> position?

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

9. The total age of Andy, Bryan and Calvin is 72 years old. Andy is 21 years old. The ratio of Bryan's age to Calvin's age is 1 : 2. How old is Bryan?

- (1) 17 years old
- (2) 24 years old
- (3) 34 years old
- (4) 51 years old

10. Mrs Tan has a total of 150 sweets. 14 of them are apple-flavoured, 36 are grape-flavoured and the rest are orange-flavoured. What is the ratio of the number of orange-flavoured sweets to the number of grape-flavoured sweets?

- (1) 50 : 7
- (2) 25 : 9
- (3) 2 : 3
- (4) 1 : 2

11. Ali has twice as many stickers as Bala and five times as many stickers as Lynn. What is the ratio of the number of stickers Bala has to the number of stickers Lynn has?

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

12. Tony spent  $\frac{1}{2}$  of his money on a watch and  $\frac{1}{5}$  of his money on a shirt. He then found out that he had \$27 left. How much money did he spend in all?

- (1) \$90
- (2) \$63
- (3) \$45
- (4) \$18

13. A container can either hold 16 identical pencils or 12 identical markers. If there are already 4 such pencils in the container, what is the greatest number of markers that can be placed in the **remaining space** in the container?

- (1) 6
- (2) 9
- (3) 10
- (4) 12

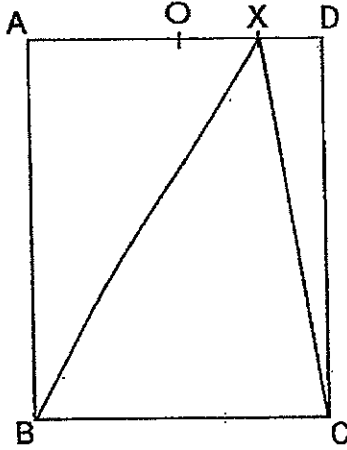
14. Study the following pattern carefully.

$$1 + 2 + 3 + \dots + 93 + 94 + 95$$

When all the numbers from 1 to 95 are added up, what is the digit in the ones' place?

- (1) 1
- (2) 2
- (3) 6
- (4) 0

15. In the figure below, not drawn to scale, ABCD is a rectangle.  
 $OA = OD$ .  $XO = XD$ . If triangle XDC is  $32 \text{ cm}^2$ , find the area of triangle XAB.



- (1)  $64 \text{ cm}^2$
- (2)  $96 \text{ cm}^2$
- (3)  $128 \text{ cm}^2$
- (4)  $160 \text{ cm}^2$

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.

16.  $1\frac{3}{8}$  kg =  g

Ans: \_\_\_\_\_

17. List all the common factors of 15 and 30.

Ans: \_\_\_\_\_

18. What is the missing number in the box?

36 : 81 =  : 9

Ans: \_\_\_\_\_

19. Express 20 minutes out of 2 hours as a ratio in the simplest form.

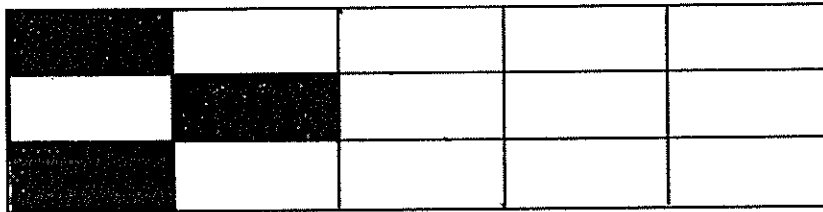
Ans: \_\_\_\_\_



20. Express  $2\frac{4}{9}$  as a decimal correct to 2 decimal places.

Ans: \_\_\_\_\_

21. How many **more** rectangles must be shaded such that the number of shaded rectangles is  $\frac{2}{3}$  the total number of rectangles?



Ans: \_\_\_\_\_

22. Insert a pair of brackets, ( ), anywhere in the mathematical expression below to make it true.

$$25 + 10 + 12 \div 11 = 27$$

23. The price of an apartment is a 6-digit whole number. When this price is rounded off to the nearest \$1000, the amount is \$670 000. What could be the highest possible price of the apartment?

Ans: \$ \_\_\_\_\_

24. Using the number cards provided below, form the greatest 4-digit odd number. Each digit can only be used once.



Ans: \_\_\_\_\_

25. Marcus bought  $\frac{7}{8}$  litres of orange juice. He drank  $\frac{1}{3}$  of the orange juice. How much orange juice did Marcus have left?

Ans: \_\_\_\_\_ litres

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.

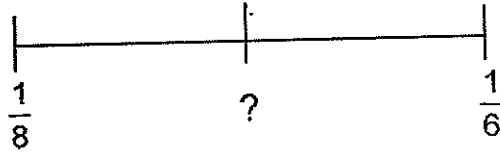
26. The ratio of the number of boys to the number of girls in a school was 7 : 13 . There were 390 more girls than boys. How many pupils were there in the school?

Ans: \_\_\_\_\_ pupils

27. Mr. Tan is 40 years old. He is eight years older than Mrs. Tan. Find the ratio of Mr. Tan's age to their total age in the simplest form.

Ans: \_\_\_\_\_

28. In the number line below, find the fraction exactly halfway between  $\frac{1}{8}$  and  $\frac{1}{6}$



Ans: \_\_\_\_\_

29. 6 similar bottles of water can fill  $\frac{3}{5}$  of a water tank.  
3 similar bottles and 4 similar cups of water can fill  $\frac{2}{5}$  of the water tank  
How many cups of water are needed to fill an identical empty water tank to its brim?

Ans: \_\_\_\_\_ cups

30. In a music class, Amy rings a bell once every 2 seconds while Clare claps once every 3 seconds. At 8 a.m., the timer starts (none of them rings or claps at 8 a.m.). How many times can a ring and a clap be heard together 31 seconds after 8 a.m.?

Ans: \_\_\_\_\_

**END OF PAPER 1**



NAN HUA PRIMARY SCHOOL  
SEMESTRAL ASSESSMENT 1 – 2014  
PRIMARY 5

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
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Name : \_\_\_\_\_ (       )

Class : 5 \_\_\_\_\_

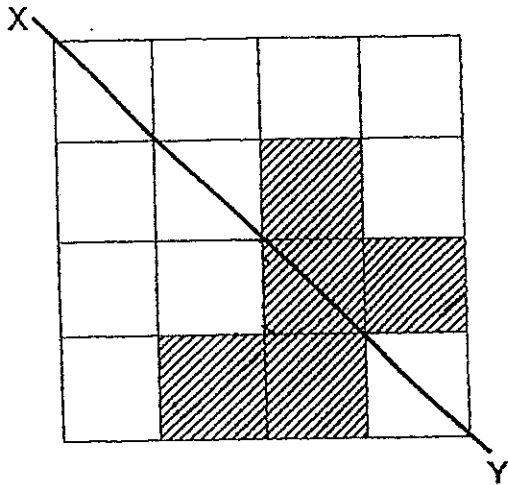
Date : 16 May 2014

Parent's Signature : \_\_\_\_\_

**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.

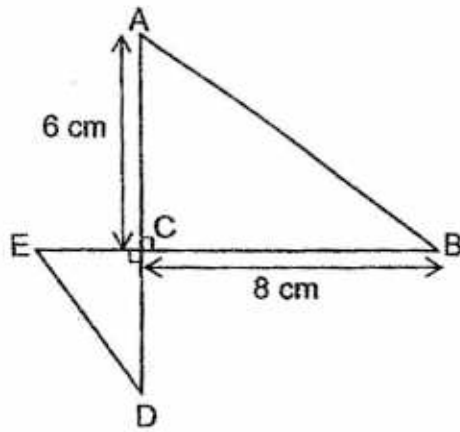
1. Shade 2 more squares to make the figure symmetrical along the line XY.



2. When a number is divided by 5, the remainder is 2. When the same number is divided by 6, the remainder is 1.  
What is this number if it is more than 30 but less than 40?

Ans: \_\_\_\_\_

3. The figure, not drawn to scale, shows 2 triangles, ABC and CDE. EB is 12 cm and AD is 10 cm. Find the total area of triangle ABC and triangle CDE.



Ans: \_\_\_\_\_ cm<sup>2</sup>

4. Jon and Stanley had some stickers each.

$\frac{3}{5}$  of Jon's stickers is equal to  $\frac{6}{7}$  of Stanley's stickers.

What is the ratio of Stanley's total number of stickers to Jon's total number of stickers?

Ans: \_\_\_\_\_



5. The table below shows the postage rates for sending parcels to Country A.

Air Rate	Postage
First 5 kg	\$30
Every additional 1 kg or part thereof	\$5

What is the postage for a parcel of mass 6 kg 250 g sent to Country A?

Ans: \$ \_\_\_\_\_

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

- 6 There were some motorcycles and cars in a carpark. There was a total of 56 vehicles and 158 wheels. How many cars were there?

Ans: \_\_\_\_\_ [3]

7. For every \$5 Melissa saved, her mother gave her another \$2.  
How much money was saved by Melissa if she had a total of \$179  
in the end?

Ans: \_\_\_\_\_ [3]

8. Anita spent  $\frac{3}{7}$  of her money on some toys and  $\frac{1}{2}$  of the remaining money on some stationery.

- (a) What fraction of her money did she spend on stationery?  
(b) If she was left with \$55, how much money did she have at first?

Ans: (a) \_\_\_\_\_ [1]

(b) \_\_\_\_\_ [2]

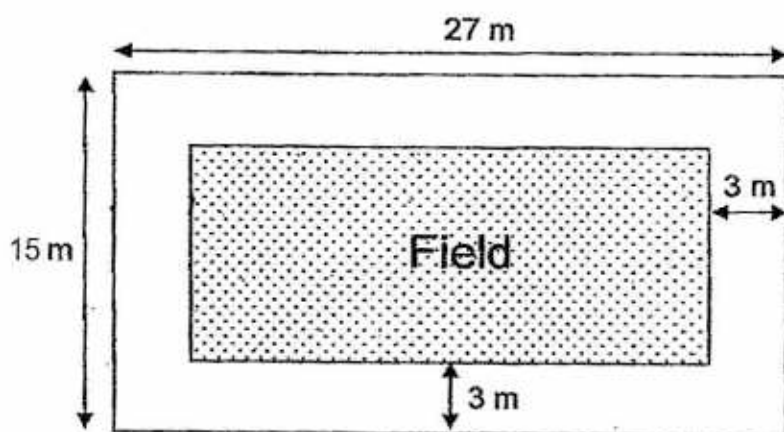
9. Angeline has \$8. Belinda has \$12 more than Angeline. Belinda has \$6 less than Cindy.

Find the ratio of Cindy's share to Belinda's share.

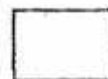
Give your answer in the simplest form.

Ans: \_\_\_\_\_ [3]

10. The figure below, not drawn to scale, shows a field which is surrounded by a path. The field has a 3m path surrounding it. Find the area of the path.



Ans: \_\_\_\_\_ [3]



11. Tom had 90 more marbles than Jerry at first. After Tom gave 105 marbles to Jerry, Jerry had 6 times as many marbles as Tom. Find the number of marbles Tom had at first.

Ans: \_\_\_\_\_ [4]

12. The ratio of Paul's savings to Smith's savings was 5 : 7. If Paul saved \$27 more and Smith spent \$5, they would have the same amount of money. How much was Smith's savings ~~at first?~~

Ans: \_\_\_\_\_ [4]

13. Josh's auntie is thrice of Josh's age now.

Their combined age 4 years ago was 60.

- (a) How old is Josh's auntie now?
- (b) What is the ratio of Josh's age to his auntie's age 3 years from now? Give your answer in the simplest form.

Ans: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [2]

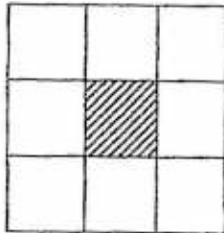
14. Amy had some beads. She used  $\frac{3}{5}$  of them on Monday and  $\frac{7}{8}$  of the rest on Tuesday. She bought another 399 beads and then had as many beads as she had at first. How many more beads did she use on Monday than Tuesday?

Ans: \_\_\_\_\_ [4]

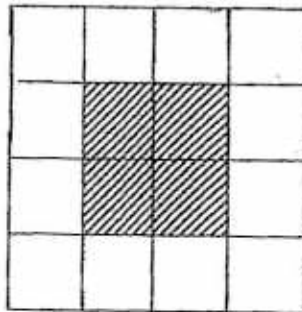


15. Study the pattern carefully and answer the questions that follow.

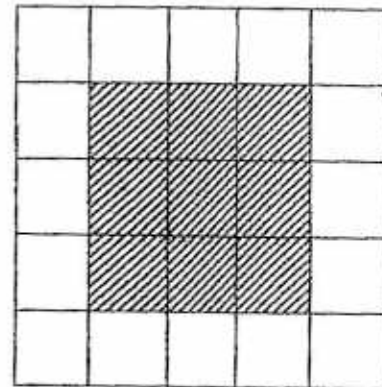
Pattern 1



Pattern 2



Pattern 3

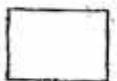


- (a) How many shaded squares are there in Pattern 5?  
(b) How many unshaded squares are there in Pattern 5?  
(c) In which pattern would there be 196 unshaded squares?

Ans: (a) \_\_\_\_\_ [1]

(b) \_\_\_\_\_ [1]

(c) \_\_\_\_\_ [2]

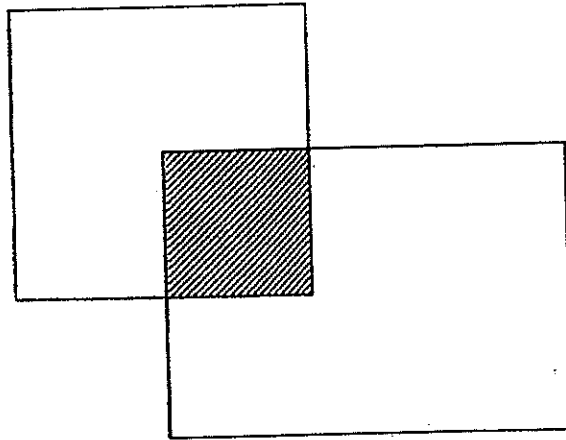




16. There were five times as many boys as girls in a party. Each boy received 3 sweets and each girl received 7 sweets. There was a total of 792 sweets. Find the number of boys who were present.

Ans: \_\_\_\_\_ [5]

17. The figure below, not drawn to scale, is made up of a square and a rectangle.  $\frac{1}{4}$  of the square and  $\frac{2}{11}$  of the rectangle is shaded. The area of the rectangle is  $54 \text{ cm}^2$  larger than the square.
- (a) Find the area of the rectangle.
- (b) Find the area of the figure.



Ans: (a) \_\_\_\_\_ [3]

(b) \_\_\_\_\_ [2]



18. Jennifer bought some boxes of pineapple tarts and almond biscuits for Chinese New Year. She spent a total of \$540 on the pineapple tarts and a total of \$510 on the almond biscuits. Each box of almond biscuits cost \$5 more than each box of pineapple tarts. She bought  $\frac{2}{3}$  as many boxes of almond biscuits as pineapple tarts. Find the cost of each box of almond biscuits.

Ans: \_\_\_\_\_ [5]



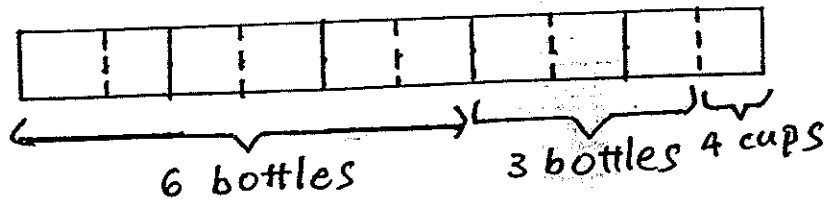
END OF PARER 2



**Nan Hua Primary School  
Semestral Assessment 1 (2014)  
Primary 5**

- 1) 2
- 2) 4
- 3) 3
- 4) 1
- 5) 4
- 6) 3
- 7) 4
- 8) 3
- 9) 1
- 10) 2
- 11) 4
- 12) 2
- 13) 2
- 14) 4
- 15) 2
- 16) 1375g
- 17) 1, 3, 5 & 15
- 18) 4
- 19) 1 : 6
- 20) 2.44
- 21) 7
- 22)  $25 + (10 + 12) / 11 = 27$
- 23) \$670 499
- 24) 9405
- 25)  $7/12$
- 26)  $13u - 7u = 6u$   
 $390/6 = 65$   
 $13u + 7u = 20u$   
 $20 * 65 = 1300$  pupils
- 27)  $40 - 8 = 32$   
 $40 : 32 + 40$   
 $5 : 9$
- 28)  $1/8 + 1/6 = 7/24$   
 $(7/24) / 2 = 7/48$

29)



$$10 \times 4 = 40 \text{ cups}$$

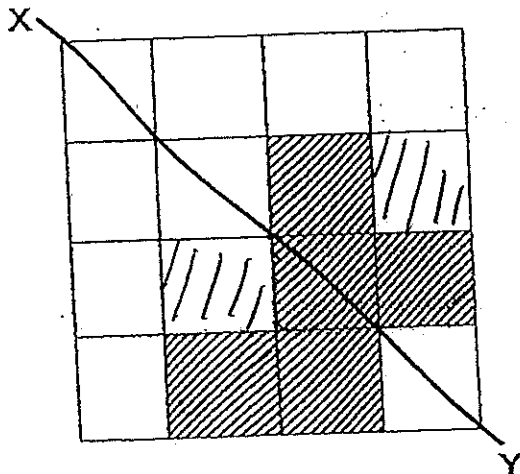
30) Common multiple of 2 & 3 = 6

$$31/6 = 5 \text{ R}1$$

So, a ring & a clap can be heard together 5 times.

Paper 2

1)



2) Multiples of  $6+1 > 30 \dots 37$

Multiples of  $5+2 > 30 \dots 32, 37$

Hence common number is 37

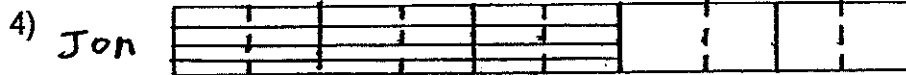
3)  $1/2 \times 8 \times 6 = 24 \text{ sq cm}$

$$12 - 8 = 4$$

$$10 - 6 = 4$$

$$1/4 \times 4 \times 4 = 8$$

$$24 + 8 = 32 \text{ sq cm}$$

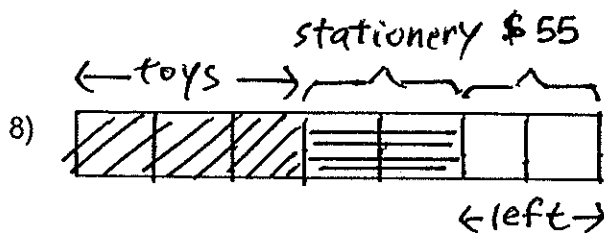


7 : 10

- 5)  $6.25\text{kg} - 5\text{kg} = 1.25\text{kg}$   
 Therefore, will have pay for additional 2kg postage  
 $2\text{kg} * \$5 = \$10$   
 $\$30 + \$10 = \$40$

- 6) Assume all are motorcycles.  
 $56 * 2 = 112$   
 $158 - 112 = 46$  (number of wheels short)  
 $4 - 2 = 2$  (excess wheels)  
 $46 / 2 = 23$  cars

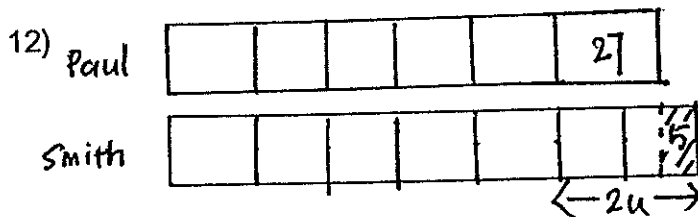
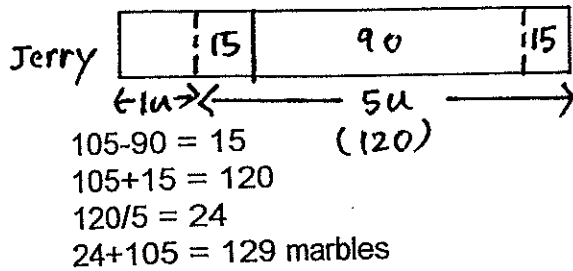
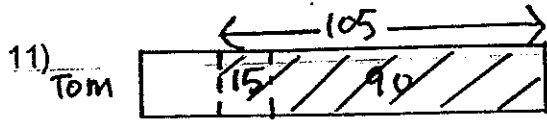
- 7)  $5 + 2 = 7$  (1 set)  
 $179 / 7 = 25 \text{ R}4$  (25 sets with \$4 left over)  
 $25 * 5 = \$125$   
 $\$125 + \$4 = \$129$



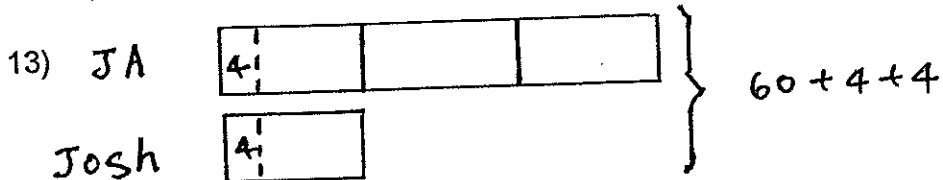
- a)  $2/7$   
 b)  $\$55 / 2 = \$27.50$   
 $\$27.50 * 7 = \$192.50$

- 9) Amount of money Belinda has =  $\$12 + \$8 = \$20$   
 Amount of money Cindy has =  $\$20 + \$6 = \$26$   
 C : B  
 $26 : 20$   
 $13 : 10$

- 10) Area of field & path =  $27 \times 15 = 405$  m  
 Length of field =  $27 - 3 - 3 = 21$  m  
 Breadth of field =  $15 - 3 - 3 = 9$  m  
 Area of field =  $21 \times 9 = 189$  sq m  
 Therefore area of path =  $405 - 189 = 216$  sq m

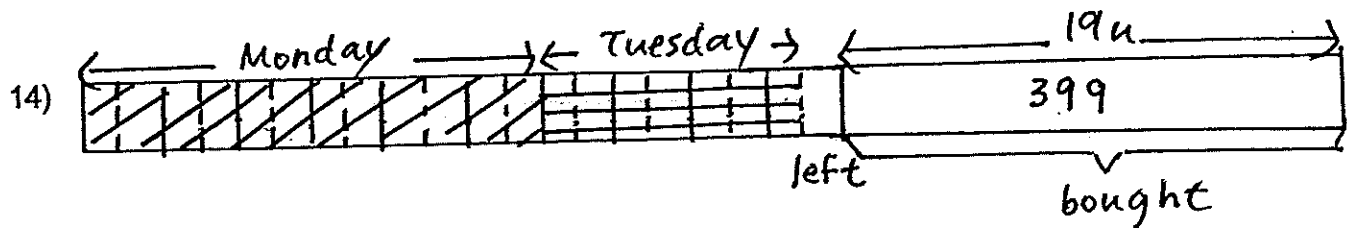


$$\begin{aligned} \$27 + \$5 &= \$32 \\ \$32 / 2 &= \$16 \\ \$16 \times 7 &= \$112 \text{ (Smith's savings)} \end{aligned}$$



- a)  $60 + 4 + 4 = 68$  (present combined age)  
 $68 / 4 = 17$  (Josh's present age)  
 $17 \times 3 = 51$  years old (Aunt's present age)
- b)  $17 + 3 = 20$   
 $51 + 3 = 54$   
 $20 : 54$   
 $10 : 27$





$$\text{Original number of units} = 5 \times 4 = 20$$

$$20 - 1 = 19 \text{ units}$$

$$399 / 19 = 21$$

$$21 \times 5 = 105$$

15a) For the shaded squares, the pattern is pattern number multiplied by pattern number

$$\text{Hence, } 5 \times 5 = 25$$

b) For the unshaded squares, the pattern is to pattern number multiplied by 4, then plus 4

$$\text{Hence, } 5 \times 4 + 4 = 24 \text{ unshaded squares}$$

c)  $196 - 4 = 192$

$$192 / 4 = 48$$

16)  $5 \times 3 = 15$

$$1 \times 7 = 7$$

$$15 + 7 = 22$$

$$792 / 22 = 36 \text{ groups}$$

$$36 \times 5 = 180 \text{ boys}$$

17) Shaded region of rectangle =  $2/11$

a) Since shaded region is common in both shapes, the common numerator is 2 units.

$$\text{Shaded region of square} = 1/4 = 2/8$$

$$11u - 8u = 3u$$

$$54 / 3 = 18$$

$$11 \times 18 = 198 \text{ sq cm}$$

b) Area of figure =  $11u + (8u - 2u) = 17u$

$$17 \times 18 = 306 \text{ sq cm}$$

18) Cost of 2u of almond biscuits = \$510

$$\text{Cost of 1u of almond biscuits} = \$510 / 2 = \$255$$

$$\text{Cost of 3 units of pineapple tarts} = \$540$$

$$\text{Cost of 1 unit of pineapple tarts} = \$540 / 3 = \$180$$

$$\text{Difference in 1 unit cost} = \$255 - \$180 = \$75$$

$$\text{Number of boxes in 1 unit} = 75 / 5 = 15$$

$$\text{Number of boxes of almond biscuits} = 15 \times 2 = 30$$

$$\text{Cost of 1 box of almond biscuits} = \$510 / 30 = \$17$$





NANYANG PRIMARY SCHOOL

FIRST SEMESTRAL EXAMINATION  
2014

PRIMARY 5  
MATHEMATICS  
PAPER 1

DURATION: 50 MINUTES

Booklet A	/ 20
Booklet B	/ 20

Paper 1 Total: / 40
------------------------

Name: \_\_\_\_\_ (       )

Class: Primary 5 (       )

Date: 9 May 2014

Parent's Signature: \_\_\_\_\_

Any query on marks awarded should be raised by 20 May 2014. We seek your understanding in this matter as any delay in the confirmation of marks will lead to delays in the generation of results.

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.

**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 Six million, nine hundred and forty thousand and eight when written in numerals is \_\_\_\_\_.

1) 6 040 908

2) 6 904 008

3) 6 940 008

4) 6 948 000

2 What is the value of  $135 - (57 + 9)$  ?

1) 69

2) 79

3) 87

4) 97

- 3 Find the missing number in the box.

$$\frac{27}{72} = \frac{3}{\boxed{\phantom{00}}}$$

- 1) 6
- 2) 7
- 3) 8
- 4) 9

- 4 Arrange the following fractions in ascending order.

$$\frac{5}{11} \quad , \quad \frac{1}{2} \quad , \quad \frac{7}{8}$$

1)  $\frac{1}{2} \quad , \quad \frac{5}{11} \quad , \quad \frac{7}{8}$

2)  $\frac{1}{2} \quad , \quad \frac{7}{8} \quad , \quad \frac{5}{11}$

3)  $\frac{5}{11} \quad , \quad \frac{1}{2} \quad , \quad \frac{7}{8}$

4)  $\frac{7}{8} \quad , \quad \frac{1}{2} \quad , \quad \frac{5}{11}$

5 Express  $\frac{8}{5}$  as a decimal.

1) 0.625

2) 0.63

3) 1.1

4) 1.6

6 Find the value of  $\frac{5}{6} - \frac{1}{4}$

1)  $\frac{7}{12}$

2)  $\frac{4}{6}$

3)  $\frac{13}{12}$

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

7 Find the product of 7 and  $\frac{5}{12}$ .

1)  $\frac{5}{84}$

2)  $2\frac{1}{12}$

3)  $2\frac{11}{12}$

4)  $7\frac{5}{12}$

8 Find the value of  $50 + 3 + 0.6 + 0.005$ .

1) 50.365

2) 53.065

3) 53.605

4) 53.650

9 Express 4.01 kg in grams.

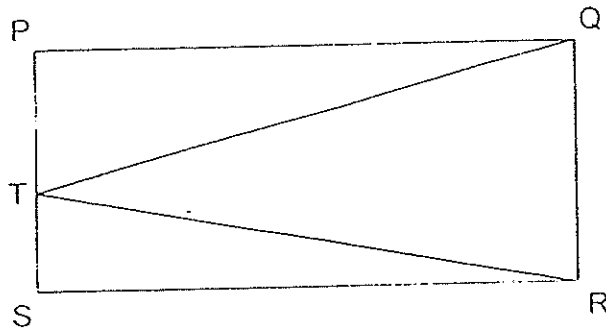
1) 401 g

2) 4010 g

3) 40 100 g

4) 401 000 g

- 10 In the figure below, PQRS is a rectangle. Given that the base of triangle QRT is QR, find its corresponding height.



- 1) SR
  - 2) TR
  - 3) TQ
  - 4) PS
- 11 Beatrice had 3700 beads. She packed 50 beads in each packet and she managed to pack 38 packets of beads. The remaining beads were then shared equally among her and her 9 friends. How many beads did each of them receive?
- 1) 180
  - 2) 200
  - 3) 351
  - 4) 390



12 A rectangular plank has a length of 2.4 m. Its length is 0.56 m longer than its breadth. Find the breadth of the plank.

1) 1.84 m

2) 1.94 m

3) 2.16 m

4) 2.96 m

13 Susie spent  $\frac{3}{7}$  of her money on food. She spent  $\frac{2}{3}$  of the remaining money on transport. What fraction of her money was spent on transport?

1)  $\frac{2}{7}$

2)  $\frac{5}{21}$

3)  $\frac{8}{21}$

4)  $\frac{23}{21}$

- 14 The perimeter of a square is  $\frac{9}{11}$  m. What is the length of each side of the square?

1)  $\frac{9}{22}$  m

2)  $\frac{9}{44}$  m

3)  $\frac{11}{36}$  m

4)  $\frac{44}{9}$  m

- 15 Even numbers are arranged in four columns in a certain pattern as shown below. Which column will the number 68 appear?

Column A	Column B	Column C	Column D
2	4	6	8
10	12	14	16
18	20	22	24
26	28		

- 1) A  
2) B  
3) C  
4) D

**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 Round off 719 825 to the nearest thousand.

Ans: \_\_\_\_\_

---

17 What is the product of 757 and 48?

Ans: \_\_\_\_\_

---

18 Find the value of  $540\,000 \div 2000$ .

Ans: \_\_\_\_\_

---

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

$$125 \times 4 \div 350 \div 7 = 10$$

- 
- 20 Find the product of  $\frac{3}{10}$  and  $\frac{6}{7}$ .

Leave your answer as a fraction in its simplest form.

Ans: \_\_\_\_\_

- 
- 21 Find the value of  $\frac{3}{5} \div 12$ .

Leave your answer as a fraction in its simplest form.

Ans: \_\_\_\_\_

- 22 A book costs \$10.80. It costs 8 times as much as a pen. How much does one pen cost?

Ans: \$ \_\_\_\_\_

---

- 23 Express 0.052 as a fraction in its simplest form.

Ans: \_\_\_\_\_

---

- 24 Round off 2.095 to 2 decimal places.

Ans: \_\_\_\_\_

---

- 25 Mr Gunar bought  $\frac{4}{7}$  m of rope. He used  $\frac{1}{3}$  m of it to tie a parcel.  
How much rope had he left?

\_\_\_\_\_ m

---

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 Find the value of  $170 + 26 \times 4 - 455 \div 13$ .

Ans: \_\_\_\_\_

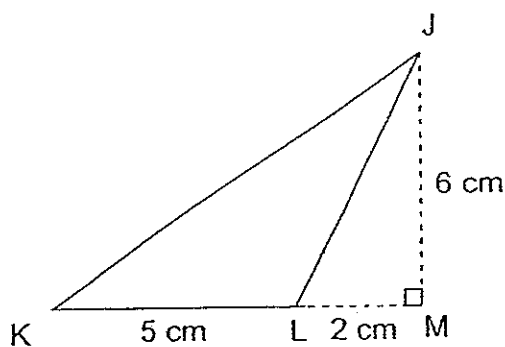
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27 Jonas bought 120.45 m of ribbon. He cut the ribbon into 1000 pieces of equal length. What was the length of each piece of ribbon in centimetres?

Ans: \_\_\_\_\_ cm

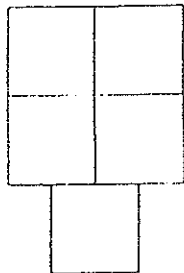
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28 In the figure below,  $KL = 5$  cm,  $LM = 2$  cm and  $JM = 6$  cm. Find the area of Triangle JKL.



Ans: \_\_\_\_\_  $\text{cm}^2$

- 29 The figure below is made up of 5 identical squares. The perimeter of the figure is 38.4 cm. Find the length of each square. Round off your answer to 1 decimal place.



Ans. \_\_\_\_\_ cm

- 30 Look at the pattern below and find out the missing number "a" and "b".

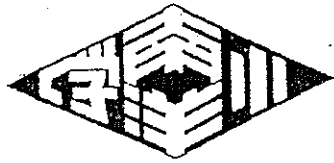
Pattern 1	Pattern 2	Pattern 3	Pattern 4

Pattern Number	Number of circles
1	4
2	8
3	12
4	16
...	...
a	24
...	...
10	b

Ans: a) \_\_\_\_\_

b) \_\_\_\_\_

END OF PAPER



NANYANG PRIMARY SCHOOL

FIRST SEMESTRAL EXAMINATION  
2014

PRIMARY 5  
MATHEMATICS

PAPER 2

DURATION: 1 HOUR 40 MINUTES

Paper 2 Total	/ 60
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GRAND TOTAL	/ 100
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Name: \_\_\_\_\_ ( )

Class: Primary 5 ( )

Date: 9 May 2014

Parent's Signature: \_\_\_\_\_

Any query on marks awarded should be raised by 20 May 2014. We seek your understanding in this matter as any delay in the confirmation of marks will lead to delays in the generation of results.

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.  
FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS. YOU ARE ALLOWED TO USE A CALCULATOR.



**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 difference between 5960 and 445 by first rounding off each number to the nearest hundred.

Ans \_\_\_\_\_

- 
- 2 Xinyi is 24 years old now. She is 6 times as old as her sister. What was their total age 3 years ago?

- 
- 3 Jason poured 736 *ml* of orange juice equally into 4 jugs. How many litres of orange juice will 24 such jugs contain?

Ans: \_\_\_\_\_ l

- 4 Mrs Singh brewed some tea for a party. After serving  $4\frac{4}{9}$  l of it to her guests, she brewed another  $1\frac{1}{2}$  l of tea and was left with  $3\frac{11}{12}$  l. How much tea did she brew at first? Leave your answer as a mixed number in its simplest form.

Ans: \_\_\_\_\_ l

---

- 5 What is the missing number in the box below?

$$10 \times 19 = 20 + 30 + 20 \times \boxed{\phantom{00}} + 40$$

Ans: \_\_\_\_\_

---

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. Marks will be awarded for the relevant number sentences.

(50 marks)

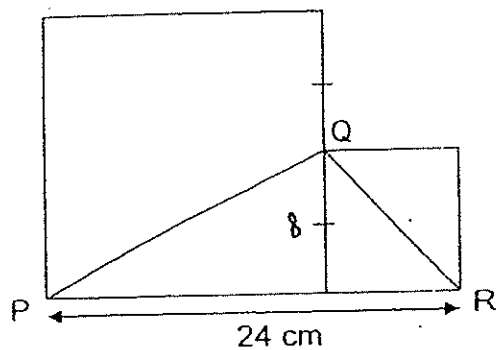
- 
- 6 The length of a rectangle is 6 times its breadth. The breadth is  $13\frac{1}{6}$  cm long. Find the area of the rectangle. Leave your answer as a mixed number in its simplest form.

Ans: \_\_\_\_\_ [3]

- 
- 7 A tap fills  $\frac{3}{7}$  of a tank in 2 hours. How many hours does the tap take to fill 3 such tanks?

Ans: \_\_\_\_\_ [3]

- 8 The figure below consists of 2 squares and Triangle PQR. PR = 24 cm. The length of the bigger square is twice the length of the smaller square. Find the area of Triangle PQR.



Ans: \_\_\_\_\_ [3]

- 9 Jared ran  $\frac{4}{5}$  km during a race. Tim ran thrice of Jared's distance. Myra ran  $\frac{2}{3}$  of Tim's distance. How many kilometres did Myra run? Leave your answer as a mixed number in its simplest form.

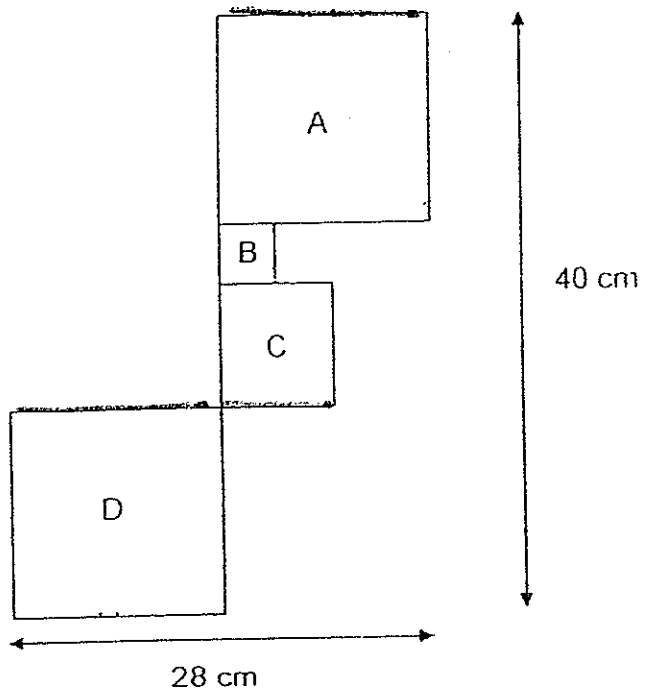
Ans: \_\_\_\_\_ [3]

- 10 Container A, B and C contained 61.2 l of water in total. Rahim poured 3.8 l of water from Container A to B and 2.6 l of water from Container C to A respectively. In the end, there was an equal amount of water in each container. How many more litres of water were there in Container C than Container B at first?

Ans: \_\_\_\_\_ [3]

---

- 11 The figure below is made up of 4 squares. Squares A and D are identical. The length of Square B is half of the length of Square C. Find the perimeter of the figure.



Ans: \_\_\_\_\_ [4]

- 12 At a theme park, each adult was given 1 balloon and each child was given 3 balloons. The number of boys was  $\frac{7}{8}$  of the number of girls. The number of adults was  $\frac{3}{4}$  of the number of girls. There were 612 balloons distributed in total. How many children were there at the theme park?

Ans: \_\_\_\_\_ [4]

13 Lisa bought 57 kg of flour and 22 kg of sugar to bake some cakes. For each cake, the amount of flour required was 5 times the amount of sugar required. After baking 8 such cakes, there were 4 kg of flour and some sugar left.

(a) How many kilograms of flour were used to bake one cake?

(b) How much sugar was left? Give your answer to the nearest kg.

Ans: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [2]

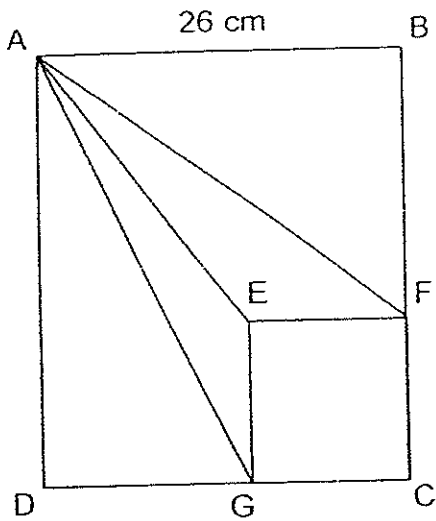


- 14 Mr Tan was paid \$5 for each flower pot delivered unbroken. He was paid \$2 for each broken flower pot. He delivered a total of 305 flower pots and was paid \$1363. How many flower pots did he deliver unbroken?

Ans: \_\_\_\_\_ [4]

---

- 15 In the figure below, ABCD is a rectangle with a perimeter of 112 cm. EFCG is a square with an area of  $144 \text{ cm}^2$ .  $AB = 26 \text{ cm}$ . Find the total area of Triangle AEG and Triangle AEF.



Ans: \_\_\_\_\_ [4]

- 16 In Count Megastore, an oven cost \$36.80 more than a blender. An oven cost \$68.80 less than a microwave. Mr Tan paid \$1196 for 4 ovens, 6 blenders and 2 microwaves for his café.
- (a) Find the cost of one blender.
- (b) During a sale, Count Megastore sold 4 ovens for \$300. How much would Mr Tan save on his 4 ovens if he had bought them during the sale?

Ans: (a) \_\_\_\_\_ [3]

(b) \_\_\_\_\_ [2]

---

17 Benjamin had a sum of money. He spent \$288 on a watch and  $\frac{3}{8}$  of the remainder on a belt. He had  $\frac{2}{5}$  of his money left in the end.

(a) What fraction of the money did he spend on the watch?

(b) How much money did he have at first?

Ans: (a) \_\_\_\_\_ [3]

Ans: (b) \_\_\_\_\_ [2]

18 At a camp,  $\frac{2}{5}$  of the participants were adults and  $\frac{5}{7}$  of the children were boys. The number of women was  $\frac{2}{3}$  as many as the girls. There were 72 more men than women at the camp.

- (a) What fraction of the participants who attended the camp were girls?
- (b) How many participants attended the camp altogether?

Ans: (a) \_\_\_\_\_ [1]

(b) \_\_\_\_\_ [4]

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END OF PAPER



**EXAM PAPER 2014**

**SCHOOL : NANYANG PRIMARY SCHOOL**

**LEVEL : PRIMARY 5**

**SUBJECT : MATHEMATICS**

**TERM : SA1**

**PAPER 1- BOOKLET A**

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

**PAPER 1 - BOOKLET B**

**Q16** 720 000

**Q17** 36 336

**Q18** 270

**Q19**  $125 \times 4 \div 350 \div 7 = 10$

**Q20**  $9/35$

**Q21**  $1/20$

**Q22** \$1.35

**Q23**  $13/250$

**Q24** 2.10

**Q25**  $7/21$

**Q26**  $170 + 26 \times 4 - 455 \div 13$   
 $= 170 + 104 - 455 \div 13$   
 $= 170 + 104 - 35$   
 $= 274 - 35$   
 $= 239$

Ans : 239

**Q27**  $120.45 \div 1000 = 0.12045$   
 $0.12045 \times 100 = 12.045$

Ans : 12.045cm

**Q28**  $\frac{1}{2} \times 5 \times 6 = 15$

Ans :  $15\text{cm}^2$

**Q29**  $38.4 \div 10 = 3.84$

Ans : 3.8cm

**Q30**  $4 \div 4 = 1$

$8 \div 4 = 2$

$12 \div 4 = 3$

$24 \div 4 = 6$

$10 \times 4 = 40$

a) 6

b) 40

PAPER 2

**Q1**  $5960 \approx 6000$   
 $445 \approx 400$   
 $6000 - 400 = 5600$

Ans : 5600



$6 - 1 = 5$   
 $24 \div 6 = 4$   
 $4 \times 5 = 20$   
 $24 - 3 = 21$   
 $21 - 20 = 1$   
 $21 + 1 = 22$

Ans : 22

**Q3**  $736 \div 4 = 184$   
 $184 \times 24 = 4416$   
 $4416 \text{ml} = 4.416 \text{l}$

Ans : 4.416l

**Q4**  $3 \frac{11}{12} - 1 \frac{1}{2} = 3 \frac{11}{12} - 1 \frac{6}{12} = 2 \frac{5}{12}$   
 $2 \frac{5}{12} + 4 \frac{4}{9} = 6 \frac{31}{36}$

Ans :  $6 \frac{31}{36} \text{ l}$

**Q5**  $10 \times 19 = 190$   
 $190 - 20 - 30 - 40 = 100$   
 $100 \div 20 = 5$

Ans : 5

**Q6**  $13\% \times 6 = 79$   
 $79 \times 13\% = 1040\%$

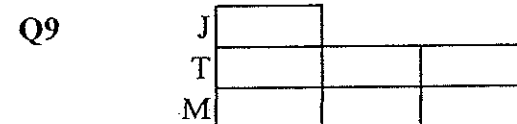
Ans :  $1040\% \text{cm}^2$

**Q7**  $2 \div 3 \times 7 = 4\frac{2}{3}$   
 $4\frac{2}{3} \times 3 = 14$

Ans : 14h

**Q8**  $24 \div 3 = 8$   
 $\frac{1}{2} \times 24 \times 8 = 96$

Ans :  $96 \text{cm}^2$



$\frac{1}{5} \times 2 = \frac{2}{5} = 0.4$   
 $1 + 0.4 = 1.4 = 1\frac{2}{5}$

Ans :  $1\frac{2}{5} \text{km}$

**Q10**  $61.2 \div 3 = 20.4$   
 $20.4 + 206 = 23.0$   
 $20.4 - 3.8 = 16.6$   
 $23.0 - 16.6 = 6.4$

Ans : 6.4l



**Q11**  $40-28=12$   
 $12\div 3=4$   
 $40+40+28+28+8=144$

Ans : 144cm

**Q12**  $1\times 6=6$   
 $7+8=15$   
 $3\times 15=45$   
 $45+6=51$   
 $612\div 51=12$   
 $12\times 15=180$

Ans : 180

**Q13**  $57-4=53$   
 $8\times 5=40$   
 $57\text{kg}=57000\text{g}$   
 $4\text{kg}=4000\text{g}$   
 $57000-4000=53000$   
 $53000\div 40=1325$   
 $1325\times 5=6625$   
 $6625\text{g}=6.625\text{kg}$   
 $22\text{kg}=22000\text{g}$   
 $1325\times 8=10600$   
 $22000-10600=11400$   
 $11400\text{g}=11.4\text{kg}$   
 $11.4\text{kg}\approx 11\text{kg}$

Ans : (a) 6.625kg  
(b) 11kg

**Q14** Assume all the pots delivered are broken.  
 $305\times 2=610$   
 $1363-610=753$   
 $5-2=3$   
 $753\div 3=251$  (delivered unbroken)

Ans : 251

**Q15**  $26\times 6=52$   
 $112-52=60$   
 $60\div 2=30$   
 $144\div 12=12$   
 $30-12=18$   
 $\frac{1}{2}\times 18\times 12=108$   
 $26-12=14$   
 $\frac{1}{2}\times 12\times 14=84$   
 $108+84=192$

Ans : 192cm<sup>2</sup>

**Q16**  $2=4=6$   
 $\$36.80 \times 6 = \$220.80$   
 $2 \times \$68.80 = \$137.60$   
 $\$1196 - \$220.80 - \$137.60 = \$837.60$   
 $4 + 6 + 2 = 12$   
 $\$837.60 \div 12 = \$69.80$   
 $\$69.80 + \$36.80 = \$106.60$   
 $\$106.60 \times 4 = \$426.40$   
 $\$426.40 - \$300 = \$126.40$

Ans : (a) \$69.80  
 (b) \$126.40

**Q17**  $1 - \frac{3}{8} = \frac{5}{8}$   
 $\frac{5}{8}$  of remainder  $\rightarrow \frac{2}{5}$  of money  
 $\frac{2}{5} \div 5 = \frac{2}{25}$   
 $\frac{2}{25} \times 8 = \frac{16}{25}$   
 $1 - \frac{16}{25} = \frac{9}{25}$   
 $\$288 \div 9 = \$32$   
 $\$32 \times 25 = \$800$

Ans : (a)  $\frac{9}{25}$   
 (b) \$800

**Q18**  $\frac{5}{7} \rightarrow$  boys  
 $\frac{2}{7} \rightarrow$  girls  
 $\frac{2}{7} \times \frac{3}{5} = \frac{6}{35}$   
 $10 - 4 = 6$   
 $6u \rightarrow 72$   
 $1u \rightarrow 12$   
 $35u \rightarrow 420$

Ans : (a)  $\frac{6}{35}$   
 (b) 420



**RAFFLES GIRLS' PRIMARY SCHOOL  
SEMESTRAL ASSESSMENT 1  
MATHEMATICS (PAPER 1)  
PRIMARY 5**

Name: \_\_\_\_\_ ( )

Form Class: P5 \_\_\_\_\_

Banded Math Class: P5 \_\_\_\_\_

Date: 8<sup>th</sup> May 2014

Duration: 50 min

<b>Your Paper 1 Score (Out of 40 marks)</b>	
<b>Your Paper 2 Score (Out of 60 marks)</b>	
<b>Your Total Score (Out of 100 marks)</b>	
<b>Parent's Signature</b>	

**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.

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.

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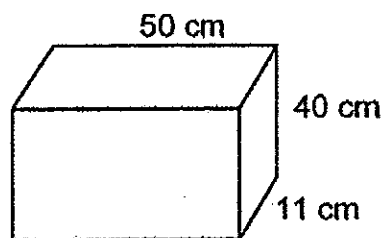
1. In 120.458, which digit is in the hundredths place?

- (1) 1
- (2) 5
- (3) 8
- (4) 4

2. Express 0.55 as a fraction in its simplest form.

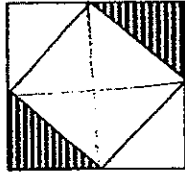
- (1)  $\frac{1}{2}$
- (2)  $\frac{11}{20}$
- (3)  $\frac{11}{200}$
- (4)  $\frac{55}{100}$

3. Find the volume of the cuboid below.



- (1)  $2\,000\text{ cm}^3$
- (2)  $2\,200\text{ cm}^3$
- (3)  $20\,000\text{ cm}^3$
- (4)  $22\,000\text{ cm}^3$

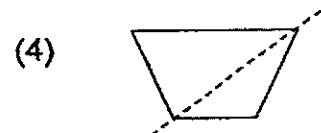
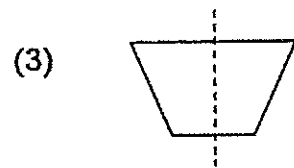
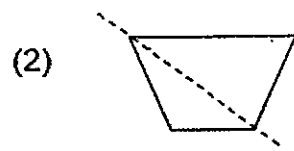
4. The figure below is made up of 2 squares.



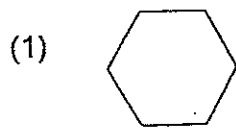
What fraction of the figure is shaded?

- (1)  $\frac{2}{3}$
- (2)  $\frac{1}{2}$
- (3)  $\frac{1}{3}$
- (4)  $\frac{1}{4}$

5. Which one of the figures below has a line of symmetry?



6. Which one of the shapes below can be tessellated?



7. The product of 500 and 800 is \_\_\_\_\_

- (1) 4 000
- (2) 40 000
- (3) 400 000
- (4) 4 000 000

8. 10kg of sugar is packed equally into 6 similar packets.  
What is the mass of each packet?

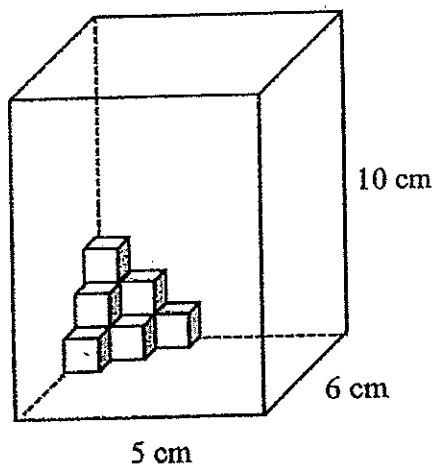
- (1)  $1\frac{1}{2}$  kg
- (2)  $1\frac{2}{3}$  kg
- (3)  $1\frac{3}{4}$  kg
- (4)  $1\frac{4}{5}$  kg

9. The ratio of the number of apples to the number of oranges in a basket was 3 : 4. There were 8 more oranges than apples. How many fruits were there in the basket?
- (1) 14
  - (2) 24
  - (3) 32
  - (4) 56
10. Which of the following when rounded off to the nearest thousands does not give 69 000?
- (1) 69 499
  - (2) 68 900
  - (3) 68 500
  - (4) 68 499
11. There were 18 red marbles and 14 blue marbles in a box.  $\frac{3}{4}$  of the marbles were sold. How many marbles were left?
- (1) 8
  - (2) 24
  - (3) 32
  - (4) 4
12. 600 thousands + 70 hundreds + 50 tens + 3 ones is the same as \_\_\_\_\_.
- (1) 600 753
  - (2) 607 503
  - (3) 670 053
  - (4) 675 003

13. Rayhana bought some beads. At first she packed them into bags of 6 and there were 3 beads left over. She then packed them into bags of 8 and there were also 3 beads left over. What was the smallest number of beads that she could have bought?

- (1) 21
- (2) 24
- (3) 27
- (4) 30

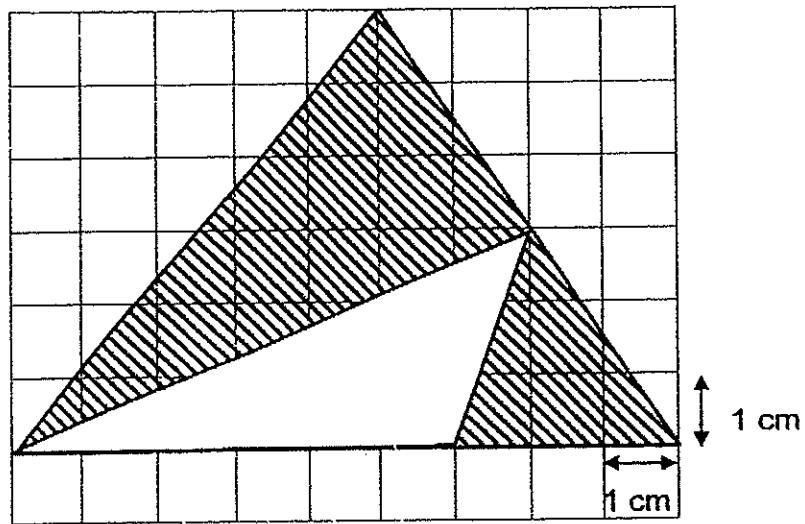
14. The glass tank below contains some 1-cm cubes. What is the maximum number of cubes that can still be added into the tank?



- (1) 290
- (2) 291
- (3) 294
- (4) 300



15. Calculate the total shaded area in the figure below.



- (1)  $10.5 \text{ cm}^2$
- (2)  $13.5 \text{ cm}^2$
- (3)  $16.5 \text{ cm}^2$
- (4)  $18.0 \text{ cm}^2$

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.

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16. Arrange the following numbers in descending order.

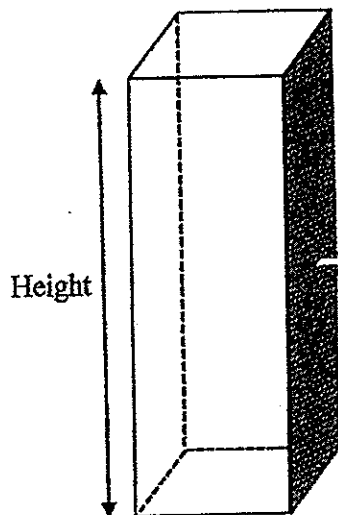
7 894 600 , 7 896 400 , 798 640 , 7 984 600

Ans: \_\_\_\_\_

17.  $0.452 =$  \_\_\_\_\_ thousandths.

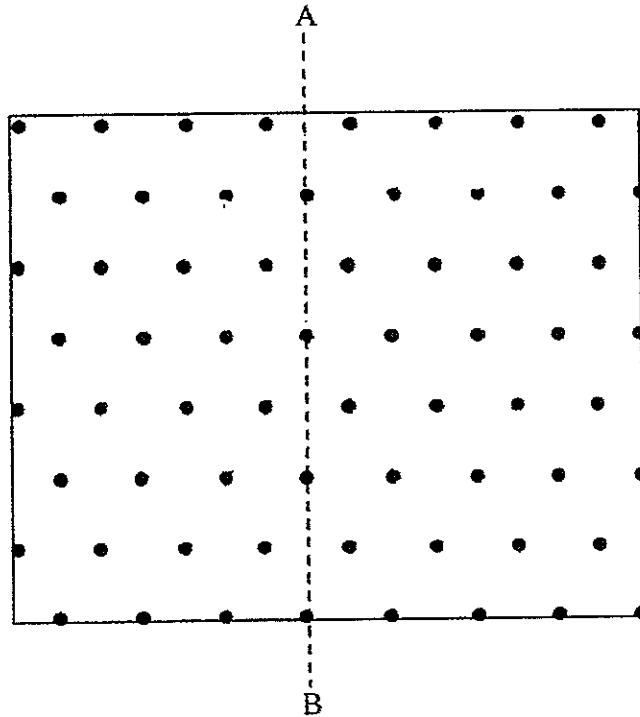
Ans: \_\_\_\_\_

18. The cuboid below has a square base area of  $16 \text{ m}^2$ .  
The area of the shaded face is  $48 \text{ m}^2$ .  
Find the height of the cuboid.

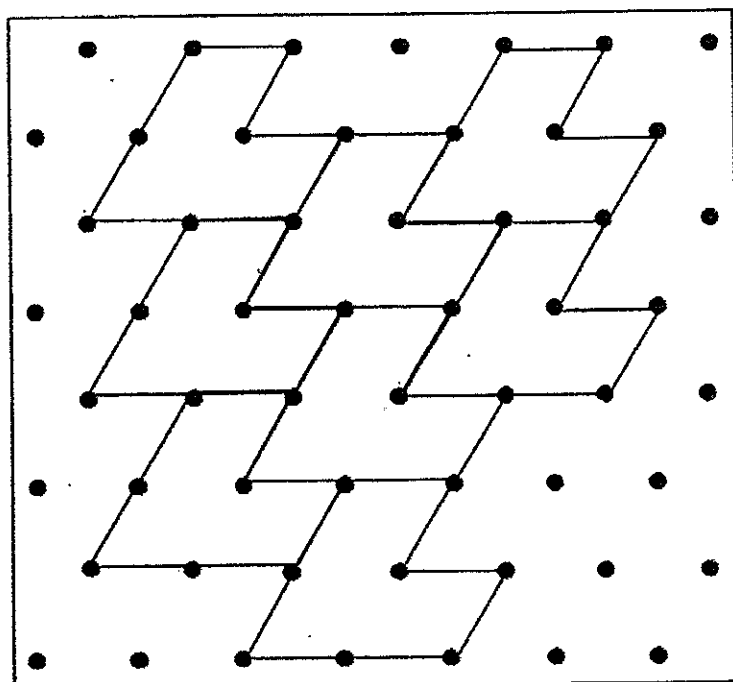


Ans: \_\_\_\_\_ m

19. Use a ruler to complete the figure below so that the dotted line AB is the line of symmetry.



20. The pattern in the box below shows a part of a tessellation. Extend the tessellation by drawing 1 more unit shape within the box.



21. Find the value of  $1\frac{2}{3} - \frac{5}{6}$

Ans: \_\_\_\_\_

22. Express  $6\frac{7}{20}$  as a decimal.

Ans: \_\_\_\_\_

23. What is the value of  $1.125 \times 3$ ?

Ans: \_\_\_\_\_

24. Calculate  $32 \div 100 - 0.01$   
Round off your answer to 1 decimal place.

Ans: \_\_\_\_\_

25. Sherry has \$1 in 20-cent coins and \$5 in 50-cent coins.  
Find the ratio of the number of 20-cent coins to the number of 50-cent coins.

Ans: \_\_\_\_\_

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. Miss Luo wanted to place 48 potted plants around a square garden. After putting 1 potted plant in each corner, she placed the rest of the potted plants equally along the 4 sides. Find the number of potted plants on each side.

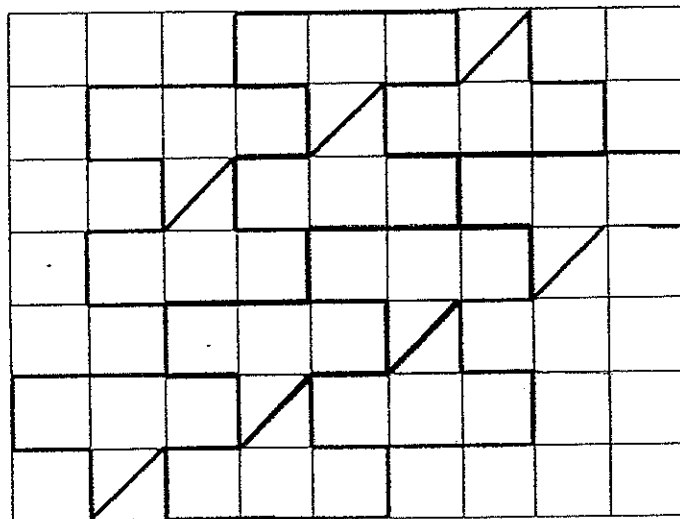
Ans: \_\_\_\_\_

27.  $(150 + 50) - 40 + 60 \div 2 \times 5 =$  \_\_\_\_\_

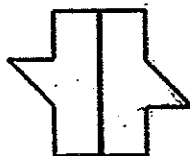
Ans: \_\_\_\_\_

28. The shape  can be tessellated.

- (a) The pattern in the box below shows part of a tessellation. Extend the tessellation by drawing one more unit shape in the space provided within the box. [1]



- (b) 2 such shapes are joined to form a new shape shown below.



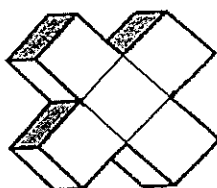
Can this new shape tessellate? Yes or No?

Ans : \_\_\_\_\_ [1]

29. Jane wanted to fill an empty water tank measuring 70 cm long, 30 cm wide and 20 cm high with water using a bucket. Given that the capacity of the bucket was 7 litres, how many buckets of water were needed to fill the tank completely?

Ans: \_\_\_\_\_

30. The solid below is made up of identical cubes. The total surface area of the solid is  $2200 \text{ cm}^2$ . Find the volume of the solid.



Ans: \_\_\_\_\_  $\text{cm}^3$

**End of Paper**

**☺ Please check your work carefully ☺**

Setters : Mr Ho Kai Huat  
Mr Ronald Lee  
Mrs Jacqueline Seto





**RAFFLES GIRLS' PRIMARY SCHOOL  
SEMESTRAL ASSESSMENT 1  
MATHEMATICS (PAPER 2)  
PRIMARY 5**

Name: \_\_\_\_\_ ( )

Form class: P5 \_\_\_\_\_ Banded Math Class: P5 \_\_\_\_\_

Date: 8<sup>th</sup> May 2014

Duration: 1 h 40 min

<b>Your Paper 2 Score (Out of 60 marks)</b>	
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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.

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. 45 pupils took part in a quiz.  $\frac{1}{3}$  of the pupils were boys.

How many girls took part in the quiz?

Ans: \_\_\_\_\_ [2]

2. Write down all the common factors of 16 and 24.

Ans: \_\_\_\_\_ [2]

3. Arrange the ~~fractions~~  
numbers below in ascending order.

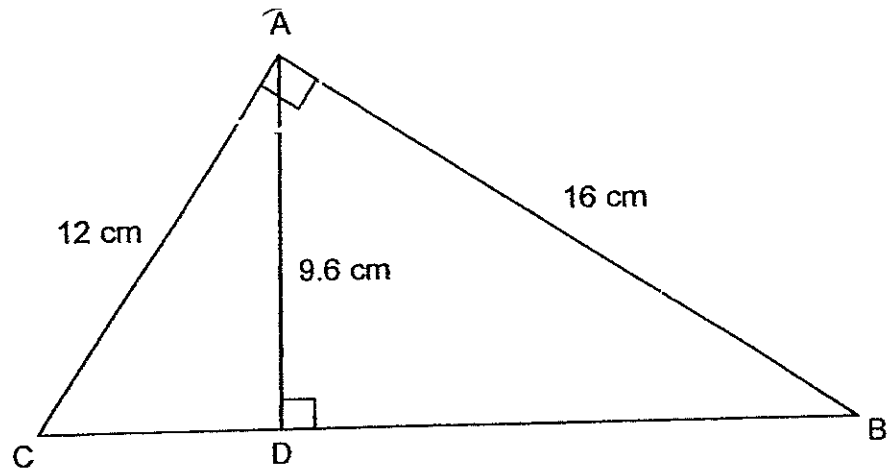
$$3\frac{3}{4}, 3\frac{7}{11}, 3.157$$

Ans: \_\_\_\_\_ [2]

4. The ratio of Andy's age to his father's age is 2 : 5.  
Their total age now is 84 years old. How old will Andy be in 10 years' time?

Ans: \_\_\_\_\_ years old [2]

5. Calculate the area of the triangle ABC.



Ans: \_\_\_\_\_ cm<sup>2</sup> [2]

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. Kimberly planned to finish reading a book in 16 days by reading 35 pages a day.

In the end, she took 4 days longer to finish reading the book.

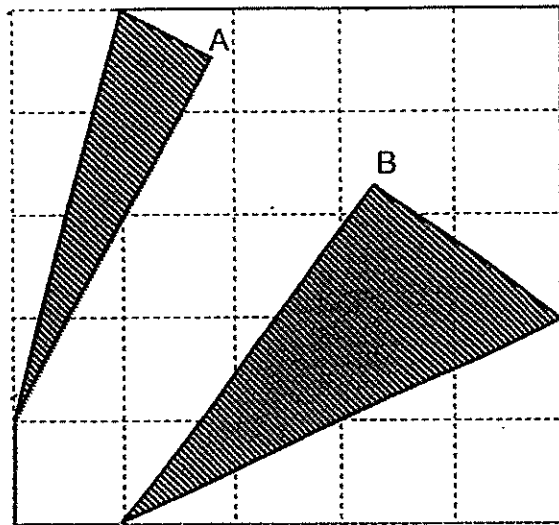
How many pages did she read per day?

Ans : \_\_\_\_\_ [3]

7. A box contained some blue and red marbles in the ratio 3 : 8. When 144 blue marbles were added in, the ratio became 3 : 4. Find the number of marbles in the box at first.

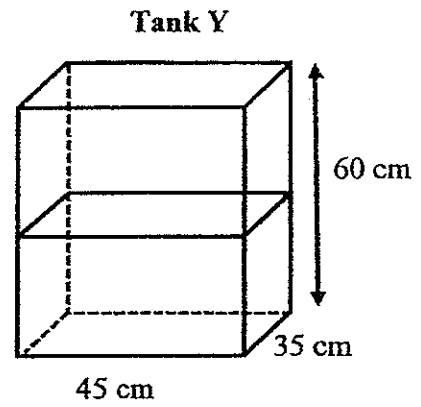
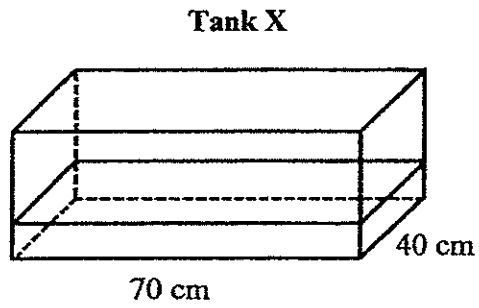
Ans: \_\_\_\_\_ [3]

8. The figure below shows a square piece of paper of length 15 cm, folded at opposite corners A and B. What is the total area of the shaded parts of the figure?



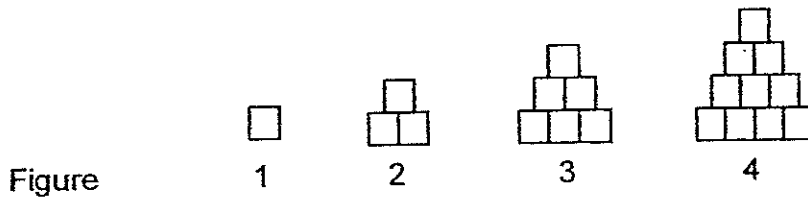
Ans: \_\_\_\_\_ [3]

9. At first, Tank X was  $\frac{1}{4}$  filled with water while Tank Y was  $\frac{1}{2}$  filled with water. Then all the water from Tank X was poured into Tank Y and Tank Y became  $\frac{5}{6}$  full. What was the height of Tank X?



Ans: \_\_\_\_\_ [4]

10. Chloe used unit square of side 4cm to build some figures.  
The first four figures are shown below.



The table below shows the number of squares used for each figure and the height of each figure.

Figure	Number of squares used	Perimeter of the figure ( cm )
1	1	4
2	3	8
3	6	12
4	10	16
5	[1]	[1]

(a) Complete the table for Figure 5.

(b) How many squares are needed to build Figure 90?

Ans : (b) \_\_\_\_\_ [2]



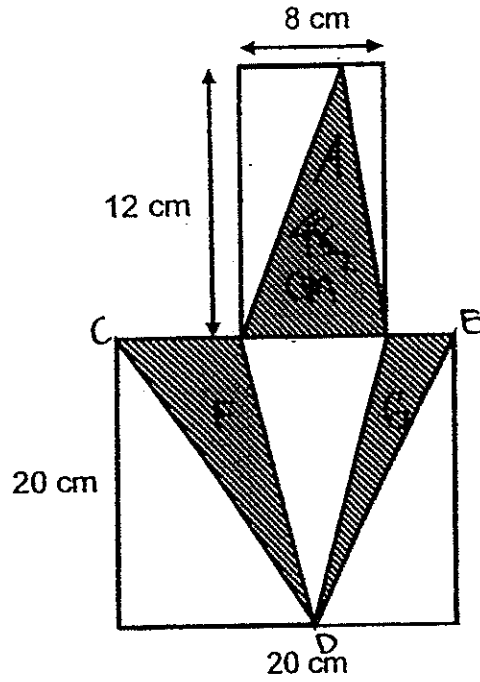
11. A tank with a square base of side 35 cm contained 12.6 litres of water at first. After another 7 litres of water was added, the tank was  $\frac{2}{3}$  filled. Find the height of the tank.

Ans: \_\_\_\_\_ [3]

12. Andy had 650 stickers. Bernice had  $\frac{3}{5}$  as many stickers as Andy. Cindy had 150 more stickers than Bernice. How many stickers did they have altogether?

Ans: \_\_\_\_\_ [3]

13. The figure below is made up of a rectangle and a square. Find the area of the shaded parts.



Ans: \_\_\_\_\_ [4]

14. Mrs Chan went shopping with some money.

In shop A, she spent half of her money plus \$1 on clothing.

In shop B, she spent half of the remaining money plus \$2 on a pair of shoes.

In shop C, she spent  $\frac{1}{3}$  of the remaining plus \$3 on a bag and had \$49 left

How much money had Mrs Chan at first?

Ans: \_\_\_\_\_ [5]

15. In a factory, Machine A produced a box every 3 minutes and Machine B produced a box every 4 minutes.
- (a) If both machines started at the same time, how long did it take Machine A to produce 20 more boxes than Machine B?
- (b) How many boxes were produced by both machines altogether in that time?

Ans: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [2]

16. Alan, Ben and Carl each had some marbles. Ben had 1168 fewer marbles than Alan. After Alan and Ben each gave 355 marbles to Carl, Alan had 5 times as many marbles as Ben.

(a) How many marbles did Alan have at first?

(b) If Carl had 500 more marbles than Ben in the end, how many marbles did Carl have at first?

Ans : (a) \_\_\_\_\_ [3]

(b) \_\_\_\_\_ [2]

17. Joyce had some apples. She used  $\frac{1}{5}$  of the apples to make apple pie and  $\frac{1}{3}$  of the remaining apples for apple juice. She then bought another 242 apples and found that she had twice as many apples as she had at first. How many apples did she have at first?

Ans: \_\_\_\_\_ [4]

18. Lily had  $\frac{2}{3}$  as much money as Andrew. After each of them spent \$250, the amount of money Lily had left became  $\frac{3}{10}$  of the total amount of money both of them had left.

- (a) How much did Andrew have at first?
- (b) How much money must Andrew give to Lily so that they have the same amount of money in the end?

Ans: (a) \_\_\_\_\_ [3]

(b) \_\_\_\_\_ [2]

**End of Paper**  
**Please check your work carefully ☺**

Setters: Mr. Ho Kai Huat  
Mr. Ronald Lee  
Mrs Jacqueline Seto





**EXAM PAPER 2014**

**LEVEL : PRIMARY 5**

**SCHOOL : RAFFLES**

**SUBJECT : MATHS**

**TERM : SA1**

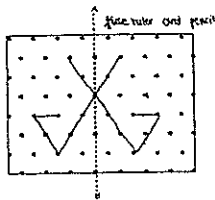
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
2	2	4	4	3	1	3	2	4	4	1	2	3	1	4

Q16 7984 600, 7896 400, 7894 600, 798 640

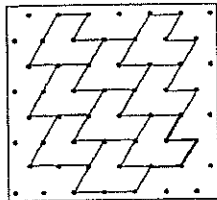
Q17 452

Q18 12m

Q19



Q20



Q21  $\frac{5}{6}$

Q22 6.35

Q23 3.375

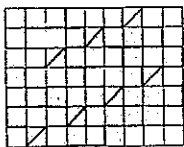
Q24 0.3

Q25 1:2

Q26 13

Q27 310

Q28(a)



(b) No

Q29 6

Q30  $5000 \text{ cm}^3$



## Paper 2

Q1  $\frac{2}{3} \times 45 = 30$

**30 girls took part in the quiz.**

Q2 Factors of 16: 1, 2, 4, 8, 16  
Factors of 24: 1, 2, 3, 4, 6, 8, 12, 24

**The common factors are 1, 2, 4, 8**

Q3 **3.157,  $3\frac{7}{11}$ ,  $3\frac{3}{4}$**

Q4 
$$\begin{array}{l} A : F \\ 2 : 5 \end{array}$$

2 units + 5 units = 7 units

7 units  $\rightarrow$  84

2 units  $\rightarrow$  24

24 + 10 = 34

**Andy will be 34 years old.**

Q5  $\frac{1}{2} \times 12 \times 16 = 96$

**The area is 96 cm<sup>2</sup>.**

Q6  $16 \times 350 = 560$  (total pages)  
 $16 + 4 = 20$   
 $560 \div 20 = 28$

**She read 28 pages per day.**

Q7 6 units – 3 units = 3 units  
3 units  $\rightarrow$  144  
1 unit  $\rightarrow$  48  
 $48 \times 3 + 48 \times 5 = 528$

**There are 528 marbles.**

Q8  $15 \div 5 = 3$   
 $3 \times 4 = 12$   
 $\frac{1}{2} \times 3 \times 12 = 18$   
 $3 \times 2 = 6$   
 $\frac{1}{2} \times 6 \times 12 = 36$   
 $18 + 36 = 54$

**The total area is 54cm<sup>2</sup>.**



- Q9 New height of water in tank Y  $\rightarrow \frac{5}{6} \times 60 = 50$   
 Old height of water in tank Y  $\rightarrow \frac{1}{2} \times 60 = 30$

Difference in height due to water from X  $\rightarrow 50 - 30 = 20$

Volume of water in X  $\rightarrow 45 \times 35 \times 20 = 31500$

Height of water in tank X  $\rightarrow 31500 \div (70 \times 40) = 11.25$

Height of tank X  $\rightarrow 11.25 \times 4 = 45$

**The height is 45cm.**

- Q10 (a)

No of squares	Fig 1	2	3	4	5	6	7	8
	1	1+2	1+2+3	1+2+3+4	1+2+3+4+5	1+2+3+4+5+6	1+2+3+4+5+6+7	1+2+3+4+5+6+7+8
Peri $\rightarrow$	$\frac{1}{4}$	$\frac{2}{1 \times 2}$	$\frac{3}{4 \times 3}$	$\frac{4}{4 \times 4}$	$\frac{5}{4 \times 5}$			
				$10+5=15$				
				$4 \times 5 = 20$				

- (b)  $1+2+3+4+5+6+\dots+90$   
 $(90 \div 2) \times 91 = 4095$

4095 squares are needed to build Figure 90.

- Q11  $12.6 + 7 = 19.6$   
 $19.6L = 19600\text{cm}^3$   
 Base area =  $35 \times 35$   
 Height of water  $\rightarrow 19600 \div 35 \div 35 = 16$   
 Height of Tank  $\rightarrow 16 \div 2 \times 3 = 24$

**The height of tank is 24cm.**

- Q12 Bernice  $\rightarrow \frac{3}{5} \times 650 = 390$   
 Cindy  $\rightarrow 390 + 150 = 540$   
 $390 + 540 + 650 = 1580$   
 5 units  $\rightarrow 650$   
 1 unit  $\rightarrow 130$   
 $130 \times 11 = 1430$   
 $1430 + 150 = 1580$

**They had 1580 stickers altogether.**

- Q13  $\frac{1}{2} \times 8 \times 12 = 48$   
 $20 - 8 = 12$   
 $\frac{1}{2} \times 12 \times 20 = 120$   
 $120 + 48 = 168$

**The area of shaded parts is  $168\text{cm}^2$ .**



Q14

$$2 \text{ units} \rightarrow 49 + 3 = 52$$

$$1 \text{ unit} \rightarrow 26$$

$$3 \text{ units} \rightarrow 78$$

$$78 + 2 = 80$$

$$80 \times 2 = 160$$

$$160 + 1 = 161$$

$$161 \times 2 = 322$$

**Mrs Chan had \$322 at first.**

Q15(a) 1 group of 12min

$$A \rightarrow 12 \div 3 = 4$$

$$B \rightarrow 12 \div 4 = 3$$

Difference  $\rightarrow 4 - 3 = 1$  (every 12 min Machine A will produce 1 box more than B)

$$12 \times 20 = 240$$

$$240 \text{ min} = 4 \text{ hours}$$

**Machines A needs 4 hours.**

(b) In 12 min,  $A + B \rightarrow 3 + 4 = 7$

In 240 min,  $A \rightarrow 240 \div 3 = 80$

$$B \rightarrow 240 \div 4 = 60$$

$$80 + 60 = 140$$

**Both machines will produce 140 boxes.**

Q16(a) 4 units  $\rightarrow 1168$

$$1 \text{ unit} \rightarrow 292$$

$$5 \text{ units} \rightarrow 1460$$

$$1460 + 355 = 1815$$

**Alan had 1815 marbles at first.**

(b) Ben (at the end)  $\rightarrow 292$

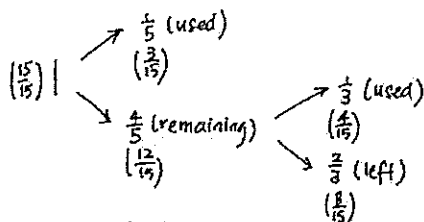
Carl (at the end)  $\rightarrow 292 + 500 = 792$

$$355 \times 2 = 710$$

$$792 - 710 = 82$$

**Carl had 82 marbles at first.**

Q17



$$\frac{1}{3} \times \frac{4}{5} = \frac{4}{15}$$

8 units + 242  $\rightarrow$  30 units (twice as many)

$$22 \text{ units} \rightarrow 242$$

$$1 \text{ unit} \rightarrow 11$$

$$15 \text{ units} \rightarrow 165$$





Q18(a)            L : A : Diff  
 (Before)        2 : 3 : 1  
 (spent)        \$250 \$250  
 (after)         3 : 7 : 4  
                   8 : 12 : 4

8 units – 3 units → 5 units  
 5 units → 250  
 1 unit → 50  
 12 units → 600

**Andrew had \$600 at first.**

(b) 10 units ÷ 2 = 5 units  
 5 units – 3 units → 2 units  
 2 units → 50 × 2 = 100

**Andrew must give \$100 to Lilly.**





**Rosyth School**  
**First Semestral Assessment 2014**  
**Primary 5 Mathematics**

Name: \_\_\_\_\_ Register No. \_\_\_\_\_

Class: Pr 5 - \_\_\_\_\_

Date: 12<sup>th</sup> May 2014 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.

(20 marks)

---

1. Seven million, twenty thousand and twenty written in numeral is \_\_\_\_\_.

(1) 7 020 020

(2) 7 020 000

(3) 7 200 020

(4) 7 220 000

2. Which one of the following fractions has the biggest value?

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

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

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

(4)  $\frac{6}{11}$

3. Express 50.g as a fraction of 1.5 kg.

(1)  $\frac{3}{10}$

(2)  $\frac{1}{30}$

(3)  $\frac{3}{100}$

(4)  $\frac{1}{300}$

4. Round off 189 550 to the nearest ten thousands.

- (1) 180 000
- (2) 189 000
- (3) 190 000
- (4) 200 000

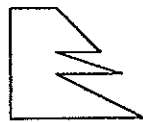
Which one of the following is a common factor of 12, 16 and 20?

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

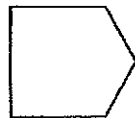
6. Melvin bought a television set at a sale. He gave the cashier \$1 000 and received \$245.80 as change. How much did the television set cost?

- (1) \$ 754.20
- (2) \$ 765.20
- (3) \$ 865.20
- (4) \$ 1 245.80

7. Which of the following shapes can be tessellated?



A



B



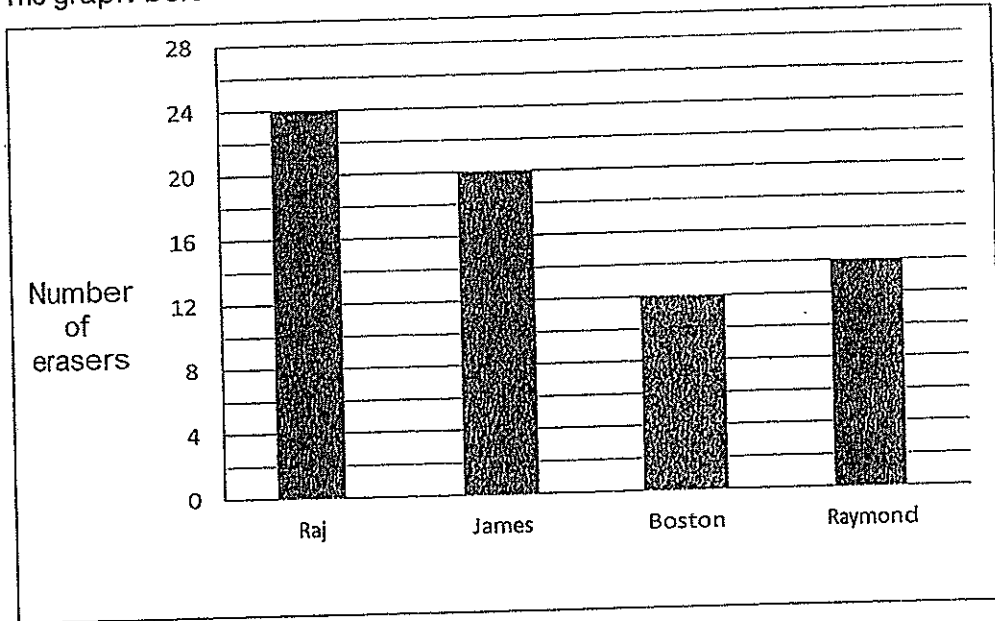
C



D

- (1) A and B
- (2) B and C
- (3) B and D
- (4) D only

8. The graph below shows the number of erasers that 4 classmates have.



How many erasers must James give away so that he will have the same number of erasers as Raymond?

- (1) 6
  - (2) 7
  - (3) 3
  - (4) 4
9. There are 8 red, 11 blue and 7 yellow stickers. Find the ratio of the number of red stickers to the total number of stickers.
- (1) 4 : 9
  - (2) 4 : 13
  - (3) 11 : 15
  - (4) 19 : 7

10. The ratio of Shirley's savings to Marie's savings is 5 : 3. If Shirley's savings is \$30, what is their total savings?

- (1) \$18
- (2) \$48
- (3) \$50
- (4) \$120

11. The table below shows the number of completed hours of community service done by students in a class.

Number of students in class	6	12	11	5	6
Number of completed hours per student	1	0	2	1	4

Find the total number of hours of community service completed by the class.

- (1) 28 h
- (2) 40 h
- (3) 57 h
- (4) 126 h

12. Mrs Tan used  $\frac{4}{5}$  of a packet of sugar to bake some cakes in 4 days. She used the same amount of sugar each day. How many packets of sugar did she use in 4 weeks?
- (1)  $\frac{1}{5}$   
(2)  $\frac{4}{5}$   
(3)  $3\frac{1}{5}$   
(4)  $5\frac{3}{5}$
13. Samad received \$360 for this month's allowance. He saved  $\frac{2}{5}$  of it and spent  $\frac{1}{4}$  of the remaining money on food. The rest were given to his parents. How much money did Samad give his parents?
- (1) \$54  
(2) \$144  
(3) \$162  
(4) \$210
14. Lishan and Aminah bought some cookies in the ratio of 3 : 4. Aminah gave 9 cookies to Lishan. Then the ratio of the number of cookies Lishan had to that of Aminah was 1 : 1. How many cookies did they have at first?
- (1) 54  
(2) 63  
(3) 72  
(4) 126



15. The ratio of the length to the breadth of a rectangular cardboard is 5 : 2.  
Find the area of the rectangular board if its breadth is 6 cm shorter than its length.

- (1)  $14 \text{ cm}^2$
- (2)  $28 \text{ cm}^2$
- (3)  $40 \text{ cm}^2$
- (4)  $90 \text{ cm}^2$



**Rosyth School**  
**First Semestral Assessment 2014**  
**Primary 5 Mathematics**

Name: \_\_\_\_\_ Register No. \_\_\_\_\_

Class: Pr 5 - \_\_\_\_\_

Date: 12<sup>th</sup> May 2014 Parent's Signature: \_\_\_\_\_

Total Time for Booklets A and B : 50 minutes

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**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 7 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)

---

16. Find the value of  $90 \times 0.8$ .

Ans: \_\_\_\_\_

17. Find the value of  $200 + (28 - 8) \div 5 \times 2$ .

Ans: \_\_\_\_\_

18. The ratio of the number of apples to the number of mangoes is 5 : 11.  
What fraction of the fruits are mangoes?

Ans: \_\_\_\_\_

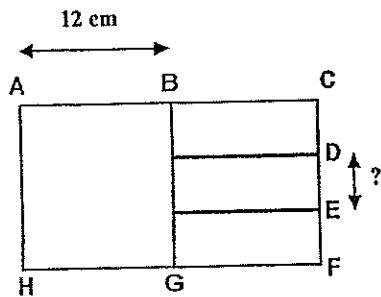
19.  $\boxed{A} : 72 : 64 = 7 : 9 : \boxed{B}$

What are the values of A and B?

Ans: A: \_\_\_\_\_

B: \_\_\_\_\_

20. The figure below is made up of a square ABGH and 3 similar rectangles. The length of AB is 12 cm, find the length of DE.



Ans: \_\_\_\_\_ cm

21. Container A weighs 45 kg. Container B weighs 19 kg more than Container A. What is the average mass of the two containers?

Ans: \_\_\_\_\_ kg

22. Damien gave away 72 marbles and had  $\frac{7}{9}$  of his marbles left. How many marbles did he have at first?

Ans: \_\_\_\_\_

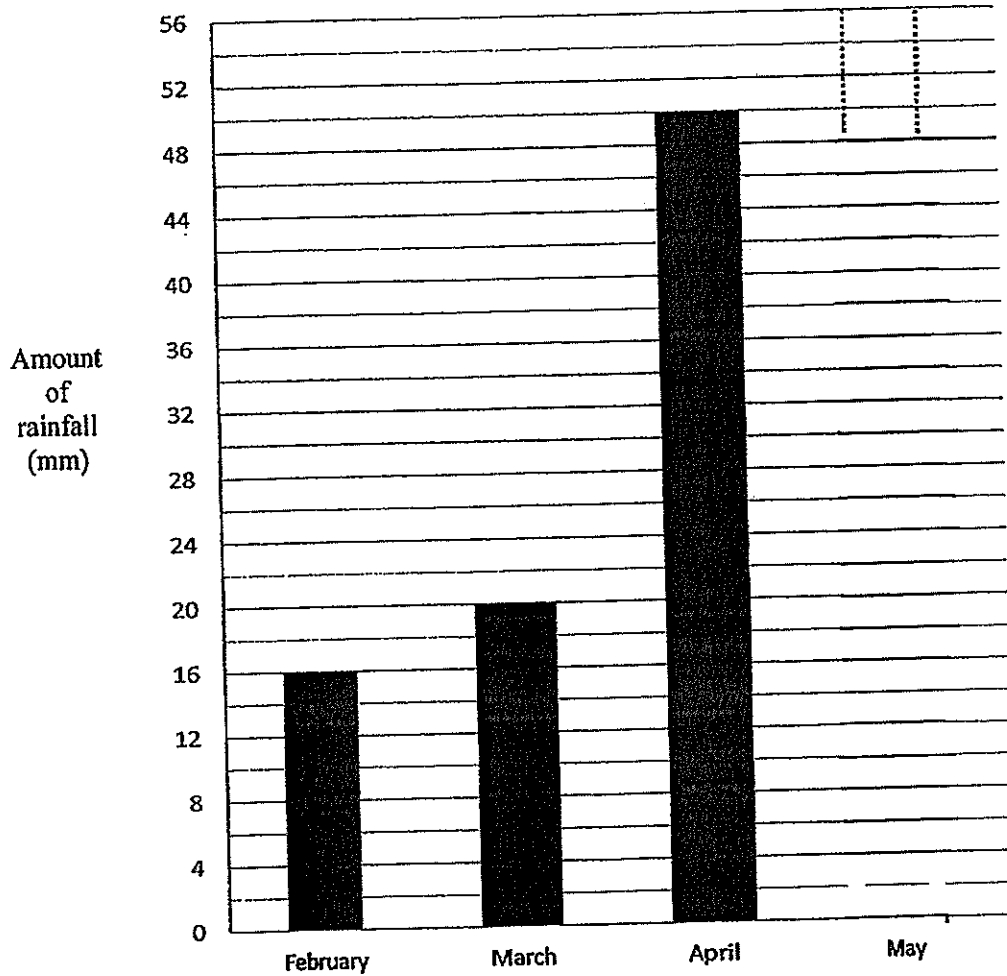
23. Jane bought 20 packets of sugar. Each packet was  $1\frac{1}{4}$  kg. How much sugar did she buy?

Ans: \_\_\_\_\_ kg

24. Melvin marked points A, B, C and D on a straight line. The ratio of AB to AC is 3 : 4. The ratio of AC to AD is 2 : 3. What is the ratio of AB to AD?

Ans: \_\_\_\_\_

25. The bar graph shows the amount of rainfall over the last 4 months in Singapore. The bar that shows the amount of rainfall in May has not been drawn.

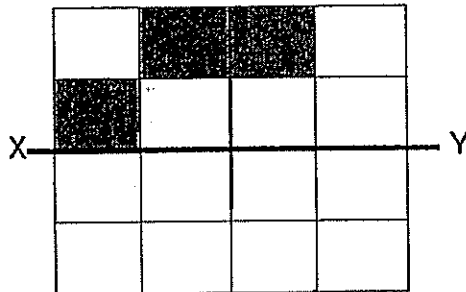


The bar representing the amount of rainfall in May was thrice that of February. Draw the bar representing the amount of rainfall in May in the bar graph above. You are not required to shade the bar.

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. In the figure below, XY is the line of symmetry. Complete the figure.



27. Tina had some fruits. She gave  $\frac{4}{9}$  of her fruits to her neighbour. She gave the rest of the fruits to 10 classmates. What fraction of the fruits did each of her classmates get? Leave your answer in the simplest form.

Ans: \_\_\_\_\_

28. John had  $\frac{1}{3}$  as many toy cars as Tom. Ben had 13 more toy cars than Tom. John gave  $\frac{1}{2}$  of his toy cars to Ben and had 5 toy cars left. How many toy cars did Ben have now?

Ans: \_\_\_\_\_

29. There were some chairs in the hall. Aini arranged all the chairs to form 24 rows. Each row had the same number of chairs except the last row which had only 4 chairs. Aini sat on a chair in one of the rows. There were 3 chairs to her right and 5 chairs to her left. How many chairs were there in the hall altogether?

Ans: \_\_\_\_\_

30. Bobby had \$500 more than Kumar. After Kumar gave Bobby \$30, Kumar had  $\frac{1}{3}$  of what Bobby had. How much did Kumar have at first?

Ans: \$\_\_\_\_\_

**End of Booklet B**





**Rosyth School**  
**First Semestral Assessment 2014**  
**Primary 5 Mathematics**

Name: \_\_\_\_\_ Register No. \_\_\_\_\_

Class: Pr 5 - \_\_\_\_\_

Date: 12<sup>th</sup> May 2014

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 14 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 space

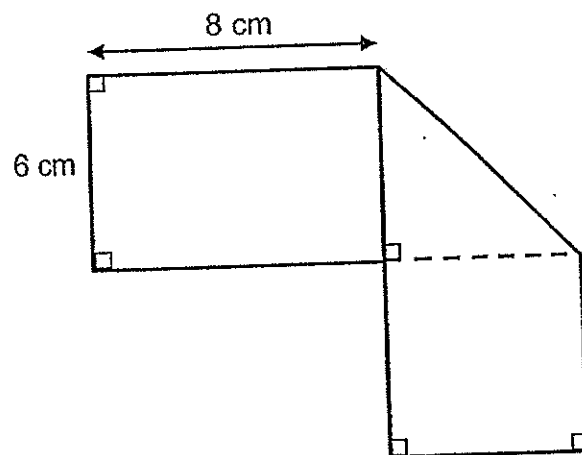
1. Four pupils scored the following marks for their Math Test.

Malcom	67
Tai Seng	87
Siti	92
Adam	70

What was the average mark of the 4 pupils?

Ans: \_\_\_\_\_

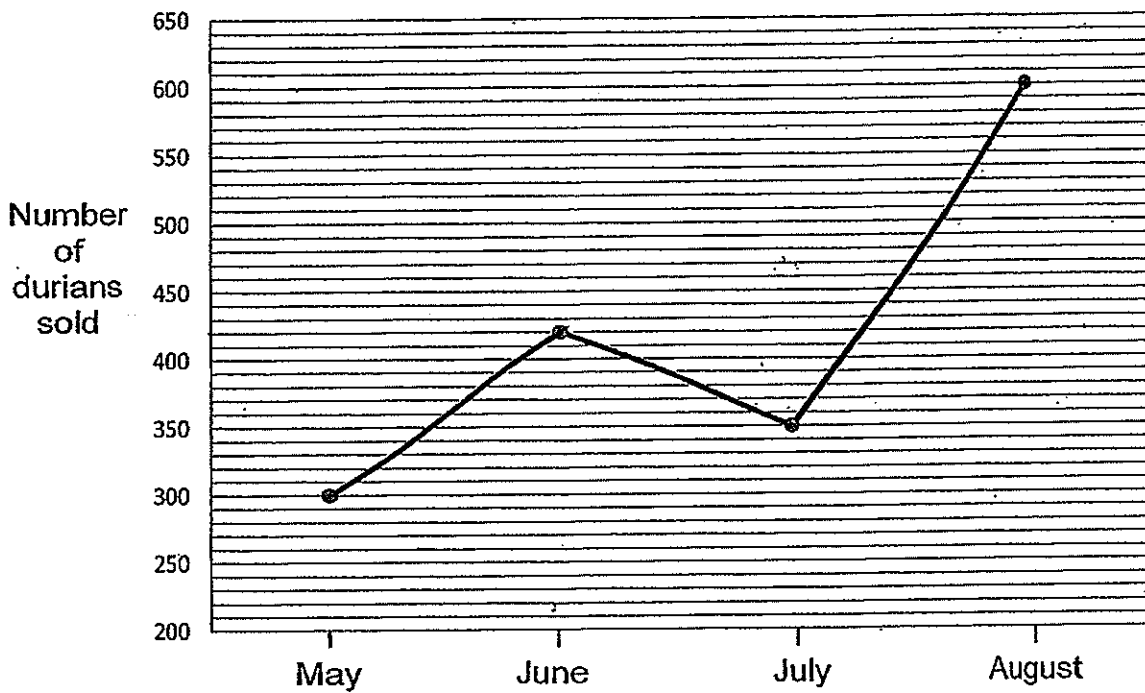
2. A rectangular piece of paper is folded to form a rectangle, triangle and square as shown below. Find the length of the rectangular piece of paper before it was folded.  
(Figure is not drawn to scale)



Ans: \_\_\_\_\_ cm

3. The line graph below shows the number of durians that Mr Ahmad sold from May to August.

Do not write  
in this space



Mr Ahmad sold each durian for \$6.50. What was the total amount of money he earned from May to August?

Ans: \$ \_\_\_\_\_

4. Jun Xiang decorates his bedroom wall with green and yellow stickers.  
For every 11 green stickers, there will be 3 yellow stickers.  
If there are 96 yellow stickers, what is the total number of stickers used to decorate the bedroom wall?

Do not write  
in this space

Ans: \_\_\_\_\_

---

5. An empty container has a mass of 10 kg. It has a mass of 61.36 kg when  $\frac{1}{2}$  filled with water. What is the mass of the container when it is  $\frac{1}{3}$  full of water?

Ans: \_\_\_\_\_ kg

---

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 average height of Li Shan, Shanti and Aminah is 1m 15 cm. Li Shan is 10 cm taller than Shanti and Aminah is 8 cm taller than Shanti. What is Shanti's height?

Ans: \_\_\_\_\_ [3m]

- 
7. In the class library,  $\frac{3}{5}$  of the books are fiction books.  $\frac{2}{3}$  of the remaining books are non-fiction books. The rest are magazines. There are 10 fewer magazines than non-fiction books in the class library. How many fiction books are there altogether?

Ans: \_\_\_\_\_ [3m]

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in this space

8. There were  $\frac{2}{3}$  as many apples as oranges in a fruit stall. There were  $\frac{2}{5}$  as many oranges as pears in the same fruit stall. If there were 534 oranges in the fruit stall, find the total number of fruits in the fruit stall.

Ans: \_\_\_\_\_ [3m]

---

9. Jolene bought some apples at an average price of \$1.20 each. She bought another 2 apples at \$2.95 each and the average price became \$1.45. How many apples did she buy altogether?

Ans: \_\_\_\_\_ [3m]

---

Do not write  
in this space

10. Mei Ting wanted to buy some files which were of the same price. If she ~~buy~~ 18 such files, she would have \$18 left over. If she ~~buy~~ 22 such files, she would be short of \$16. How much money did Mei Ting have? <sup>bought</sup>

Ans: \_\_\_\_\_ [3m]

---

11. Hassan had \$450.50 and Shi Min had \$1 060.90. Both of them spent the same amount of money on a box of chocolate. In the end, the ratio of the amount of money Shi Min had to the amount of money Hassan had was 12 : 5. How much did each of them spend on the box of chocolate?

Ans: \_\_\_\_\_ [4m]

---

12. The total cost of 5 shirts and 10 blouses is \$745.  
The total cost of 2 shirts and 3 blouses is \$256.  
Find the total cost of 2 shirts and 5 blouses.

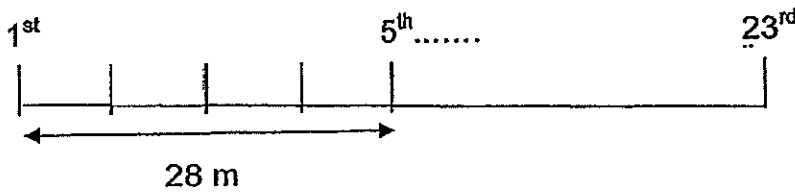
Do not write  
in this space

Ans: \_\_\_\_\_ [4m]



13. Mina put 23 potted plants in a row from one end to the other end of the corridor. They were placed at an equal distance from one another. The distance between the first and the fifth potted plant was 28 m. Later, Mina decided to remove 9 potted plants. As a result, the remaining potted plants were rearranged from one end to the other end of the corridor at a new equal spacing.
- a) Find the distance between the first and the last potted plant.
- b) Find the new distance between the 2 potted plants.
- (Correct the answer to 2 decimal places)

Do not write in this space



Ans: a) \_\_\_\_\_ [2m]

b) \_\_\_\_\_ [2m]

Do not write  
in this space

14. Ee Ling baked more vanilla cupcakes than chocolate cupcakes.  
She also baked twice as many strawberry cupcakes as chocolate cupcakes.  
After she baked another 72 more chocolate cupcakes, sold 28 vanilla cupcakes  
and half of the strawberry cupcakes, she now had 17 more chocolate cupcakes  
than vanilla cupcakes.  
In the end, there were a total of 256 cupcakes.  
How many vanilla, chocolate and strawberry cupcakes did she bake at first?

Ans: Vanilla: \_\_\_\_\_ }  
Chocolate: \_\_\_\_\_ } [4m]  
Strawberry: \_\_\_\_\_ }

Do not write  
in this space

15. David spent  $\frac{5}{12}$  of his money on some books and Mary spent  $\frac{3}{4}$  of her money on some files.

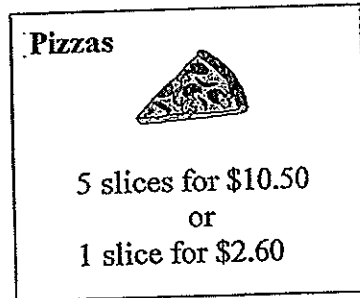
After paying for their purchases, they had an equal amount of money left.

If David had \$52.50 left, what was the total amount of money David and Mary had at first?

Ans: \_\_\_\_\_ [4m]

16. Study the diagram below.

Do not write  
in this space



Xiao Ming has \$50.

- (a) What is the maximum number of slices of pizzas that he can purchase?
- (b) How much will Xiao Ming have after paying for the pizzas?

Ans: (a) \_\_\_\_\_ [3m]

(b) \_\_\_\_\_ [2m]

17. There are different types of flowers in a vase.

$\frac{3}{10}$  of the flowers are roses,  $\frac{2}{5}$  of them are orchids and the rest are sunflowers and lilies.

The number of lilies is half the number of sunflowers.

There are 18 more orchids than sunflowers.

- a) What fraction of the flowers was sunflowers? (Leave your answer in the simplest form)
- b) Find the total number of flowers in the vase.

Do not write  
in this space

Ans: (a) \_\_\_\_\_ [2m]

(b) \_\_\_\_\_ [3m]

Do not write  
in this space

18. Aminah, Bala, Candy, David and Erin each donated some money to charity.

The donation made by Bala was  $\frac{1}{4}$  as much as the total amount donated by all of them.

The ratio of the amount of money donated by Candy to the rest of them was 3 : 17.

David and Erin donated  $\frac{3}{7}$  as much as the total amount donated by the rest of them.

Aminah donated \$1 080 more than Candy.

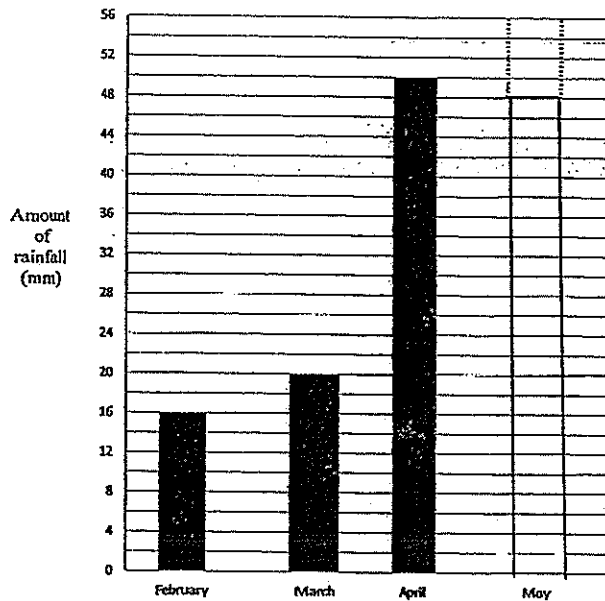
Find the total amount of money donated to the charity.

Answer: \_\_\_\_\_ [5m]

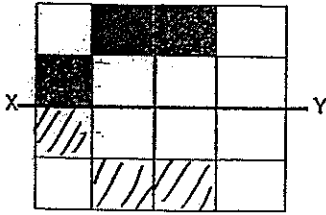
**End of Paper**

Rosyth School  
First Semestral Assessment 2014  
Primary 5

- 1) 1
- 2) 2
- 3) 2
- 4) 3
- 5) 4
- 6) 1
- 7) 3
- 8) 1
- 9) 2
- 10) 2
- 11) 3
- 12) 4
- 13) 3
- 14) 4
- 15) 3
- 16) 72
- 17) 208
- 18) 11/16
- 19) A : 56  
B : 8
- 20) 4 cm
- 21) 54.5 kg
- 22) 324 marbles
- 23) 25 kg
- 24) 1 : 2
- 25)



26)



27)  $1 - \frac{4}{9} = \frac{5}{9}$   
 $(\frac{5}{9}) / 10 = \frac{1}{18}$

28)  $5 * 2 = 10$   
 $3 * 10 = 30$   
 $30 + 13 + 5 = 48$

29)  $23 * 9 = 207$   
 $207 + 4 = 211$

30)  $\$560 / 2 = \$280$   
 $\$280 + \$30 = \$310$

### Paper 2

1)  $67 + 87 + 92 + 70 = 316$   
 $316 / 4 = 79$  marks

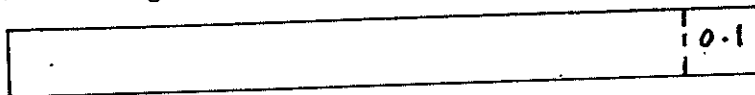
2)  $8\text{cm} + 6\text{cm} + 6\text{cm} = 20\text{cm}$

3) Total durians sold =  $300 + 420 + 350 + 600 = 1670$   
Total amount earned =  $1670 * \$6.50 = \$10\ 855$

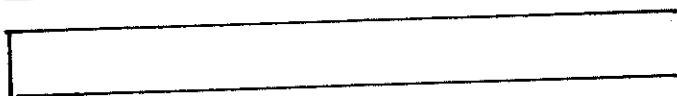
4) 3 yellow  $\rightarrow$  11 green  
96 yellow  $\rightarrow$   $96 / 3 * 11 = 352$  green  
 $352 + 96 = 448$  stickers

5)  $61.36 - 10 = 51.36$  kg  
 $51.36 * 2 = 102.72$  kg  
 $102.72 / 3 = 34.24$  kg  
 $34.24 + 10 = 44.24$  kg

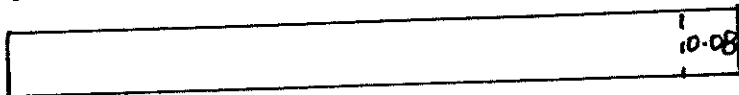
6) Lishan



Shanti

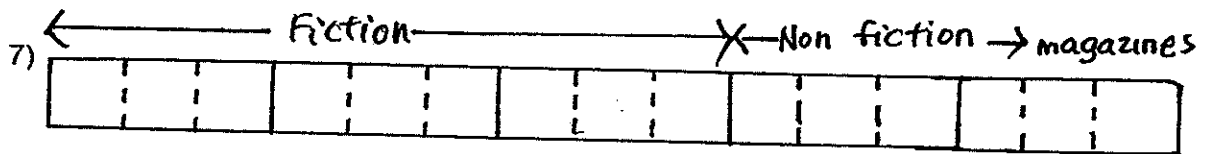


Aminah



$1.15 * 3 = 3.45$  m  
 $3.45 - 0.1 - 0.08 = 3.27$  m  
 $3.27 / 3 = 1.09$  m





$$10/2 = 5$$

$$15 * 5 = 75 \text{ fiction books}$$

8) A : O : P  
2 : 3  
2 : 5

---


$$4 : 6 : 15$$

$$534/6 = 89$$

$$25 * 89 = 2225 \text{ fruits}$$

9)  $\$1.45 * 2 = \$2.90$   
 $\$2.95 * 2 = \$5.90$   
 $\$5.90 - \$2.90 = \$3$   
 $\$1.45 - \$1.20 = \$0.25$   
 $\$3 / \$0.25 = 12 \text{ apples}$

10)  $22 - 18 = 4$   
 $\$16 + \$18 = \$34$   
 $\$34 / 4 = \$8.50$   
 $\$8.50 * 18 = \$153$   
 $\$153 + \$18 = \$171$

11) Hassan \$450.50

Shi Min \$1060.90

$$\$1060.90 - \$450.50 = \$610.40$$

$$\$610.40 / 7 = \$87.20$$

$$\$87.20 * 5 = \$436$$

$$\$450.50 - \$436 = \$14.50$$

12) 5 shirts + 10 blouses → \$745  
 1 shirt + 2 blouses → \$149  
 2 shirts + 4 blouses → \$298  
 2 shirts + 3 blouses → \$256

---

Difference : 1 blouse → \$42  
 2 blouses →  $\$42 * 2 = \$84$

$$1 \text{ shirt} + \$84 \rightarrow \$149$$

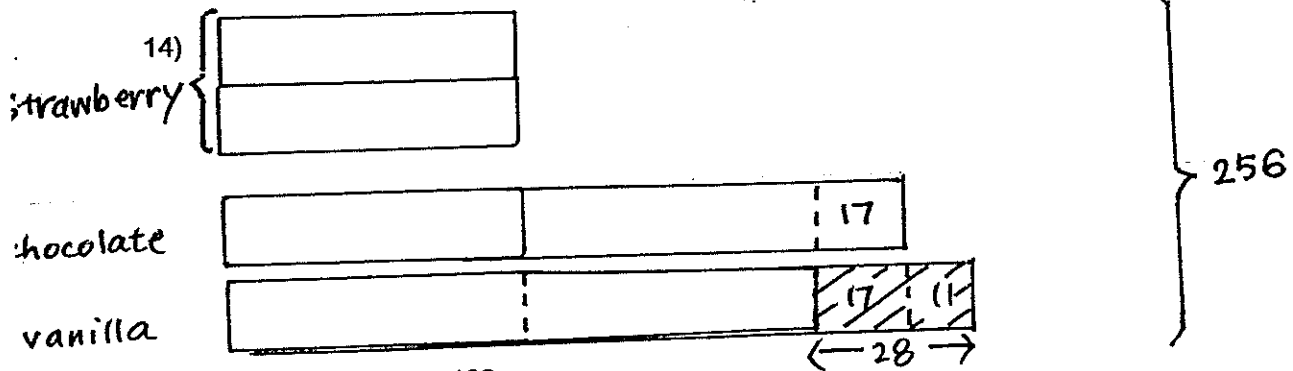
$$1 \text{ shirt} \rightarrow \$149 - \$84 = \$65$$

$$2 \text{ shirts} \rightarrow \$65 * 2 = \$130$$

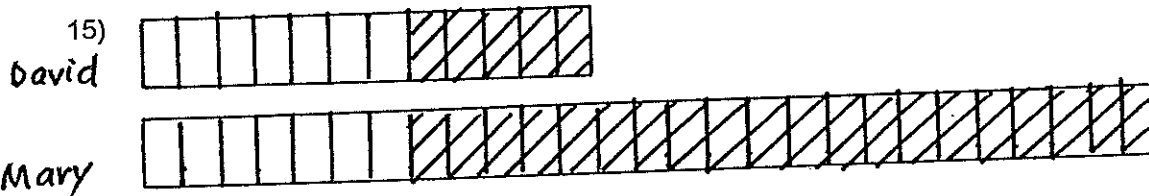
Hence  $\$130 + \$210 = \$340$  (total cost)

13)  $4u \rightarrow 28 \text{ m}$   
 a)  $1u \rightarrow 28/4 = 7 \text{ m}$   
 $22u \rightarrow 22 * 7 = 154 \text{ m}$

b)  $23-9 = 14$  (new number of pots)  
 $154/13 = 11.85$  m

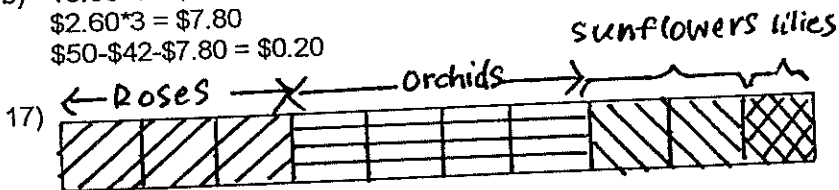


$256-72+28-11-72 = 129$   
 $129/3 = 43$  (chocolate)  
 $43+72+11 = 126$  (vanilla)  
 $43*2 = 86$  (strawberry)



$\$52.50/7 = \$7.50$   
 $\$7.50*40 = \$300$

16)  $50/10.5 = 4$  R 8  
 a)  $8/2.60 = 3$  slices  
 $4*5+3 = 23$  slices  
 b)  $10.50*4 = \$42$   
 $\$2.60*3 = \$7.80$   
 $\$50-\$42-\$7.80 = \$0.20$



a)  $2/10 = 1/5$   
 b)  $2u \rightarrow 18$   
 $10u \rightarrow 10/2*18 = 90$

18) B : A+B+C+D+E  
 1 : 4  
 C : A+B+D+E  
 3 : 17  
 D+E : A+B+C  
 3 : 7  
 6 : 14  
 Total units of A+B+C+D+E = 20  
 Therefore, B=5, C=3, A=6  
 $3u \rightarrow \$1080$   
 $20u \rightarrow 20/3*1080 = \$7200$



## PRIMARY 5 MID-YEAR EXAMINATION 2014

Name : \_\_\_\_\_ (       ) Date: 16 May 2014

Class : Primary 5 (       )

Time: 8.00 a.m. - 8.50 a.m.

Parent's Signature : \_\_\_\_\_

Marks: \_\_\_\_\_ / **100**

**Paper 1 comprises 2 booklets, A and B.**

## **MATHEMATICS**

### **PAPER 1**

### **(BOOKLET A)**

#### **INSTRUCTIONS TO CANDIDATE**

1. Write your name, class and register number.
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.

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. 8 thousands =  hundreds. The missing number in the box is \_\_\_\_\_.

- (1) 8
- (2) 80
- (3) 800
- (4) 8 000

2. Which one of the following is 74 300 when rounded off to the nearest hundred?

- (1) 74 353
- (2) 74 308
- (3) 74 249
- (4) 74 234

3. The perimeter of a square is 52 cm. Its area is \_\_\_\_\_.

- (1)  $13 \text{ cm}^2$
- (2)  $26 \text{ cm}^2$
- (3)  $169 \text{ cm}^2$
- (4)  $676 \text{ cm}^2$

4.  $\frac{1}{2} + \frac{1}{4} =$  \_\_\_\_\_ quarters

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

5. The mass of an apple is  $\frac{5}{7}$  the mass of a mango. What fraction of the total mass is the mass of the mango?

- (1)  $\frac{5}{7}$
- (2)  $\frac{5}{12}$
- (3)  $\frac{7}{5}$
- (4)  $\frac{7}{12}$

6. Which of the following is greater than  $\frac{5}{8}$ ?

- (1)  $\frac{1}{2}$
- (2)  $\frac{2}{3}$
- (3)  $\frac{2}{7}$
- (4)  $\frac{4}{9}$

7. In the table below, Mrs Lau recorded the number of stamps her pupils collected in a month?

Number of stamps collected	0	1	2	3	4
Number of pupils	5	10	16	6	3

How many pupils collected at least 2 stamps?

- (1) 15  
(2) 16  
(3) 25  
(4) 32
8. Michael bought 10 boxes of strawberries at \$4 per kg. Each box contains 2 kg of strawberries. How much did he need to pay for all the strawberries?
- (1) \$5  
(2) \$2  
(3) \$40  
(4) \$80
9. Su Li has the same number of ten-cent and fifty-cent coins. The total value is \$6. How many coins does she have in all?
- (1) 10  
(2) 20  
(3) 36  
(4) 60

10.  $\frac{4}{5}$  of a number is 40. What is the number?

- (1) 50
- (2) 32
- (3) 10
- (4) 8

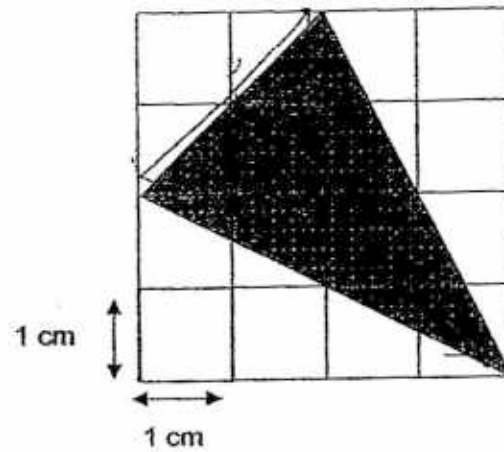
11. For every \$3 saved by Susan, her mother would give her another \$2 to save. How much did she save on her own if she had a total of \$60 in her savings?

- (1) \$90
- (2) \$12
- (3) \$36
- (4) \$40

12. Su Yin had an equal number of red and blue pins. She gave away 26 red pins and bought another 38 blue pins. The number of red pins becomes  $\frac{1}{2}$  the number of blue pins. How many red pins did she have at first?

- (1) 32
- (2) 52
- (3) 64
- (4) 90

13. What is the area of the shaded triangle shown?



- (1)  $6 \text{ cm}^2$
- (2)  $10 \text{ cm}^2$
- (3)  $3 \text{ cm}^2$
- (4)  $4 \text{ cm}^2$

14. The perimeter of rectangle ABCD is 60 cm. If the length of the rectangle is twice its breadth, what is the area of the shaded triangle ABC?



- (1)  $100 \text{ cm}^2$
- (2)  $200 \text{ cm}^2$
- (3)  $900 \text{ cm}^2$
- (4)  $3600 \text{ cm}^2$



15. Aiden spent 4 days making paper airplanes. Each day, he managed to make 2 more paper airplanes than the day before. He made a total of 24 paper airplanes. How many paper airplanes did he make on the first day?

(1) 6

(2) 9

(3) 3

(4) 12

---

- End of Booklet A -



### PRIMARY 5 MID-YEAR EXAMINATION 2014

Name : \_\_\_\_\_ ( )

Date: 16 May 2014

Class : Primary 5 ( )

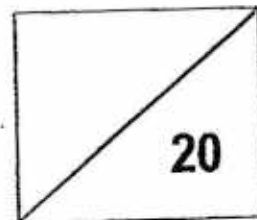
Time: 8.00 a.m. - 8.50 a.m.

Parent's Signature : \_\_\_\_\_

Paper 1 comprises 2 booklets, A and B.

## MATHEMATICS

PAPER 1  
(BOOKLET B)



### INSTRUCTIONS TO CANDIDATE

1. Write your name, class and register number.
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.

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. Round off 62 816 to the nearest thousand.

Ans: \_\_\_\_\_

17. What is the value of  $(115 + 30 \div 2) - 8 \times 4$ ?

Ans: \_\_\_\_\_

18. What is the lowest common multiple of 10 and 12?

Ans: \_\_\_\_\_

19.  $\frac{2}{9} \div 10 = \square$

Ans: \_\_\_\_\_

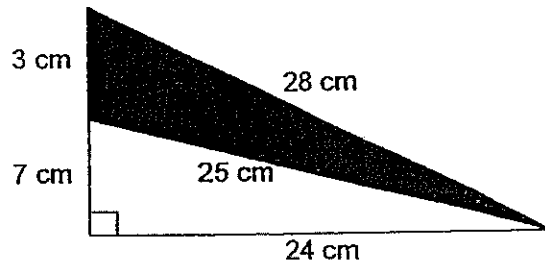
20. Mr Tan went to the bank and changed \$50 into 50-cent coins only. How many 50-cent coins did he receive?

Ans: \_\_\_\_\_

21.  $\frac{3}{5} - \frac{1}{4} = \square$

Ans: \_\_\_\_\_

22. Find the area of the shaded triangle.

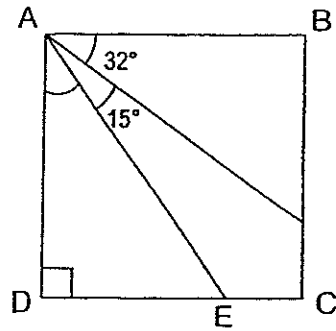


Ans: \_\_\_\_\_  $\text{cm}^2$

23. Arrange the following fractions in ascending order:

Ans: \_\_\_\_\_

24. The figure, not drawn to scale, shows a square ABCD. Find  $\angle DAE$ .



Ans: \_\_\_\_\_°

25. What is the perimeter of a rectangle of length  $\frac{5}{8}$  m and breadth  $\frac{3}{4}$  m? Express your answer as a mixed number in the simplest form.

Ans: \_\_\_\_\_ m

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. Mrs Tan distributed a total of 540 pens and pencils to her pupils. Each pupil received 8 pens and 4 pencils. How many pupils were there?

Ans: \_\_\_\_\_

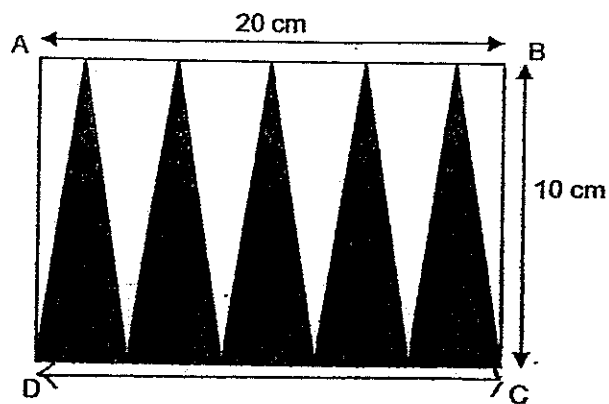
27. Mr Tung is able to cut a piece of rope into 4 pieces of equal length in 12 minutes. How long will it take for him to cut an identical rope into 12 pieces?

Ans: \_\_\_\_\_ min

28. Alice gave  $\frac{4}{5}$  of her stamps to her sister. After her sister had returned 13 of the stamps, Alice had 48 stamps left. How many stamps did Alice have at first?

Ans: \_\_\_\_\_

29. In the figure below, ABCD is a rectangle measuring 20 cm by 10 cm. Find the shaded area.



Ans: \_\_\_\_\_  $\text{cm}^2$



30. Study the pattern. Draw the shape that is in the 25<sup>th</sup> position.



Ans: \$ \_\_\_\_\_

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-End of Booklet B-



## PRIMARY 5 MID-YEAR EXAMINATION 2014

Name : \_\_\_\_\_ (      ) Date: 16 May 2014

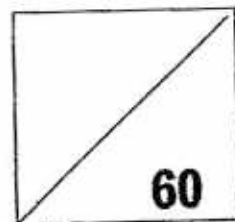
Class : Primary 5 (      )

Time: 10.00 a.m. – 11.40 a.m.

Parent's Signature : \_\_\_\_\_

## MATHEMATICS

### PAPER 2



#### 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.

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. Janet is 6 years old. She is  $\frac{1}{5}$  of her father's age. How old will her father be in 2 years' time?

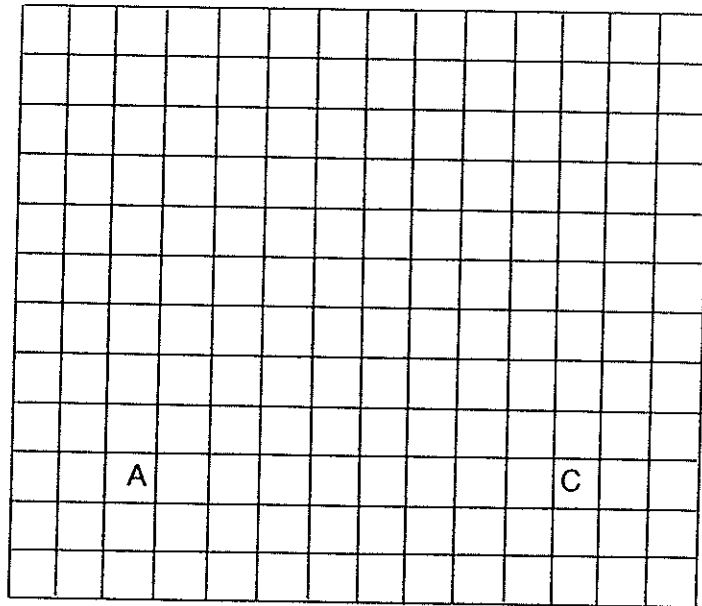
Ans: \_\_\_\_\_

2. There were 600 tiles. For every 4 black tiles, there were 2 white ones. How many white tiles were there?

1

Ans: \_\_\_\_\_

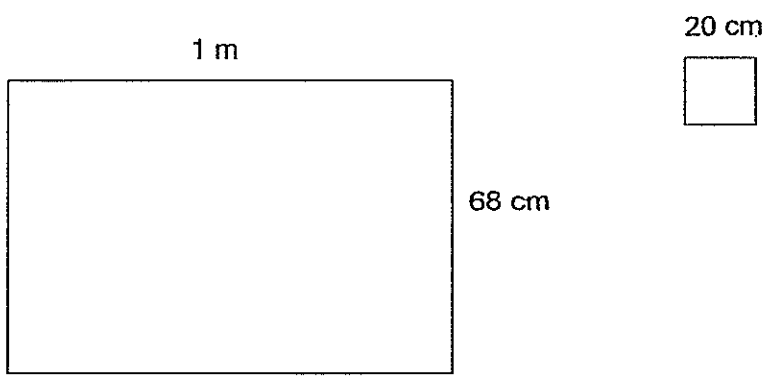
3. In the grid, draw a triangle ABC with  $AB = 5$  units,  $AC = 8$  units and  $\angle BAC = 90^\circ$ .  
The side AC has been drawn for you.



4. The cost of 5 identical blouses and 3 identical shirt is \$65. If the cost of a blouse and a shirt is \$17, what is the cost of each blouse?

Ans: \$ \_\_\_\_\_

5. A piece of cardboard, 1 m long and 68 cm wide, is cut into squares each of side 20 cm. What is the maximum number of such squares that can be cut from the cardboard?



Ans: \_\_\_\_\_

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. Alice bought 16 pens at 4 for \$2. She then had \$10 left. How much money did she have at first?

Ans: \_\_\_\_\_ [3]

---

7. There were a total of 90 apples and oranges in a basket. There were 4 times as many apples as oranges. After some apples were removed, there was an equal number of oranges and apples left. How many apples were removed from the basket?

Ans: \_\_\_\_\_ [3]

---

8. Darren attempted all the 60 questions in a quiz and scored 195 marks. 5 marks were awarded for each correct answer but 2 marks were deducted for each wrong answer. How many questions did Darren answer incorrectly?

Ans: \_\_\_\_\_ [3]

---

9. Alisa sold 168 cupcakes on Monday. She sold  $\frac{2}{7}$  of the remainder on Tuesday and had half of her cupcakes left. Find the number of cupcakes she sold altogether.

Ans: \_\_\_\_\_ [3]

---

10. If Renee gave 7 picture cards to each of her friends, she would have 4 cards left. If she gave 8 picture cards, she would be short of 2 cards. How many cards did she have?

Ans: \_\_\_\_\_ [3]

---

11.  $\frac{1}{4}$  of Dana's savings is equal to  $\frac{2}{5}$  of her sister's savings. The difference in the amount of their savings is \$171. What is the total amount of savings that Dana and her sister have?

Ans: \_\_\_\_\_ [3]

---



12. There were 540 adults and some children at a funfair. A total of 6 120 packets of sweets were given away. Each child received 5 packets of sweets and each adult received 3 packets of sweets.
- (a) How many children were there?
  - (b) What fraction of the people were children? Leave your answer in the simplest form.

Ans: (a) \_\_\_\_\_ [2]

7

(b) \_\_\_\_\_ [2]

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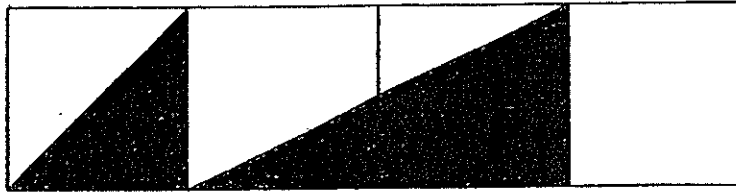
13. Isaac receives \$12 more than Sam for their weekly allowances. Every week, each boy spends \$60 and saves the rest of their allowances. After a few weeks, Isaac's savings was \$224 and Sam's savings was \$140.

- (a) How many weeks did Isaac take to save \$224?
- (b) What was Sam's weekly allowance?

Ans: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [2]

14. The figure, not drawn to scale, is made up of 4 identical squares.
- (a) What fraction of the figure is shaded?
  - (b) Given that the perimeter of the figure is 80 cm, find the shaded area.



Ans: (a) \_\_\_\_\_ [1]

(b) \_\_\_\_\_ [3]

15. At a Science competition,  $\frac{1}{3}$  of the winners won silver medals.  $\frac{4}{5}$  of the remainder won bronze medals while the rest won gold medals. There were 60 more bronze than gold medal winners. How many medal winners were there?

Ans: \_\_\_\_\_ [5]

16. A box containing 9 identical balls weighed 810g. After 13 such balls were added into the box, the mass of the box and the balls became 1 850g.

a) What is the mass of the box?

b) Given that the mass of the box and the balls has to be less than 1 500g, what is the **least** number of balls that should be removed from the box?

Ans: a) \_\_\_\_\_ [3]

b) \_\_\_\_\_ [2]

17. May had a collection of 224 bookmarks. After May threw away 32 bookmarks, June had  $\frac{2}{3}$  of what May had left.
- a) How many bookmarks did June have at first?
  - b) If May had given the 32 bookmarks to June instead, what fraction of May's collection was June's?

Ans: a) \_\_\_\_\_ [2]

b) \_\_\_\_\_ [3]

18. Three friends, Ruth, Sarah and Teresa shared 864 beads. Ruth gave some of her beads to Sarah and Sarah's beads doubled. Then, Sarah gave some of her beads to Teresa and Teresa's beads doubled. In the end, the 3 girls had an equal number of beads each. How many beads did Ruth have at first?

Ans: \_\_\_\_\_ [5]





**EXAM PAPER 2014**

LEVEL : PRIMARY 5

SCHOOL : TAO NAN

SUBJECT : MATHS

TERM : SA1

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

Q16 63000

Q17 98

Q18 60

Q19  $\frac{1}{45}$ 

Q20 100

Q21  $\frac{7}{20}$ Q22 36 cm<sup>2</sup>Q23  $\frac{2}{5}, \frac{1}{2}, \frac{3}{4}, \frac{3}{2}$ 

Q24 43°

Q25  $2\frac{3}{4}$  m

Q26 45

Q27 44 min

Q28 175

Q29 100cm<sup>2</sup>Q30

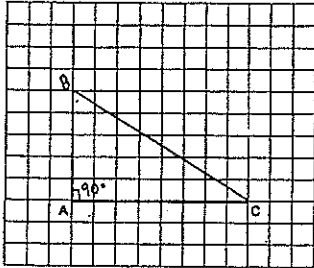


## Paper 2

Q1  $6 \times 5 = 30$   
 $30 + 2 = 32$

Q2  $4 + 2 = 6$   
 $600 \div 6 = 100$   
 $100 \times 2 = 200$

Q3



Q4

$$\begin{array}{r} 1 \text{ blouse} + 1 \text{ shirt} = \$17 \\ 5 \text{ blouses} + 5 \text{ shirts} = \$85 \\ \hline 5 \text{ blouses} + 3 \text{ shirts} = \$65 \\ 2 \text{ shirts} \rightarrow \$85 - \$65 \\ \quad = \$20 \\ 1 \text{ shirt} \rightarrow \$20 \div 2 \\ \quad = \$10 \\ 3 \text{ shirts} \rightarrow \$10 \times 3 \\ \quad = \$30 \\ \$65 - \$30 = \$35 \\ 1 \text{ blouse} \rightarrow \$35 \div 5 \\ \quad = \$7 \end{array}$$

Q5  $100 \div 20 = 5$   
 $68 \div 20 \approx 3$   
 $5 \times 3 = 15$

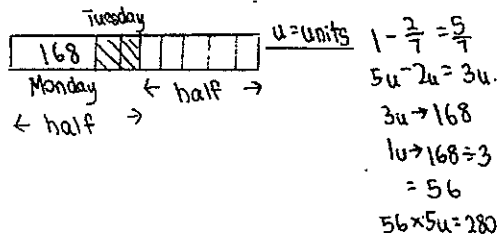
Q6  $16 \div 4 = 4$   
 $4 \times \$2 = \$8$   
 $\$8 + \$10 = \$18$

Q7  $90 \div 5 = 18$   
 $18 \times 3 = 54$

Q8  $60 \times 5 = 300$   
 $300 - 195 = 105$   
 $5 + 2 = 7$   
 $105 \div 7 = 15$

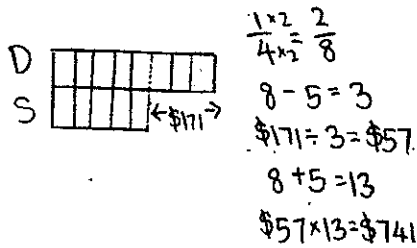


Q9



Q10  $2 + 4 = 6$   
 $6 \times 7 = 42$   
 $42 + 4 = 46$

Q11



Q12 (a)  $540 \times 3 = 1620$   
 $6120 - 1620 = 4500$   
 $4500 \div 5 = 900$

(b)  $900 + 540 = 1440$   
 $\frac{900}{1440} = \frac{5}{8}$

Q13 (a)  $\$224 - \$140 = \$84$   
 $\$84 \div \$12 = 7 \text{ weeks}$

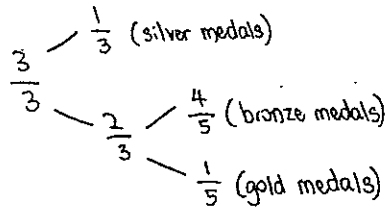
(b)  $7 \times \$60 = \$420$   
 $\$420 + \$224 = \$644$   
 $\$644 \div 7 = \$92$   
 $\$92 - \$12 = \$80$

Q14 (a)  $\frac{3}{8}$   
 (b)

$4 \times 2 = 8$   
 $1 \times 2 = 2$   
 $8 + 2 = 10$   
 $80 \text{ cm} \div 10 = 8 \text{ cm}$   
 $8 \text{ cm} \times 8 \text{ cm} = 64 \text{ cm}^2$   
 $64 \text{ cm}^2 \div 2 = 32 \text{ cm}^2$   
 $32 \text{ cm}^2 \times 3 = 96 \text{ cm}^2$



Q15

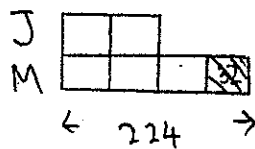


$$\begin{array}{r} \frac{4}{5} \times \frac{2}{3} = \frac{8}{15} \\ \frac{1}{5} \times \frac{2}{3} = \frac{2}{15} \\ \frac{8}{15} - \frac{2}{15} = \frac{6}{15} \\ \frac{6}{15} \div 6 = 10 \\ \frac{8}{15} + \frac{2}{15} = \frac{10}{15} \\ 10 \times 10 = 100 \\ 100 \div 2 = 50 \\ 50 \times 3 = 150 \end{array}$$

Q16 (a)  $1850\text{g} - 810\text{g} = 1040\text{g}$   
 $1040\text{g} \div 13 = 80\text{g}$   
 $80\text{g} \times 9 = 720\text{g}$   
 $810\text{g} - 720\text{g} = 90\text{g}$

(b)  $1850\text{g} - 1500\text{g} = 350\text{g}$   
 $350\text{g} \div 80\text{g} = 4.375$   
 $\approx 5 \text{ balls}$

Q17



(a)

$$\begin{array}{r} 224 - 32 = 192 \\ \hline 192 \div 3 = 64 \\ \hline 64 \times 2 = 128 \end{array}$$

(b)

$$\begin{array}{r} 128 + 32 = 160 \\ \hline \frac{160}{192} = \frac{5}{6} \end{array}$$

Q18

$$\begin{array}{r} 864 \div 3 = 288 \\ \hline 288 \div 2 = 144 \text{ (Teresa - at first)} \\ \hline 288 + 144 = 432 \\ \hline 432 \div 2 = 216 \text{ (Sarah - at first)} \\ \hline 288 + 216 = 504 \text{ (Ruth - at first)} \end{array}$$





SINGAPORE CHINESE GIRLS' SCHOOL

FIRST SEMESTRAL ASSESSMENT 2014

PRIMARY 5

MATHEMATICS  
PAPER 1

BOOKLET A

Name : \_\_\_\_\_ ( )

Class : Primary 5 SY

		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

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. In 976 412, the digit 7 is in the \_\_\_\_\_ place.

- (1) hundreds
- (2) thousands
- (3) ten thousands
- (4) hundred thousands

2. What is the missing number in the box?

$$4\ 000\ 000 + 400\ 000 + \boxed{\phantom{000000}} + 400 + 40 = 4\ 404\ 440$$

- (1) 0
- (2) 4000
- (3) 40 000
- (4) 400 000

3. Express  $72 + \frac{5}{100} + \frac{3}{1000}$  as a decimal.

- (1) 72.8
- (2) 72.53
- (3) 72.053
- (4) 72.503

7. A box contains 28 pens. 8 of them are red and the rest are blue.  
Find the ratio of the number of red pens to the number of blue pens.

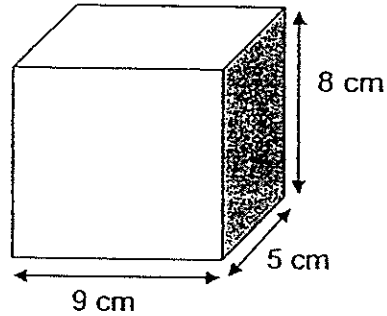
- (1) 2 : 5
- (2) 5 : 2
- (3) 2 : 7
- (4) 7 : 5

8. Lorraine poured  $\frac{4}{5}$  l of grape syrup into 8 glasses.

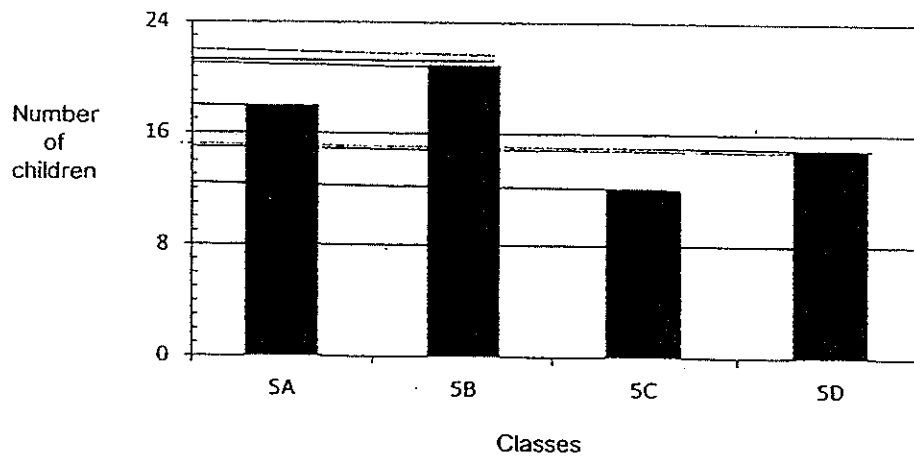
How much syrup was there in each glass?

- (1) 10 l
- (2)  $6\frac{2}{5}$  l
- (3)  $\frac{5}{32}$  l
- (4)  $\frac{1}{10}$  l

9. Find the volume of the rectangular box shown below.



- (1)  $45 \text{ cm}^3$   
(2)  $72 \text{ cm}^3$   
(3)  $320 \text{ cm}^3$   
(4)  $360 \text{ cm}^3$
10. Study the graph below.  
The bar graph shows the number of children in Primary 5A, 5B, 5C and 5D who walk to school.



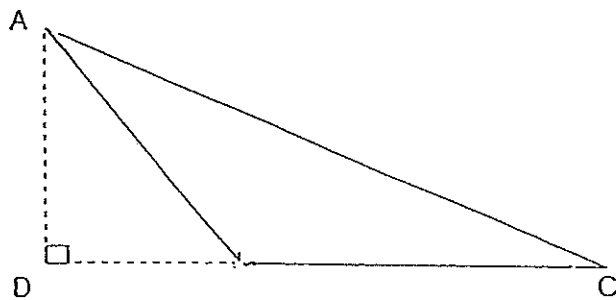
How many children in the 4 classes walk to school?

- (1) 63  
(2) 65  
(3) 66  
(4) 68

11. Jane has twice as many beads as Suzan. Brenda has half as many beads as Suzan. If they have 420 beads altogether how many beads does Jane have?

- (1) 105
- (2) 140
- (3) 240
- (4) 336

12. In the figure shown below, not drawn to scale, BC is twice of DB. What is the ratio of area of Triangle ABC to area of Triangle ADC?



- (1) 1 : 2
- (2) 3 : 2
- (3) 2 : 1
- (4) 2 : 3

13. A rectangular container with a base area of  $2000 \text{ cm}^2$  has 40 litres of water. What is the height of the water in the tank?

(1 litre =  $1000 \text{ cm}^3$ )

- (1) 20 cm
- (2) 25 cm
- (3) 40 cm
- (4) 50 cm

14.  $\frac{2}{5}$  of Antonia's money is equal to  $\frac{1}{3}$  of Debra's money.  
What is the ratio of Antonia's money to Debra's money?

- (1) 1 : 1
- (2) 2 : 1
- (3) 5 : 3
- (4) 5 : 6

15. There are 9 lamp-posts on a street.  
The distance between the 1st and the 9th lamp-post is 144 m.  
What is the distance between the 4th and 7th lamp-post?

- (1) 48 m
- (2) 54 m
- (3) 64 m
- (4) 72 m

**Booklet B**

Name: \_\_\_\_\_ ( ) Class: P5 SY

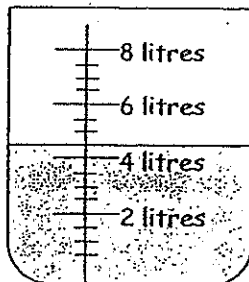
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this column

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. (10marks)

16. Write six million, twenty thousand and ninety-four in figures.

Ans: \_\_\_\_\_

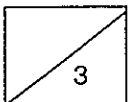
17. How many litres of water are there in the beaker shown below?



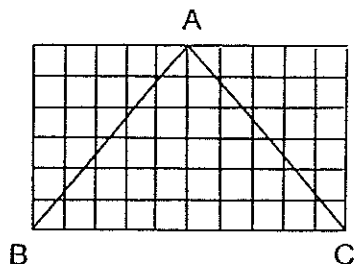
Ans: \_\_\_\_\_ l

18. Evaluate  $49 + 17 - (32 + 16) \div 6$

Ans: \_\_\_\_\_

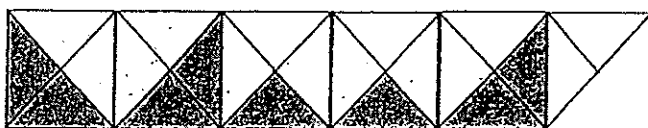


19. Find the area of triangle ABC given that each square measures 1cm by 1 cm.



Ans: \_\_\_\_\_ cm<sup>2</sup>

20. What fraction of the figure is unshaded?  
Express the number of unshaded parts as a fraction of the shaded parts



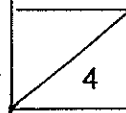
Ans: \_\_\_\_\_

21. Find the value of  $\frac{5}{8} \times \frac{2}{7}$ . Express the answers in its simplest form.

Ans: \_\_\_\_\_

22. Pamela has 250 stickers. Britney has 130 stickers.  
Find the ratio of the number of stickers Pamela had to the total number of stickers.

Ans: \_\_\_\_\_

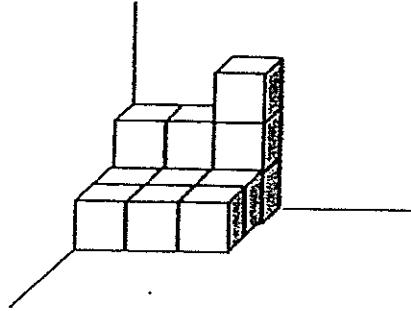






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23. The solid below is made up of 1-cm cubes.  
Find its volume.



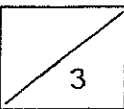
Ans: \_\_\_\_\_ cm<sup>3</sup>

24. A pail contains 840 cm<sup>3</sup> of water when it is  $\frac{2}{3}$  full.  
Find the capacity of the pail.

\_\_\_\_\_ cm<sup>3</sup>

25. Tommy gave away  $\frac{2}{3}$  of a cake and ate  $\frac{1}{4}$  of it.  
What fraction of the cake did he had he left?

Ans: \_\_\_\_\_



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)**

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26.  $\frac{1}{2}$  of a class are boys.  $\frac{1}{3}$  of the boys wear spectacles.

What fraction of the class are boys who wear spectacles?

Ans: \_\_\_\_\_

27. Mrs Lee baked some strawberry and cheese muffins.

There were  $\frac{3}{4}$  as much cheese muffins as strawberry muffins.

If there were 105 muffins altogether, how many strawberry muffins did Mrs Lee bake?

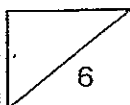
Ans: \_\_\_\_\_

28. In a fish tank, the ratio of the number of guppies to the number of angelfish is 4 : 5.

20 more guppies were put into fish tank and the ratio became 13 : 10.

How many guppies were there at first?

Ans: \_\_\_\_\_

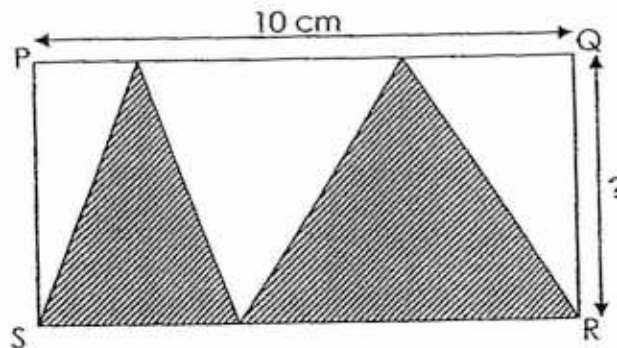


29. For every 4 wallets Tommy bought, he will buy 1 bag. Each wallet cost \$5 and each bag cost \$20. He spent \$80 altogether. How many bags did he buy?

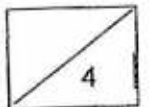
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Ans: \_\_\_\_\_

30. In the figure below, not drawn to scale, PQRS is a rectangle. The two shaded triangles have a total area of  $55 \text{ cm}^2$ . What is the breadth of the rectangle?



Ans: \_\_\_\_\_ cm



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)**

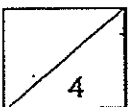
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1. Mr Wong distributed 2868 oranges equally among his 32 workers and had some oranges left. How many oranges did he have left?

Ans: \_\_\_\_\_

2. A container that is  $\frac{1}{2}$  - filled contains 9 l of water. After some water is added into the container, the container becomes  $\frac{7}{8}$  - filled. How many litres of water have been added?

Ans: \_\_\_\_\_ l

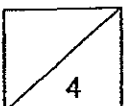


3. When Mr Gopal packed some buns into packs of 6, he was short of 4 buns. When he packed the buns into packs of 8, he had 2 buns left. What was the minimum number of buns Mr Gopal had?

Ans: \_\_\_\_\_

- 
4. A carton can contain **either** a maximum of 74 peaches or a maximum of 56 apples. If there are already 24 peaches and 28 apples in the carton, how many more peaches can be put into the carton?

Ans: \_\_\_\_\_

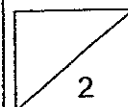


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5.  $\frac{1}{4}$  of a number is 243 less than  $\frac{5}{8}$  of the same number. What is the number?

Ans: \_\_\_\_\_

---



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)

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6. Lionel had 138 marbles and Kevin had 96 marbles. Both boys gave away an equal number of marbles. In the end, Lionel had thrice as many marbles as Kevin. How many marbles did each boy give away?

Ans: \_\_\_\_\_ [3]

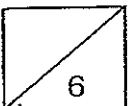
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7. Jessie used some rose syrup, milk and water to make a drink. She used three times as much water as milk to make the drink. The amount of rose syrup used is  $\frac{2}{3}$  the amount of milk used. If she made a total of 3500 ml of drink, how many millilitres of water did she use?

4

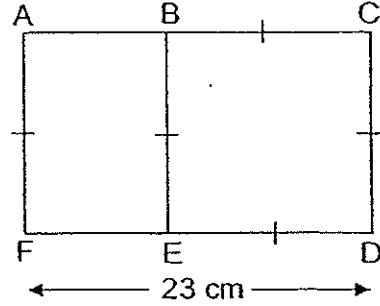
Ans: \_\_\_\_\_ [3]

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8. The following figure, with a perimeter of 78 cm, is made up of a rectangle and a square. The length of FED is 23 cm. What is the area of Rectangle ACDF?

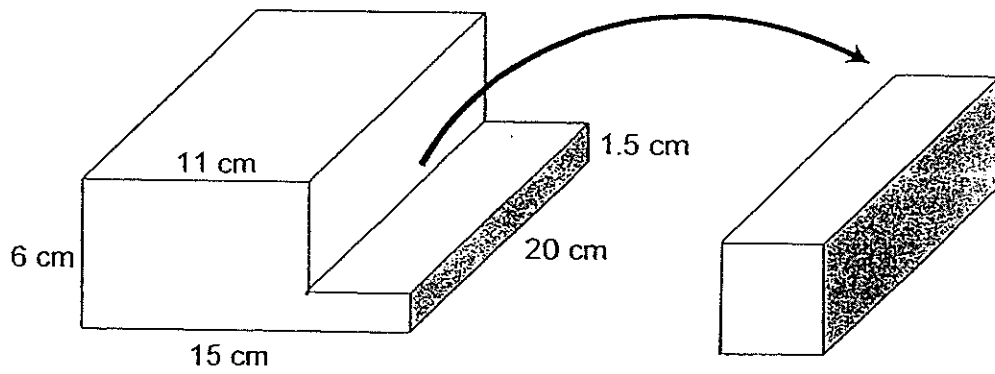


Ans: \_\_\_\_\_ [3]

9. Aishah had a total of  $6\frac{3}{4}$  m of red and white cloth. She used  $3\frac{1}{2}$  m of red cloth and  $2\frac{3}{4}$  m of white cloth and was left with the same length of red and white cloth. What was the length of white cloth Mrs Lim had at first?  
Aishah

Ans: \_\_\_\_\_ [3]

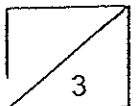
10. The figure below is not drawn to scale. Justin cut out a rectangular block from a wooden cuboid 15 cm long, 20 cm wide and 6 cm high as shown below. What is the volume of the remaining wooden block?



Remaining Wooden Block

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Ans: \_\_\_\_\_ [3]



11. Benny received the same amount of salary in January and February.  
In both months, he spent part of his salary and saved the rest.

In January, he saved  $\frac{2}{3}$  of the amount that he spent.

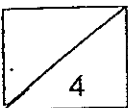
In February, he saved  $\frac{4}{5}$  of the amount that he spent.

He saved \$150 more in February than in January.

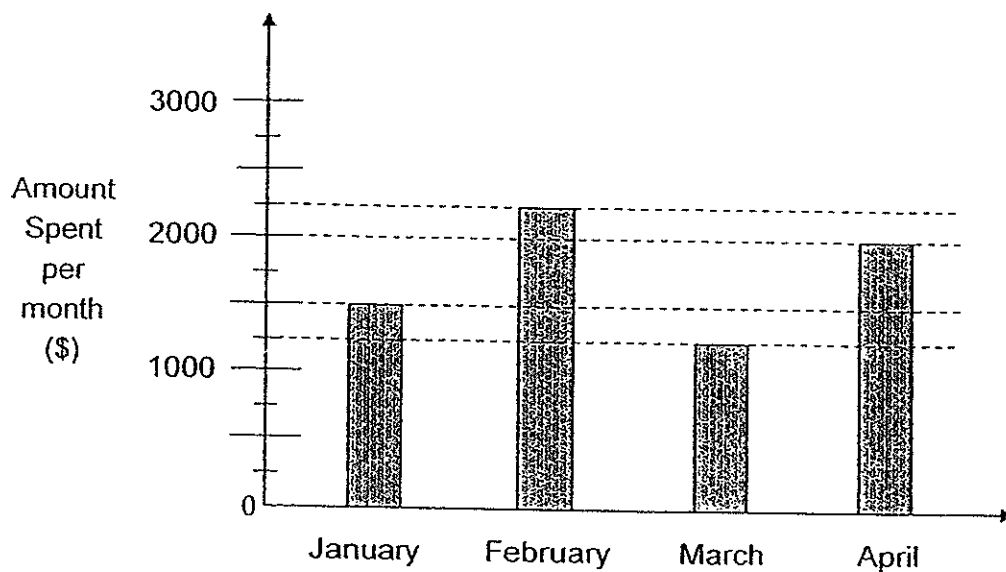
Find Benny's salary per month.

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this column

Ans: \_\_\_\_\_ [4]



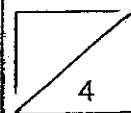
12. Marilyn earns \$3000 per month. The bar graph below shows the amount of money that she spent from January to April



- a) What is Marilyn's total savings in four months?  
b) Express her total savings as a fraction of her total earnings in four months. (Express your answer in its lowest term)

Ans: \_\_\_\_\_ [2]

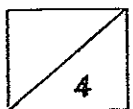
\_\_\_\_\_ [2]



13. Mr Ho had 108 cups. He found that some of the cups were cracked and had to throw them away. He sold  $\frac{2}{3}$  of the remaining cups at \$4 each and the rest at \$5 each. He collected \$390. How many cups did he throw away?

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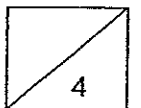
Ans: \_\_\_\_\_ [4]



14. Zoe baked some cupcakes. She gave her neighbours 84 cupcakes. She also gave  $\frac{2}{5}$  of the remaining cupcakes to her aunt, after which, she was left with  $\frac{1}{4}$  of the total number of number of cupcakes.  
How many cupcakes did she give to her aunt?

Do not write in  
this column

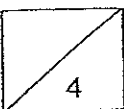
Ans: \_\_\_\_\_ [4]



Do not write in  
this column

15. A box contains chocolates and sweets in the ratio 2 : 5. When 36 chocolates are added to the box, there are 60 more sweets than chocolates in the box. Find the ratio of the number of chocolates to the number of sweets at the end. (Give your answer in its simplest form.)

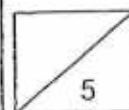
Ans: \_\_\_\_\_ [4]



16. The total mass of 8 tables and 7 benches is 603 kg. The mass of 2 benches is 8 kg more than the mass of each table. Find the total mass of 1 table and 1 bench.

Do not write in  
this column

Ans: \_\_\_\_\_ [5]





17. Meiling used some toothpicks to form a series of squares. The first four figures are shown below. Study the pattern and answer the following questions.

Do not write in this column



Figure 1



Figure 2

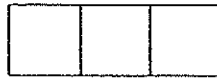


Figure 3



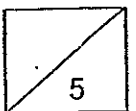
Figure 4

Figure	No. of squares	No. of toothpicks used
1	1	4
2	2	7
3	3	10
4	4	13
.	.	.
.	.	.
10	10	(a) _____

- a) How many toothpicks did Meiling use for Figure 10?  
 b) If Meiling used 451 toothpicks to form a row of squares, how many squares are there in the row?

Ans: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [3]



18. Hazel had the same number of purple beads, red beads and yellow beads. After giving away 152 yellow beads, some purple beads and red beads, she had 324 beads left.

The remaining red beads were three times as many as the remaining purple beads. The remaining purple beads were 59 fewer than the remaining yellow beads.

- a) How many red beads were given away?
- b) Express the number of red beads given away as a fraction of the total number of beads given away.

Ans: (a) \_\_\_\_\_ [3]

(b) \_\_\_\_\_ [2]

## Exam Paper 2014 Answer Sheet

School: SINGAPORE CHINESE GIRLS' SCHOOL  
Subject: PRIMARY 5 MATHEMATICS  
Term: SA1

### Paper 1

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

16. 6020094

17. 4.5

18. 58

19. 30

20.  $1\frac{3}{4}$

21.  $\frac{5}{28}$

22. 25 : 38

23. 13

24. 1260

25.  $\frac{1}{12}$

26.  $\frac{1}{6}$

27.  $7u \rightarrow 105$

$$1u \rightarrow 105 \div 7 = 15$$

$$4u \rightarrow 15 \times 4 = 60$$

28.  $13u - 8u = 5u$

$$5u \rightarrow 20$$

$$1u \rightarrow 20 \div 5 = 4$$

$$8u \rightarrow 4 \times 8 = 32$$

29.  $4w + 1b = \$5 \times 4 + \$20 = \$40$

$$\text{No. of gps} \rightarrow \$80 \div \$40 = 2.$$

$$1 \text{ gp} \rightarrow 1b$$

$$2 \text{ gp} \rightarrow 2b$$



30.  $55 \times 2 = 110$   
 $110 \div 10 = 11$

## Paper 2

1.  $2868 \div 32 = 89.625$   
 $89 \times 32 = 2848$   
R  $\rightarrow 2868 - 2848 = 20$

2.  $\frac{1}{2} = \frac{4}{8}$   
 $\frac{4}{8} \rightarrow 9 \text{ litres}$   
 $\frac{1}{8} \rightarrow 9 \text{ litres} \div 4 = 2.25 \text{ litres}$   
 $\frac{7}{8} - \frac{4}{8} = \frac{3}{8}$   
 $\frac{3}{8} \rightarrow 2.25 \text{ litres} \times 3 = 6.75 \text{ litres}$

3. 6, 12, 18, 24, 30, 36  
(- 4) 2, 8, 14, 20, **26**, 32  
8, 16, 24, 32, 40, 48  
(+ 2) 10, 18, **26**, 34, 42, 50

4. P : A  
74 : 56  
37 : 28  
Additional P  $\rightarrow 37 - 24 = 13$

5.  $\frac{5}{8} - \frac{2}{8} = \frac{3}{8}$   
 $\frac{3}{8} \rightarrow 243$   
 $\frac{1}{8} \rightarrow 81$   
 $\frac{2}{8} \rightarrow 162$   
 $162 \div \frac{2}{8} = 648$

6. Diff  $\rightarrow 2u$   
 $2u \rightarrow 138 - 96 = 42$   
 $1u \rightarrow 42 \div 2 = 21$   
Give away  $\rightarrow 96 - 21 = 75$

7.  $14u \rightarrow 3500\text{ml}$   
 $1u \rightarrow 250\text{ml}$   
Water  $\rightarrow 250\text{ml} \times 9 = 2250\text{ml}$

8. P  $\rightarrow 78\text{cm}$   
2 length  $\rightarrow 23 \times 2 = 46$   
2 breadth  $\rightarrow 78 - 46 = 32$   
1 breadth  $\rightarrow 32 \div 2 = 16$   
Length  $\rightarrow 23\text{cm}$   
Breadth  $\rightarrow 16\text{cm}$   
Area  $\rightarrow 23 \text{ cm} \times 16 \text{ cm} = 368\text{cm}^2$

9.  $3\frac{1}{2}\text{m} + 2\frac{3}{4}\text{m} = 6\frac{1}{4}\text{m}$   
 $1u \rightarrow 6\frac{3}{4}\text{m} - 6\frac{1}{4}\text{m} = \frac{1}{2}\text{m}$



$$\text{Remaining} \rightarrow \frac{1}{2}m \div 2 = \frac{1}{4}m$$

$$W \rightarrow (2\frac{3}{4} + \frac{1}{4})m = 3m$$

10. Wooden block  $\rightarrow (20 \times 15 \times 6)\text{cm}^3 = 1800\text{cm}^3$

Cut out  $\rightarrow (4.5 \times 4 \times 20)\text{cm}^3 = 360\text{cm}^3$

Remaining  $\rightarrow (1800 - 360) = 1440\text{cm}^3$

11. Jan

Save : Spent : Salary

$$2 : 3 : 5 \text{ (x9)}$$

$$18 : 27 : 45$$

Feb

Save : Spent : Salary

$$4 : 5 : 9$$

$$20 : 25 : 45$$

$$20 - 18 = 2$$

$$2u \rightarrow 150$$

$$\text{Salary} \rightarrow \$150 \div 2 \times 45 = \$3375$$

12. (a) Total that she spent  $\rightarrow 1500 + 2250 + 1250 + 2000 = 7000$

Total earnings  $\rightarrow \$3000 \times 4 = \$12000$

Savings  $\rightarrow \$12000 - \$7000 = \$5000$

(b)  $\frac{5000}{12000} = \frac{5}{12}$

13.  $\$4 \times 2 = \$8$

$$\$8 + 5 = \$13$$

$$\$390 \div \$13 = 30$$

$$30 \times 3 = 90$$

$$108 - 90 = 18$$

14.  $\frac{1}{4}T \rightarrow 3u$

$$T \rightarrow 3u \times 4 = 12u$$

$$12u - 5u = 7u$$

$$7u \rightarrow 84$$

$$1u \rightarrow 12$$

$$\text{Aunt} \rightarrow 12 \times 2 = 24$$

15.  $3u \rightarrow 36 + 60 = 96$

$$1u \rightarrow 96 \div 3 = 32$$

$$C \rightarrow 2 \times 32 + 36 = 100$$

$$S \rightarrow 32 \times 5 = 160$$

C : S

$$100 : 160$$

$$5 : 8$$

16.  $1B \rightarrow 1u + 4\text{kg}$

$$7B \rightarrow 7u + 28\text{kg}$$

$$16u + 7u + 28\text{kg} = 603\text{kg}$$

$$23u \rightarrow (603 - 28)\text{kg} = 575\text{kg}$$

$$1u \rightarrow 575\text{kg} \div 23 = 25\text{kg}$$





$$1B \rightarrow 25 + 4 = 29\text{kg}$$

$$1T \rightarrow 25 \times 2 = 50$$

$$1B + 1T \rightarrow 29 + 50 = \mathbf{79\text{kg}}$$

$$17. (a) 10 \rightarrow 10 \times 3 + 1 = 31$$

$$(b) 3 \times n + 1 = 451$$

$$3 \times n \rightarrow 451 - 1 = 450$$

$$N \rightarrow 450 \div 3 = \mathbf{150}$$

$$18. (a) \text{Gave away} \rightarrow 264 - 53 \times 3 = 105$$

$$\text{Total give away} \rightarrow 152 + 211 + 105 = \mathbf{468}$$

$$(b) \frac{\text{R give away}}{\text{All give away}} = \frac{105}{468} = \frac{35}{156}$$





Anglo-Chinese School (Primary)

END-OF-YEAR EXAMINATION 2014  
MATHEMATICS  
PAPER 1 (BOOKLET A)  
PRIMARY FIVE

Name: \_\_\_\_\_ ( ) Class: Primary 5 \_\_\_\_

Date: 29 October 2014

Duration of Booklets A & B: 50min

**INSTRUCTIONS TO CANDIDATES**

1. This question paper consists of 7 printed pages, including the cover page.
2. Do not turn this page until you are told to do so.
3. Follow all instructions carefully.
4. Shade your answers on the Optical Answer Sheet (OAS) provided.
5. You are not allowed to use a calculator.

Questions 1 to 10 carry 1 mark each. Question 11 to 15 carry 2 marks each. 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. What is the value of 13 thousands and 26 hundreds?

- 1) 13 260
- 2) 15 600
- 3) 39 000
- 4) 132 600

2. Round off 745 921 to the nearest ten thousand.

- 1) 749 000
- 2) 745 920
- 3) 746 000
- 4) 750 000

3. Find the volume of a cube of length 6 cm.

- 1)  $6 \text{ cm}^3$
- 2)  $18 \text{ cm}^3$
- 3)  $36 \text{ cm}^3$
- 4)  $216 \text{ cm}^3$

4. How many eighths are there in  $1\frac{3}{8}$ ?

- 1) 8
- 2) 11
- 3) 3
- 4) 24

5. Gideon has \$55 at first. He spent \$25 on a wallet. What fraction of his money is left?

1)  $\frac{5}{16}$

2)  $\frac{5}{11}$

3)  $\frac{6}{11}$

4)  $\frac{5}{6}$

6. Which one of the following has the same value as  $6\frac{1}{4}$ ?

1) 31

2) 25

3) 8.5

4) 6.25

7. An apple costs \$0.40. A pear costs \$0.80 more than an apple. Find the cost of 10 such pears.

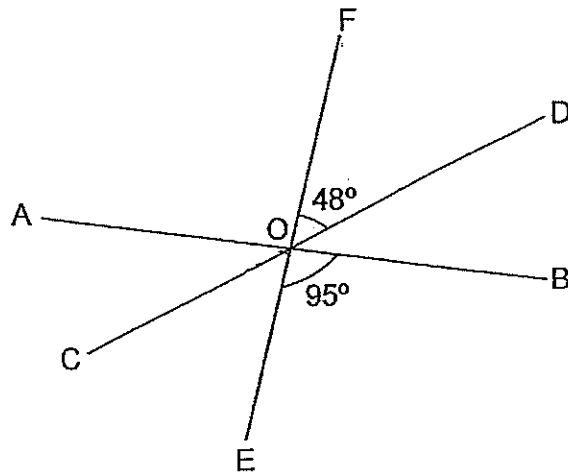
1) \$ 1.20

2) \$ 4.80

3) \$ 12

4) \$ 16

8. In the figure shown, not drawn to scale, AB, CD and EF are straight lines,  $\angle DOF = 48^\circ$  and  $\angle BOE = 95^\circ$ . Find  $\angle AOC$ .



- 1)  $37^\circ$   
2)  $47^\circ$   
3)  $132^\circ$   
4)  $143^\circ$
9. John had twice as many erasers as Mike while Lance has 5 more erasers than Mike. If Lance has 45 erasers, what is the average number of erasers that the 3 boys have?

- 1) 40  
2) 50  
3) 55  
4) 90

10. Express 3.3% as a decimal.

- 1) 0.033
- 2) 0.33
- 3) 3.03
- 4) 3.3

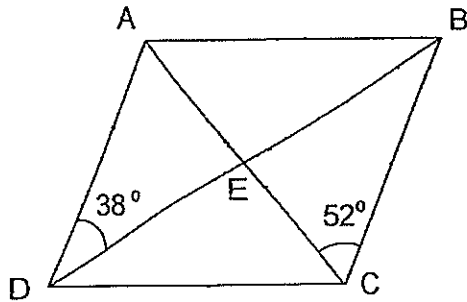
11. 28.2 m of ribbon is cut into 8 shorter pieces. Each of the shorter pieces must measure 1.52 m. What was the length of the remaining piece of ribbon?

- 1) 16.04 m
- 2) 16.40 m
- 3) 20.00 m
- 4) 26.68 m

12. A rectangular tank measuring 30 cm by 40 cm by 40 cm is  $\frac{5}{8}$  filled with water. How many more litres of water are needed to fill the tank to its brim?

- 1) 6
- 2) 18
- 3) 30
- 4) 48

13. In the figure below, not drawn to scale, ABCD is a rhombus.  $\angle ADB = 38^\circ$  and  $\angle BCE = 52^\circ$ . Find  $\angle AEB$ .



- 1)  $74^\circ$
  - 2)  $90^\circ$
  - 3)  $104^\circ$
  - 4)  $128^\circ$
14. The ratio of the number of green markers to the number of orange markers in a box is 3 : 5. There are 18 green markers in the box. If each marker costs \$2, find the total cost of all the markers.
- 1) \$ 16
  - 2) \$ 36
  - 3) \$ 60
  - 4) \$ 96



15. Peter has some ~~cards~~<sup>stamps</sup>. 75% of the stamps are local stamps and the rest are Malaysian stamps. Peter has 450 more local stamps than Malaysian stamps. How many Malaysian stamps does Peter have?

- 1) 150
- 2) 225
- 3) 675
- 4) 900



Anglo-Chinese School (Primary)

END-OF-YEAR EXAMINATION 2014  
MATHEMATICS  
PAPER 1 (BOOKLET B)  
PRIMARY FIVE

Name: \_\_\_\_\_ ( ) Class: Primary 5 \_\_\_\_

Date: 29 October 2014

Duration of Paper Booklets A & B: 50 min

\_\_\_\_\_  
Parent's/Guardian's signature

**INSTRUCTIONS TO CANDIDATES**

1. This question paper consists of 9 printed pages, including the cover page.
2. Do not turn this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. You are not allowed to use a calculator.

Section	Maximum Marks	Marks Obtained
Paper 1 Booklet A. Multiple-Choice Questions	20	
Paper 1 Booklet B. Short Answers: Part 1	10	
Paper 1 Booklet B. Short Answers: Part 2	10	
Total Marks	40	

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. Form the smallest 5-digit even number using all the digits below:

0, 3, 6, 7, 4

Answer: \_\_\_\_\_

17. If  $\frac{2}{5}$  of a number is 18. what is the number?

Answer: \_\_\_\_\_

18.  $13.5 \times 4 = 54$

$$1.35 \times \square = 54$$

What is the missing number?

Answer: \_\_\_\_\_

19. In a class of 40 pupils, 60% of them like to swim. How many pupils in the class like to swim?

Answer: \_\_\_\_\_

20. Express 35% as a fraction in its simplest form

Answer: \_\_\_\_\_

21. Aaron took  $\frac{1}{2}$  h to finish his dinner. His brother took  $\frac{1}{4}$  h longer to finish his dinner. Express the time taken by Aaron to finish his dinner as a ratio to the time taken by his brother to finish his dinner.

Answer: \_\_\_\_\_

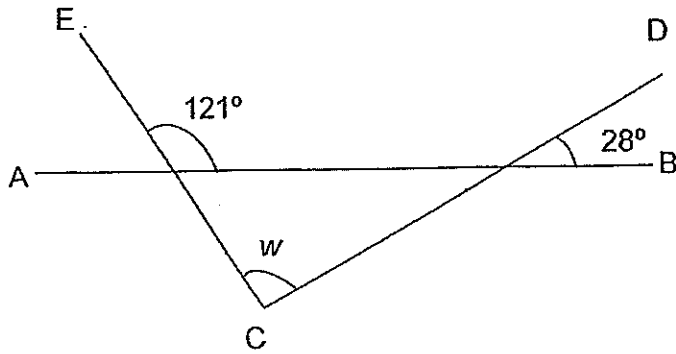
22. Ali and Kumar share some country erasers in the ratio 7 : 5. After Ali gave Kumar 12 country erasers, both of them have the same number of country erasers. How many country erasers do they have altogether?

Answer: \_\_\_\_\_

23. What is the value of  $(35 + 16) - 8 \times 2$ ?

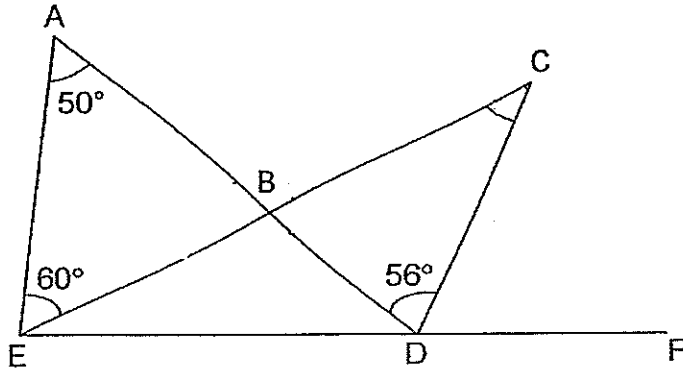
Answer: \_\_\_\_\_

24. In the figure below, not drawn to scale, AB, EC and CD are straight lines.  
Find  $\angle w$ .



Answer: \_\_\_\_\_<sup>o</sup>

25. In the figure below, not drawn to scale, ABD, EBC and EDF are straight lines.  $\angle EAB = 50^\circ$ ,  $\angle AEB = 60^\circ$  and  $\angle CDB = 56^\circ$ .  
Find  $\angle BCD$ .

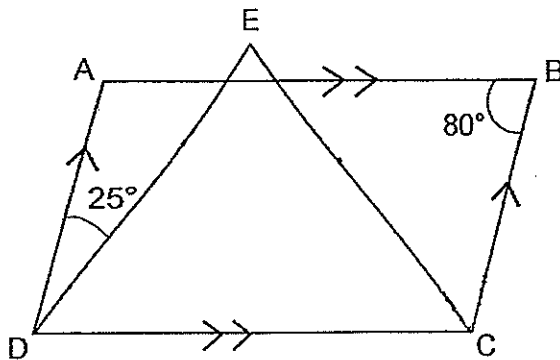


Answer: \_\_\_\_\_°

Questions 26 to 30 carry 2 marks each. Show all mathematical statements clearly in the space below each question and write your answers in the spaces provided.

(10 marks)

26. In the figure below, not drawn to scale, ABCD is a parallelogram.  $DE = CE$ ,  $\angle ADE = 25^\circ$  and  $\angle ABC = 80^\circ$ . Find  $\angle ECB$ .



Answer: \_\_\_\_\_°

27. Two boys and eight girls have an average savings of \$60. The total savings of the two boys is \$96. What is the average savings of the eight girls?

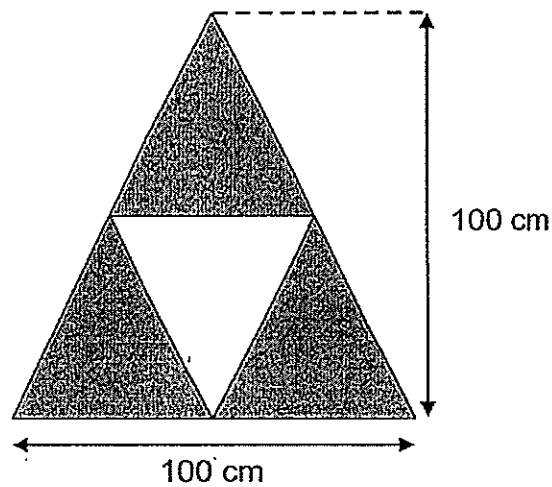
Answer: \$ \_\_\_\_\_



28. Mr Yaidi bought a jacket for \$34 during a sale. The original price of the jacket was \$40. Find the discount as a percentage of the original cost of the jacket.

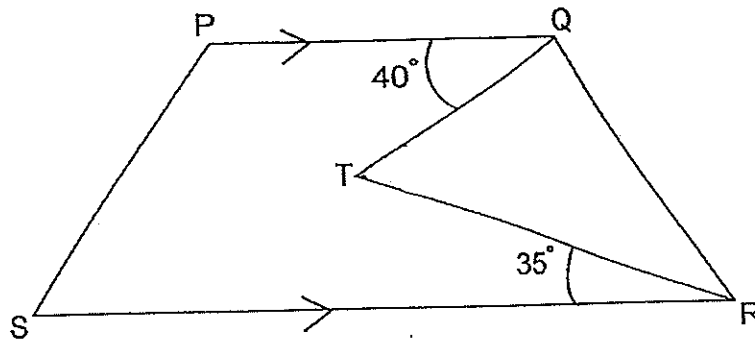
Answer: \_\_\_\_\_ %

29. The figure below is made up of 4 identical triangles. Find the total shaded area.



Answer: \_\_\_\_\_ cm<sup>2</sup>

30. In the figure below, not drawn to scale, PQRS is a trapezium, QTR is a triangle,  $\angle PQT = 40^\circ$  and  $\angle TRS = 35^\circ$ . Find  $\angle QTR$ .



Answer: \_\_\_\_\_<sup>o</sup>

End-of-Paper



Anglo-Chinese School (Primary)

END-OF-YEAR EXAMINATION 2014  
MATHEMATICS  
PAPER 2  
PRIMARY FIVE

Name: \_\_\_\_\_ (     )

Class: Primary 5 \_\_\_\_

Date: 29 October 2014

Duration of Paper 2: 1h 40min.

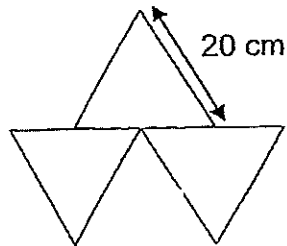
\_\_\_\_\_  
Parent's/Guardian's signature

**INSTRUCTIONS TO CANDIDATES**

1. This question paper consists of 16 printed pages, including the cover page.
2. Do not turn this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. You are allowed to use a calculator.

Section	Maximum Marks	Marks Obtained
Paper 2 Section A. Short Answers	10	
Paper 2 Section B. Problem Sums	50	
Total Marks	60	

3. The figure below is made up of 3 identical equilateral triangles. What is the perimeter of the figure?

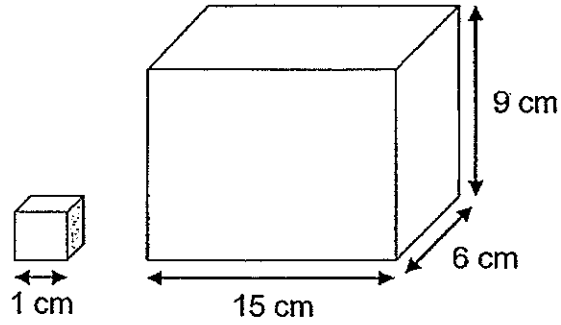


Answer: \_\_\_\_\_ cm

4. Mr Wong paid \$1 926 for a television set including GST of 7%. How much GST did he pay?

Answer: \$ \_\_\_\_\_

5. The cuboid below measures 15 cm long, 6 cm wide and 9 cm high.  
How many 1-cm cubes are needed to fill the cuboid?



Answer: \_\_\_\_\_

For questions 6 to 18, show your steps 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. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (50 marks)

---

6. Billy bought 6 sweets and 10 jellies for \$6.80. If he buys 10 sweets and 5 jellies for \$5.50, find the cost of 1 sweet.

Answer: \_\_\_\_\_ [3]

7. Yvonne has 3 bags, A, B and C. The mass of bag A is  $\frac{3}{4}$  that of bag B. Bag C is  $\frac{1}{2}$  as heavy as bag A. If the mass of bag B is 66 kg, find the mass of bag C. Give your answer in kilograms and grams.

Answer: \_\_\_\_\_ [3]

8. William wanted to buy 7 toy cars but found that he was short of \$35.80. If he were to buy 4 toy cars, he would have \$12.80 left over. How much money did William have?

Answer: \_\_\_\_\_ [3]

9. There are 450 red and black buttons in a container. 62% of the buttons are red. How many fewer black buttons are there than red buttons?

Answer: \_\_\_\_\_ [3]



10. The ratio of Henry's age to Charlie's age is 4 : 5. In 18 years' time, the sum of their ages will be 90 years. What will the ratio of Henry's age to Charlie's age be in 18 years' time?

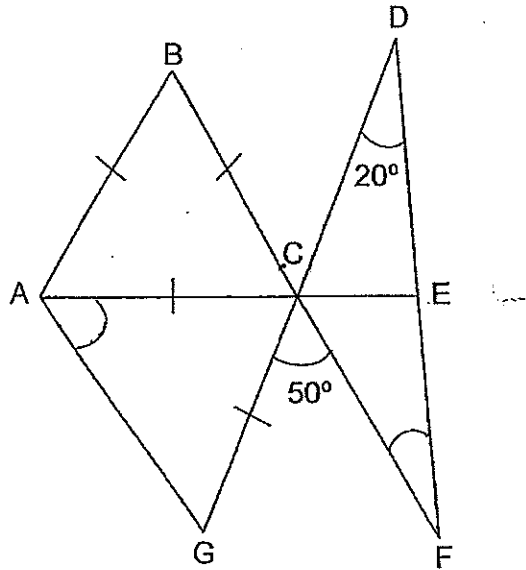
Answer: \_\_\_\_\_ [3]

11. There were a total of 600 black and white beads in a box. 40% of the beads were black and the rest were white. After Angie gave away some white beads, the number of black beads left in the box was 80% of the total left. How many white beads did Angie give away?

Answer: \_\_\_\_\_ [4]

12. In the figure below, not drawn to scale, ABC is an equilateral triangle and ACG is an isosceles triangle. BCF, DCG and ACE are straight lines.  $\angle CDF = 20^\circ$  and  $\angle FCG = 50^\circ$ . Find

- a)  $\angle CAG$   
 b)  $\angle CFE$



Answer: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [2]

13. Joseph spent  $\frac{4}{7}$  of his money on a drink and a plate of chicken rice and had \$4.20 left. The drink cost  $\frac{1}{7}$  as much as the chicken rice.
- (a) What was the cost of the chicken rice?
- (b) Bruce spent the same amount as Joseph on a drink and a plate of chicken rice and had \$4.40 left. What fraction of Bruce's money was spent on the two items?

Answer: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [2]

14. Albert, Bryan, Charlie and Dolly sat for a test. The average score for the test was 75. Albert scored 20 marks higher than Bryan and Charlie scored 30 marks lower than Bryan. Dolly scored 10 marks more than Bryan. How many marks did Albert score?

Answer: \_\_\_\_\_ [4]

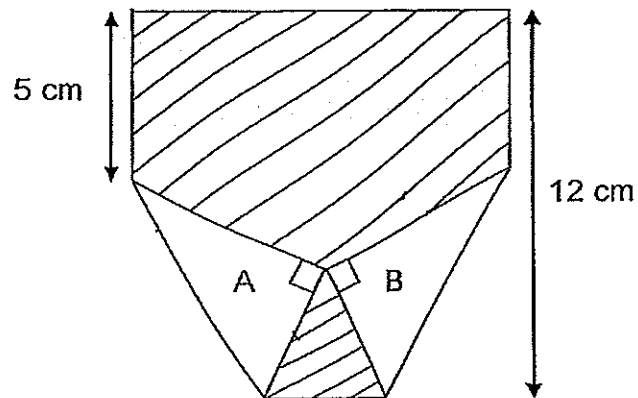
15. There are 5 more pupils in the Art Club than in the Science Club. There are 20 boys in the Art Club and 10 boys in the Science Club. The number of girls in the Art Club is  $\frac{3}{4}$  that of the number of girls in the Science Club.

What percentage of the members in the Science Club are girls?

(Give your answer to correct to 1 decimal place.)

Answer: \_\_\_\_\_ [4]

16. Charles attended an origami lesson during the September holidays. He folded two corners of a piece of square paper and shaded the paper as shown below. Triangle A and Triangle B are identical. Find the total area of the shaded part.



Answer: \_\_\_\_\_ [5]

17. The ratio of the number of blue pens to the number of green pens in a box is 4 : 9. After Tom added another 36 blue pens, there are now ~~12~~<sup>24</sup> more green pens than blue pens in the box.

Find

- (a) the total number of pens in the box at first  
(b) the ratio of the number of blue pens to the number of green pens in the end (Give your answer in its simplest form.)

Answer: (a) \_\_\_\_\_ [3]

(b) \_\_\_\_\_ [2]



18. The figure below shows a pattern formed using some straws.



- (a) How many straws are used to form 13 squares?
- (b) How many squares are formed using 100 straws?

Answer: (a) \_\_\_\_\_ [3]

(b) \_\_\_\_\_ [2]

End-of-Paper



**Anglo-Chinese School (Primary)**  
**End-of-Year Examination 2014**  
**Mathematics**  
**Primary 5**

- 1) 2
- 2) 4
- 3) 4
- 4) 2
- 5) 3
- 6) 4
- 7) 3
- 8) 1
- 9) 3
- 10) 1
- 11) 1
- 12) 2
- 13) 2
- 14) 4
- 15) 2
- 16) 30 476
- 17) 45
- 18) 40
- 19) 24
- 20)  $7/20$
- 21)  $1/2 : 3/4$   
2 : 3
- 22) 144 country erasers
- 23)  $(35+16)-8*2 = 51-16 = 35$
- 24)  $93^\circ$
- 25)  $54^\circ$
- 26)  $45^\circ$
- 27)  $\$60*10 = \$600$   
 $\$600-\$96 = \$504$   
 $\$504/8 = \$63$
- 28)  $\$40 - \$34 = \$6$   
 $6/40*100\% = 15\%$
- 29)  $1/2*100*100 = 5000 \text{ cm}^2$   
 $3/4*5000 = 3750 \text{ cm}^2$
- 30) Draw a parallel line to PQ & SR, through T  
 $40+35 = 75^\circ$

**Paper 2**

- 1)  $(30-10-10)/2 = 5 \text{ cm}$   
 $1/2*5*10 = 25 \text{ cm}^2$
- 2)  $18*\$0.50 = \$9$   
 $\$9/\$3 = 3 \text{ cups}$
- 3)  $20*7 = 140 \text{ cm}$

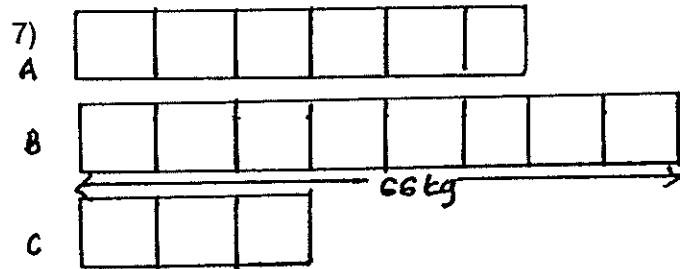
4)  $107\% \rightarrow \$1926$   
 $7\% \rightarrow 7/107 * \$1926 = \$126$

5)  $15 * 6 * 9 = 810$  cubes

6) 10 sweets + 5 jellies  $\rightarrow$  \$5.50  
 2 sets,  
 20 sweets + 10 jellies  $\rightarrow$  \$11  
 6 sweets + 10 jellies  $\rightarrow$  \$6.80

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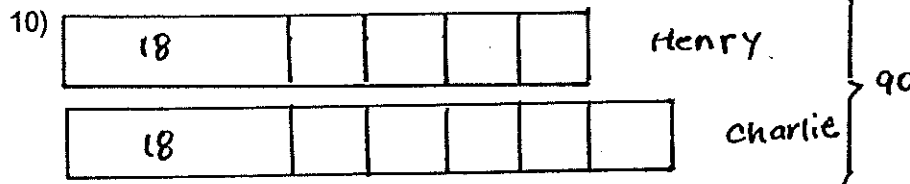
Difference: 14 sweets  $\rightarrow$   $\$11 - \$6.80 = \$4.20$   
 1 sweet  $\rightarrow$   $\$4.20 / 14 = \$0.30$



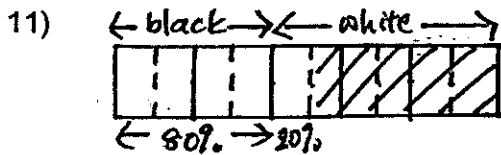
$66 / 8 * 3 = 24.75$  kg = 24kg 750g

8)  $\$12.80 + \$35.80 = \$48.60$   
 $7 - 4 = 3$   
 $\$48.60 / 3 = \$16.20$   
 $\$16.20 * 4 = \$64.80$   
 $\$64.80 + \$12.80 = \$77.60$

9)  $100\% - 62\% = 38\%$   
 $62\% - 38\% = 24\%$   
 $100\% \rightarrow 450$   
 $24\% \rightarrow 24/100 * 450 = 108$  fewer black buttons.

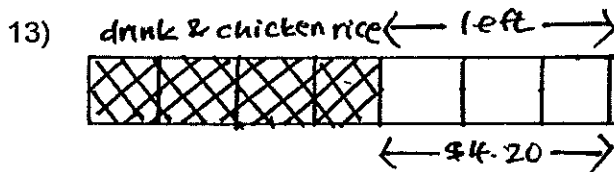


$90 - 18 - 18 = 54$   
 $54 / 9 = 6$   
 $6 * 4 = 24$   
 $24 + 18 = 42$  (Henry)  
 $6 * 5 = 30$   
 $30 + 18 = 48$  (Charlie)  
 $42 : 48$   
 $7 : 8$

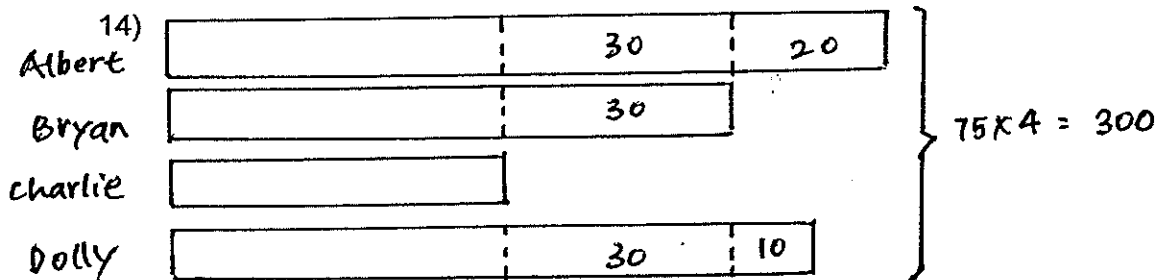


$2/5 \cdot 600 = 240$  (black beads)  
 $600 - 240 = 360$  (white beads)  
 $80\% \rightarrow 240$   
 $20\% \rightarrow 20/80 \cdot 240 = 60$   
 $360 - 60 = 300$  white beads

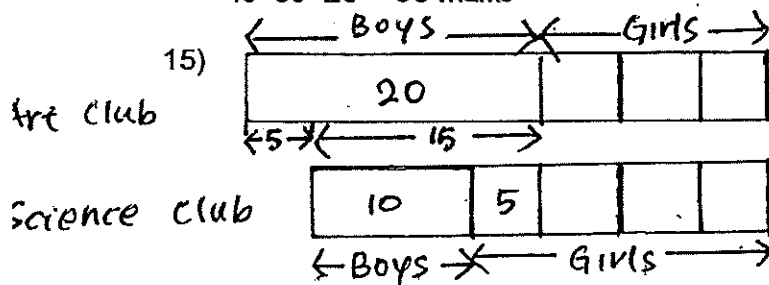
- 12) Angle CDF =  $180 - 50 = 130^\circ$   
 Angle ACG =  $130 - 60 = 70^\circ$   
 a) Angle CAG =  $(180 - 70)/2 = 55^\circ$  (base angle of isosceles triangle)  
 b) Angle CFE =  $50 - 20 = 30^\circ$  (exterior angle of a triangle)



- a)  $3u \rightarrow \$4.20$   
 $4u \rightarrow 4/3 \cdot \$4.20 = \$5.60$   
 $8u \rightarrow \$5.60$   
 $7u \rightarrow 7/8 \cdot \$5.60 = \$4.90$   
 b)  $\$5.60 + \$4.40 = \$10$   
 $5.60/10 = 14/25$

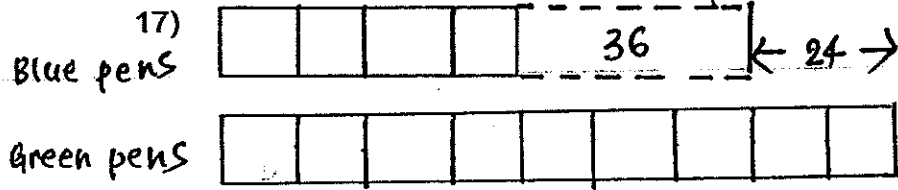


$300 - 40 - 30 - 50 = 180$   
 $180/4 = 45$   
 $45 + 30 + 20 = 95$  marks



$5 \cdot 4 = 20$   
 $20/30 \cdot 100\% = 66.7\%$

16)  $12/3 = 4 \text{ cm}$   
 $12-5 = 7 \text{ cm}$   
 $1/2 * 4 * 7 * 2 * 2 = 56 \text{ cm}^2$   
 $144-56 = 88 \text{ cm}^2$



a)  $36+24 = 60$   
 $9-4 = 5$   
 $60/5 = 12$   
 $12 * 13 = 156 \text{ pens at first}$

b)  $12 * 4 = 48$   
 $48+36 = 84$   
 $12 * 9 = 108$   
 $84 : 108$   
 $7 : 9$

18a) 1 square  $\rightarrow 4+3(0)$  straws  
 2 squares  $\rightarrow 4+3(1)$  straws  
 3 squares  $\rightarrow 4+3(2)$  straws  
 4 squares  $\rightarrow 4+3(3)$  straws  
 .  
 .  
 .  
 13 squares  $\rightarrow 4+3(12) = 40$  straws

b)  $100-4 = 96$   
 $96/3 = 32$   
 $32+1 = 33$  squares



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. The number of people who attended a performance was 6000 when rounded off to the nearest hundred. Which one of the following could the actual number of people be?

- (1) 5928
  - (2) 5969
  - (3) 6051
  - (4) 6978
- 

2. Which one of the following is the same as 5 km 30 m?

- (1) 503 m
  - (2) 530 m
  - (3) 5030 m
  - (4) 5300 m
- 

3. Which one of the following is closest to 1?

- (1)  $\frac{1}{3}$
  - (2)  $\frac{2}{5}$
  - (3)  $1\frac{1}{3}$
  - (4)  $1\frac{2}{5}$
- 

(Go on to the next page)



4. Which of the following has the same value as  $\frac{2}{3} + 4$  ?

(1)  $\frac{2}{3} \times \frac{1}{4}$

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

(3)  $\frac{3}{2} \times \frac{1}{4}$

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

---

5. A box contains some red and blue beads. There are  $\frac{3}{5}$  as many red beads as blue beads in the box. What is the ratio of the number of blue beads to the total number of beads in the box?

(1) 3 : 5

(2) 3 : 8

(3) 5 : 3

(4) 5 : 8

---

6. Find the value of  $(8.4 \times 10) - 20 + 24 + 6$ .

(1) 48

(2) 60

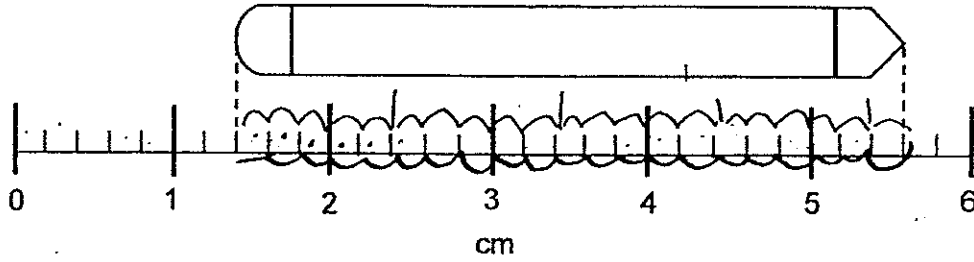
(3) 68

(4) 82

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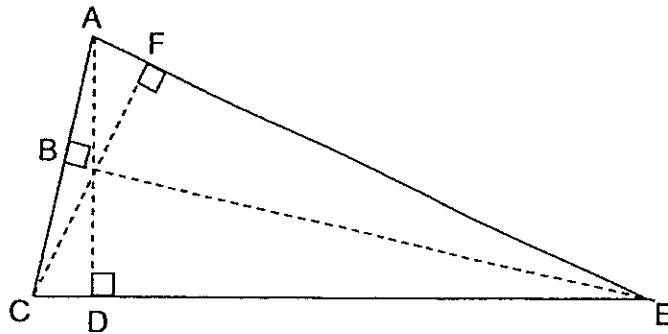
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7. Based on the diagram below, what is the length of the pencil?



- (1) 1.4 cm
- (2) 4.2 cm
- (3) 5.3 cm
- (4) 5.6 cm

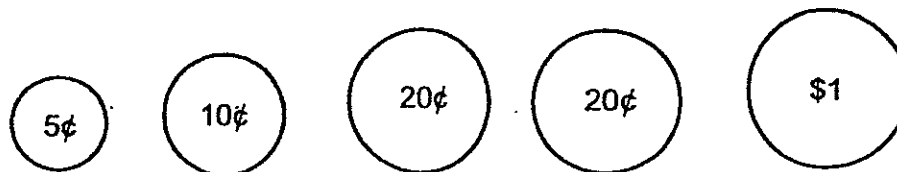
8. Identify the base of triangle ACE, given that BE is the height.



- (1) AE
  - (2) AC
  - (3) CE
  - (4) CF
9. Find the sum of 50 hundredths and 4 thousandths.

- (1) 0.9
- (2) 0.09
- (3) 0.054
- (4) 0.504

10. James had the following coins in his wallet.



He paid for a bowl of noodles with four of the above coins.  
The price of the bowl of noodles was the total value of the four coins.  
Which one of the following could not be the price of the bowl of noodles?

- (1) \$1.25
- (2) \$1.35
- (3) \$1.45
- (4) \$1.50

- 
11. Express 10¢ as a percentage of \$2.

- (1) 0.05%
- (2) 0.2%
- (3) 5%
- (4) 20%

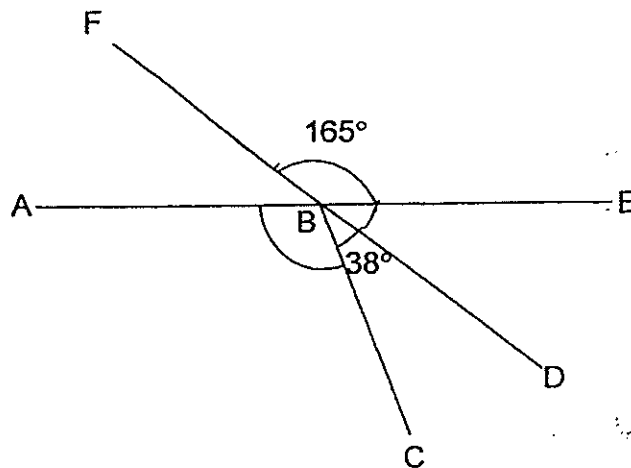
- 
12. Orange syrup is prepared by mixing water and orange concentrate in the ratio 3 : 2. How much water would be needed to prepare 1200 ml of orange syrup?

- (1) 480 ml
- (2) 720 ml
- (3) 1800 ml
- (4) 3600 ml

---

(Go on to the next page)

13. In the figure, ABE and FBD are straight lines. Find  $\angle ABC$ .



- (1)  $127^\circ$   
(2)  $142^\circ$   
(3)  $157^\circ$   
(4)  $195^\circ$
- 
14. Mrs Chan bought 180 marbles. She gave 35% of the marbles to her son and the rest to her daughter. How many marbles did her daughter receive?
- (1) 63  
(2) 65  
(3) 117  
(4) 145
- 
15. Wendy had 420 m of ribbon. She used  $\frac{3}{5}$  of the ribbon and cut the rest into 4 equal pieces. How long is each piece of ribbon?
- (1) 42 m  
(2) 84 m  
(3) 168 m  
(4) 252 m

END OF BOOKLET A



**CATHOLIC HIGH SCHOOL**  
**END-OF-YEAR EXAMINATION 2014**  
**MATHEMATICS**  
**PRIMARY 5**  
**PAPER 1**  
**(BOOKLET B)**

Name : \_\_\_\_\_ (            )

Class: Primary 5 \_\_\_\_\_

Date: 31 October 2014

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 12 printed pages.

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. Write the following in figures.

One million, eight hundred and twenty thousand, one hundred and sixty-eight

\_\_\_\_\_

17. Express 80% as a fraction in the simplest form.

Ans: \_\_\_\_\_

18. Find the missing number in the box.

$$4 : 6 = \boxed{?} : 9$$

Ans: \_\_\_\_\_

(Go on to the next page)

19. The table shows the number of cards a group of children have.

Names	David	Bobby	Mary	Peter
Number of cards	46	20	0	18

Find the average number of cards each child has.

Ans: \_\_\_\_\_

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in this space.

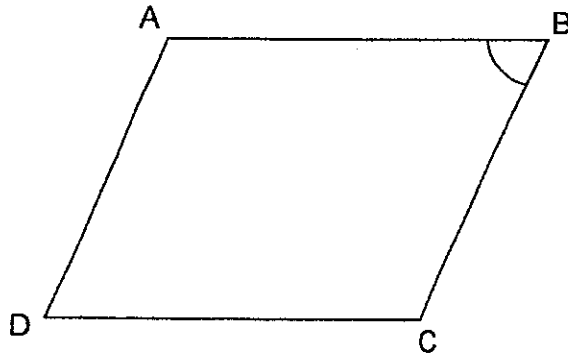
20. Express  $5 + 1000$  as a decimal.

Ans: \_\_\_\_\_

21. Find the value of  $4.5 \times 80$ .

Ans: \_\_\_\_\_

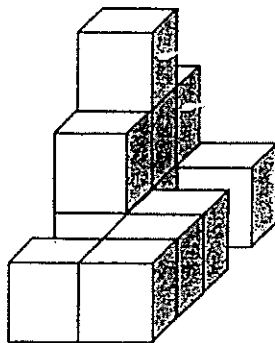
22. Figure ABCD is a parallelogram.  
Mark the angle in the figure that has the same value as  $\angle ABC$ .



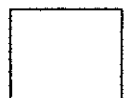
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in this space.



23. A solid is formed by stacking 1-cm unit cubes as shown below.  
What is the volume of the solid?



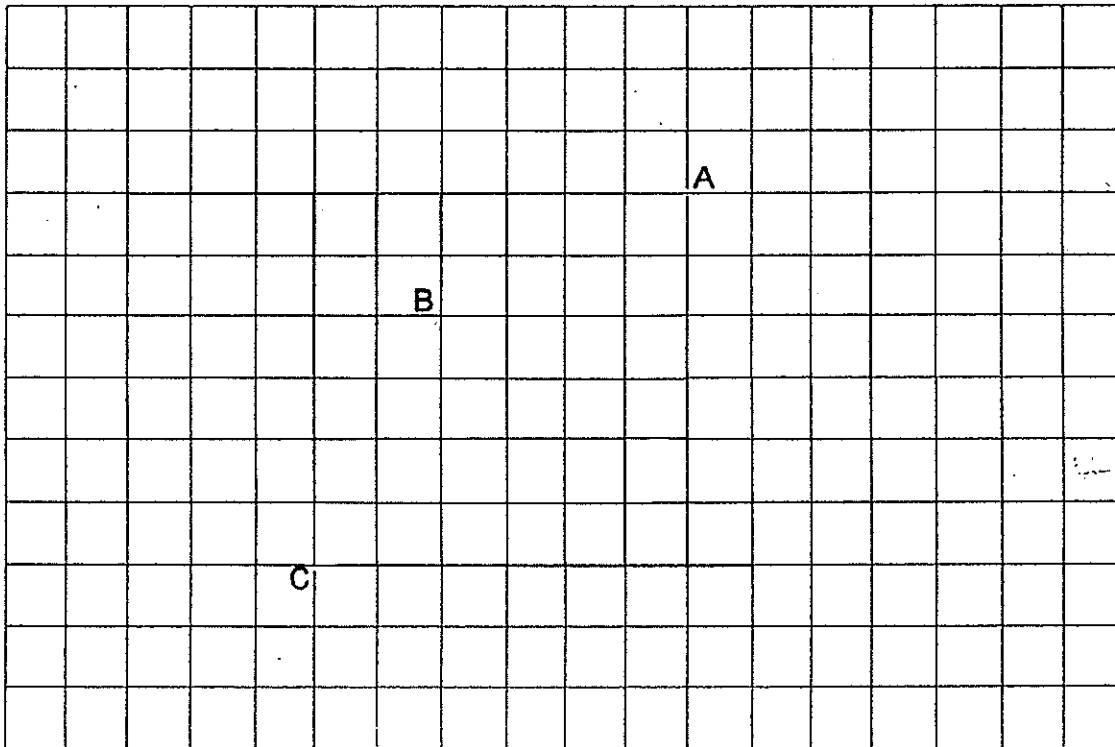
Ans: \_\_\_\_\_ cm<sup>3</sup>





24. AB and BC are two sides of a rhombus. Complete the rhombus by drawing the other two sides in the square grid below.

Do not write  
in this space.



25. Express 5.16 as a mixed number in the simplest form.

Ans: \_\_\_\_\_

Total marks for questions 16 to 25

(Go on to the next page)

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 value of  $4 \div 7$ .  
Express your answer as a decimal correct to 1 decimal place.

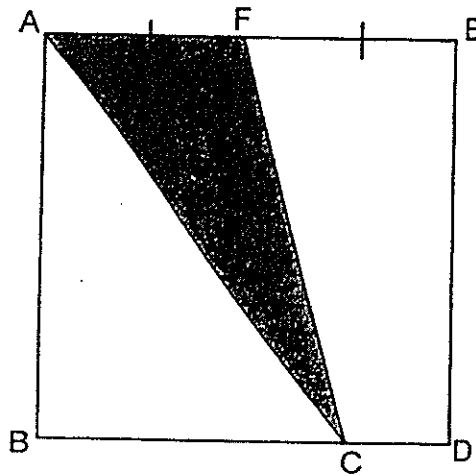
Ans: \_\_\_\_\_

27. At a carnival,  $\frac{1}{4}$  of the people are men and  $\frac{5}{9}$  of the people are women.  
The rest are children. What fraction of the people are children?

Ans: \_\_\_\_\_

(Go on to the next page)

28. The figure below is made up of a square ABDE and triangle ACF. F is at the midpoint of AE. C is a point on BD. The area of square ABDE is  $48 \text{ cm}^2$ . Find the area of triangle ACF.



Do not write  
in this space.

Ans: \_\_\_\_\_  $\text{cm}^2$

29. The number of sweets Serena has is  $\frac{2}{3}$  the number of sweets that Venus has. After Venus gives Serena 45 sweets, both of them have the same number of sweets. How many sweets do the two girls have altogether?

Ans: \_\_\_\_\_

30. Alex, Ben and Cody shared some stickers in the ratio 3 : 4 : 5 at first. After Alex gave away half of his stickers, find the ratio of the number of stickers Alex had to the number of stickers Ben had to the number of stickers Cody had at the end.

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in this space

Ans: \_\_\_\_\_

Total marks for questions 26 to 30

END OF BOOKLET B  
END OF PAPER 1



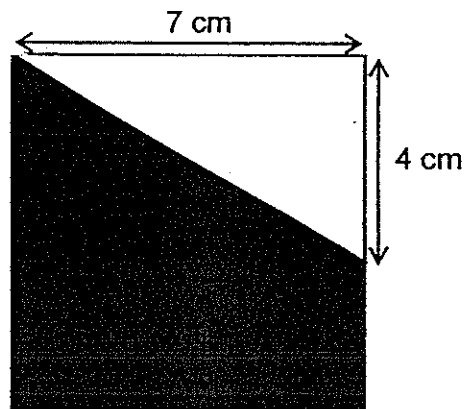
Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. (10 marks)

Do not write in this space.

1.  $\frac{2}{5}$  of Joe's savings is equal to  $\frac{1}{4}$  of Charlie's savings.  
Express Charlie's savings as a fraction of the total savings of the two boys.

Ans: \_\_\_\_\_

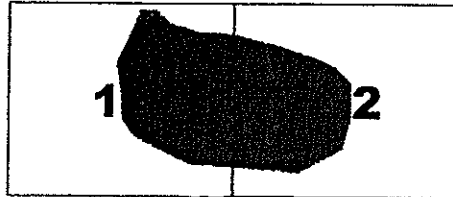
2. The figure below shows an unshaded triangle in a square. Find the area of the shaded part of the figure.



\_\_\_\_\_ cm<sup>2</sup>

(Go on to the next page)

3. Two 2-digit numbers were printed on a slip of paper. The average of the two numbers was 29. A digit of each number was covered by a coffee stain. What was the smaller of the two 2-digit numbers?



Do not write  
in this space.

Ans: \_\_\_\_\_

4. Mrs Lim paid \$78.40 for 2 blouses and 2 skirts. Each skirt cost \$3.20 more than each blouse. How much did each blouse cost?

Ans: \$ \_\_\_\_\_

(Go on to the next page)

5. The mass of a bowl is twice the mass of a cup.  
The total mass of 3 bowls and 2 cups is 1680 g.  
Find the mass of 1 cup.  
Express your answer in kilogram.

Do not write  
in this space.

Ans: \_\_\_\_\_ kg



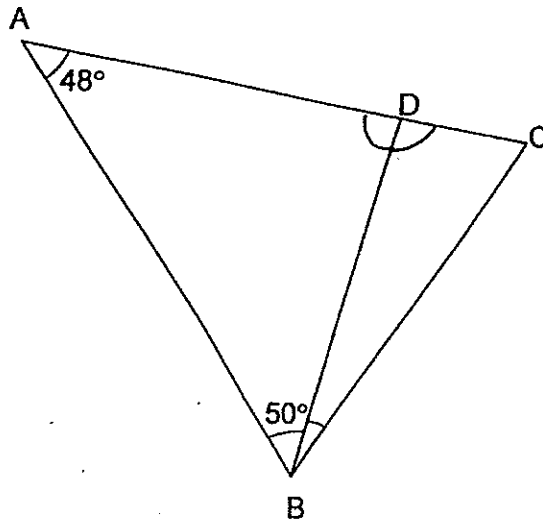
For questions 6 to 18, show your working and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question.

All diagrams are not drawn to scale.

(50 marks)

Do not write  
in this space.

6. ABC is an isosceles triangle. AB is equal to AC. D is a point on AC. Find  $\angle DBC$ .



Ans: \_\_\_\_\_ [3]



7. Jerry and Kelvin had an equal number of marbles at first. Jerry gave away 120 of his marbles and Kelvin bought another 148 marbles. In the end, Kelvin had 5 times as many marbles as Jerry. Find the number of marbles Jerry had at first.

Do not write  
in this space.

Ans: \_\_\_\_\_ [3]

(Go on to the next page)

8. The usual price of a basketball was \$95. Jonathan bought the basketball at a discount of 20%. In addition, he had to pay 7% GST on the discounted price. How much did he pay for the basketball?

Do not write  
in this space.

Ans: \_\_\_\_\_ [3]

(Go on to the next page)

9. Mrs Chew had 2 wooden poles, measuring 35 m and 56 m.  
She cut the poles into smaller pieces of equal length with no remainder.

Do not write  
in this space.

(a) What is the largest possible length of each piece?

(b) How many smaller pieces of wooden poles would she get?

Ans: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [1]

(Go on to the next page)

10. A plastic file costs \$2.20 and a marker costs \$1.20. Carol spent \$20 on some plastic files and markers.  $\frac{1}{5}$  of the items she bought were markers. How many markers did she buy?

Do not write  
in this space.

Ans: \_\_\_\_\_ [3]

(Go on to the next page)

11. 45 children had to make some flowers for fund raising. 3 of them went home and the rest of the children had to make 5 more flowers each. How many flowers were needed for fund raising?

Do not write  
in this space.

Ans: \_\_\_\_\_ [4]

(Go on to the next page)

12. James and Sam had the same amount of money at first.  
James spent all his money buying a notebook and 5 identical pens.  
Sam bought a notebook and a stapler. The stapler cost \$4 more than a pen. Sam had \$16 left after buying the notebook and stapler.

(a) What was the cost of 1 pen?

(b) How much money would Sam have left if he had bought only a notebook?

Do not write  
in this space.

Ans: (a) \_\_\_\_\_ [3]

(b) \_\_\_\_\_ [1]

(Go on to the next page)

13. The following table shows the wages for working on a project.

Do not write  
in this space.

Day	Wages
Mondays to Friday	\$4 per hour
Saturdays and Sundays	\$30 per day
Public holidays	Extra \$10 per day

Zachary worked every day for a week from Monday to Sunday.  
He worked 6 hours per day.

- (a) How many hours did he work in the week?
- (b) How much was he paid for the week if one of the days was a public holiday?

Ans: (a) \_\_\_\_\_ [1]

(b) \_\_\_\_\_ [3]

(Go on to the next page)

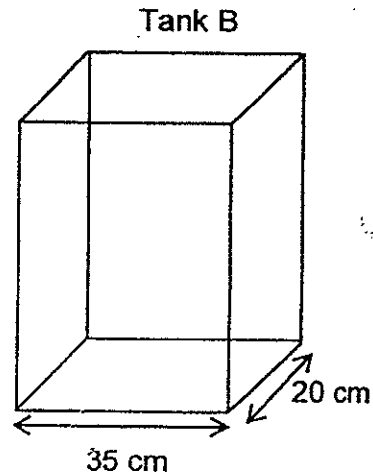
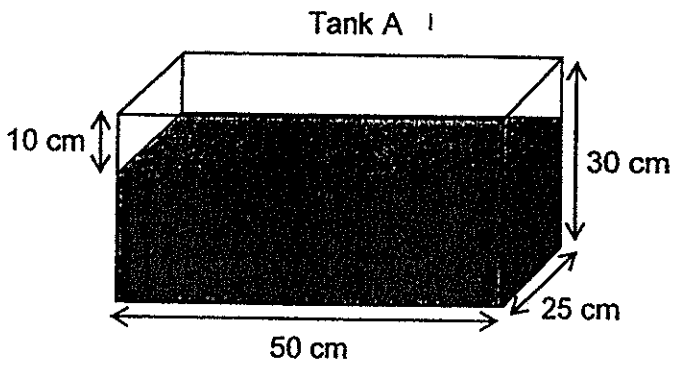


14. Tank A and B are rectangular tanks. Tank A is partially filled with water to a height of 10 cm from the top. The water is then poured into Tank B which is empty.

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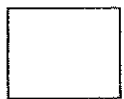
(a) Find the volume of water in Tank A at first.

(b) Find the height of the water level in Tank B after water from Tank A is poured in. Round off the answer to the nearest whole number.



Ans: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [2]



15. Amy, Belle and Cindy baked some muffins together.  
Amy and Belle baked 275 muffins together. Belle and Cindy baked 122  
muffins together. Amy and Cindy baked 235 muffins together.  
How many muffins did Belle bake?

Do not write  
in this space.

Ans: \_\_\_\_\_ [4]

(Go on to the next page)

16. There were some boys and girls at a party. Each boy was given 2 balloons and each girl was given 3 balloons. There were thrice as many girls as boys. In total, the girls received 154 more balloons than the boys.

(a) How many children were there at the party?

(b) What is the total number of balloons given out to the children?

Do not write  
in this space.

Ans: (a) \_\_\_\_\_ [3]

(b) \_\_\_\_\_ [2]

17. Samuel had some carnival tickets to sell. He sold  $\frac{5}{9}$  of them on Monday and  $\frac{1}{8}$  of the remainder on Tuesday. He sold the remaining 98 tickets on Wednesday. Each ticket was sold at \$5 each.

(a) How many tickets were sold on Tuesday?

(b) How much did Samuel collect from the sale of all the tickets?

Do not write  
in this space.

Ans: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [3]

(Go on to the next page)

18. Caleb and Dan had some coins. Caleb had only 50 cent coins and Dan had only 20 cent coins. At first, the number of coins Caleb had was  $\frac{1}{3}$  the number of coins that Dan had. After Dan gave Caleb \$8, Dan had  $\frac{2}{3}$  of his original number of coins left. What was the difference in the amount of money that Caleb and Dan had in the end?

Do not write  
in this space.

Ans: \_\_\_\_\_ [5]

1
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END OF PAPER.  
PLEASE CHECK YOUR WORK CAREFULLY.



EXAM PAPERS 2014

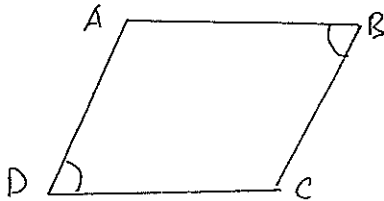
SCHOOL: CATHOLIC HIGH SCHOOL  
SUBJECT: MATHEMATICS  
LEVEL: PRIMARY 5  
TERM: SA 2

PAPER 1 BOOKLET A

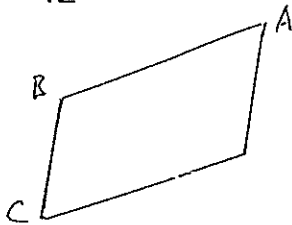
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	3	3	1	4	3	2	2	4	1
Q11	Q12	Q13	Q14	Q15					
3	2	1	3	1					

BOOKLET B

- Q16 1820168  
Q17  $\frac{4}{5}$   
Q18 6  
Q19 21  
Q20 0.005  
Q21 360  
Q22



- Q23 12  
Q24



- Q25  $5\frac{4}{25}$   
Q26 0.6  
Q27  $\frac{7}{36}$   
Q28 12  
Q29 450  
Q30 3:8:10

PAPER 2

- Q1  $\frac{2}{5} = \frac{4}{10} = \frac{8}{20}$   
 $\frac{1}{4} = \frac{5}{20}$   
 $8+5=13$   
 $C=8$   
 $\frac{8}{13}$   
Q2  $\frac{1}{2} \times 7 \times 4 = 14\text{cm}^2$

$$7 \times 7 = 49 \text{ cm}^2$$

$$49 - 14 = 35 \text{ cm}^2$$

The area of the shaded part is  $35 \text{ cm}^2$ .

Q3  $29 \times 2 = 58$

$$58 - 10 = 48 \text{ X}$$

$$58 - 11 = 47 \text{ X}$$

$$58 - 13 = 45 \text{ X}$$

$$58 - 16 = 42 \checkmark$$

The smaller of the two 2-digit numbers is 16.

Q4  $4B = \$78.40 - (\$3.20 \times 2) = \$72$

$$1B = \$72 \div 4 = \$18$$

Each blouse costed \$18.

Q5  $3 \times 2 = 6$

$$6 + 2 = 8$$

$$8 \text{ cup} = 1680 \text{ g}$$

$$1 \text{ cup} = 210 \text{ g} = 0.210 \text{ kg} = 0.21 \text{ kg}$$

1 cup's mass is 0.21 kg.

Q6  $180^\circ - 48^\circ = 132^\circ$

$$132^\circ \div 2 = 66^\circ$$

$$\angle DBC = 66^\circ - 50^\circ = 16^\circ$$

$$\angle DBC \text{ is } 66^\circ$$

Q7  $4u = 120 + 148 = 268$

$$1u = 268 \div 4 = 67$$

$$J \text{ at first} = 67 + 120 = 187$$

Jerry had 187 marbles at first.

Q8  $100\% \text{ U.P.} = \$95$

$$1\% \text{ U.P.} = \$95 \div 100 = \$0.95$$

$$80\% \text{ U.P.} = \$0.95 \times 80 = \$76$$

$$100\% \text{ U.P.} = \$76$$

$$1\% \text{ U.P.} = \$0.76$$

$$7\% \text{ U.P.} = \$5.32$$

$$\$5.32 + \$76 = \$81.32$$

He paid \$81.32 for the basketball.

Q9 a)  $1 \times 35$                        $1 \times 56$

$$5 \times 7$$
                               $2 \times 28$

$$4 \times 14$$

$$7 \times 8$$

The largest possible length of each piece is 7m.

b)  $35 \div 7 = 5$

$$56 \div 7 = 8$$

$$5 + 8 = 13$$

She would get 13 smaller pieces of wooden poles.

Q10  $1 \times \$1.20 = \$1.20$

$$4 \times \$2.20 = \$8.80$$

$$1 \text{ grp} = \$1.20 + \$8.80 = \$10$$

$$\text{No of grps} = \$20 \div \$10 = 2$$

$$2 \times 1 = 2$$

She bought 2 markers.



Q11  $45-3=42$   
 $3\text{boys}=42 \times 5=210$   
 $1\text{boy}=210 \div 3=70$   
 $45\text{boys}=70 \times 45=3150$   
 3150 flowers were needed for fund raising.

Q12 a)  $4p=\$16+\$4=\$20$   
 $1P=\$20 \div 4=\$5$   
 1 pen is \$5  
 b)  $\$5+\$20=\$25$   
 He would be left with \$25.

Q13 a)  $7 \times 6=42\text{hours}$   
 He worked 42 hours in the week.  
 b)  $\text{Mon}=\$4 \times 6=\$24$   
 Mon to Fri=5 days  
 $5 \times \$24=\$120$   
 $\$30 \times 2=\$60$   
 $\$120+\$60=\$180$   
 $4180+\$10=\$190$

Q14 a)  $30\text{cm}-10\text{cm}=20\text{cm}$   
 $\text{Vol}=50\text{cm} \times 25\text{cm} \times 20\text{cm}=25000\text{cm}^3$   
 b)  $25000\text{cm}^3 \div 35\text{cm} \div 20\text{cm} \approx 35.71428571\text{cm} \approx 36\text{cm}$   
 The height of the water level is 36cm.

Q15  $A+B=275$   
 $B+C=122$   
 $A+C=235$   
 A more than B= $235-122=113$   
 $2B=275-113=162$   
 $1B=162 \div 2=81$   
 Belle baked 81 muffins.

Q16 a)  $3 \times 3=9$   
 $9-2=7$   
 $154 \div 7=22$   
 $22 \times 3=66$   
 $66+22=88$   
 There were 88 children at the party.  
 b)  $66 \times 3=198$   
 $22 \times 2=44$   
 $198+44=242$   
 The total number of balloons was 242.

Q17  $\begin{matrix} 5/9 \rightarrow \text{MON} & 1/8 \rightarrow \text{T} \\ \text{T} & & \\ 1/9 \rightarrow \text{R} & 7/8 \rightarrow \text{Wed} & (\$5 \text{ each}) \end{matrix}$   
 a)  $1/8R=98 \div 7=14$   
 He sold 14 tickets on Tuesday.  
 b)  $R=14 \times 8=112$   
 $4/9T=112$   
 $1/9T=112 \div 4=28$   
 $T=28 \times 9=252$

$$252 \times \$5 = \$1260$$

He collected \$1260 from the sale of all the tickets.

Q18

$$1u = 40$$

$$\text{Caleb at first} = 40 \times \$0.50 = \$20$$

$$\text{Dan at first} = 3 \times 40 \times \$0.20 = 24$$

$$\text{Caleb after} = \$20 + \$8 = \$28$$

$$\text{Dan after} = \$24 - \$8 = \$16$$

$$\text{Diff} = \$28 - \$16 = \$12$$

The difference was \$26.

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)



Primary 5

2014 Semestral Assessment Two

Mathematics

Paper 1

Booklet A

28 October 2014

Total Time for Booklets A and B : 50 min

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 7 printed pages including the cover page.*

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. Dora bought a flat. It cost \$740 000 when rounded off to the nearest \$10 000. Which one of the following could be the price she paid for the flat?

1) 734 599

2) 739 405

3) 745 000

4) 745 199

2. Louis and Nikki are 9 and 15 years old respectively. In 3 years' time, what will be the ratio of Louis' age to Nikki's age?

1) 1 : 2

2) 2 : 3

3) 3 : 2

4) 3 : 5

3. Express 0.46 as a percentage.

1) 0.046 %

2) 0.46 %

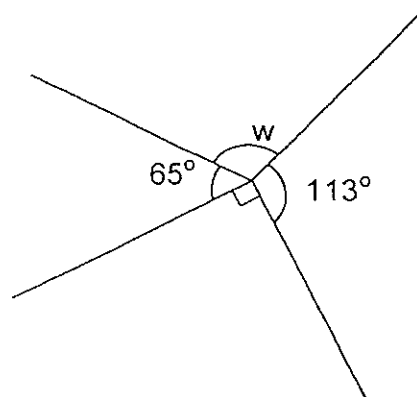
3) 4.6 %

4) 46 %

4. A packet of nuts is repacked into 3 bags. The mass of the first bag is 5.6 kg. The total mass of the second and third bag is 7 kg. Find the average mass of the 3 bags.

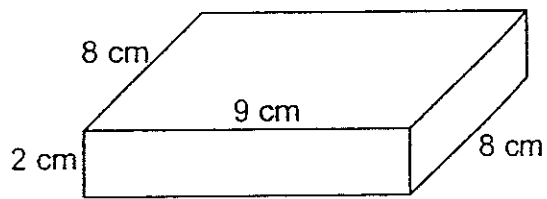
- 1) 4.2 kg
- 2) 9.1 kg
- 3) 12.6 kg
- 4) 19.6 kg

5. The figure below is not drawn to scale. What is  $\angle w$ ?



- 1)  $67^\circ$
- 2)  $90^\circ$
- 3)  $92^\circ$
- 4)  $113^\circ$

6. Find the volume of the box.

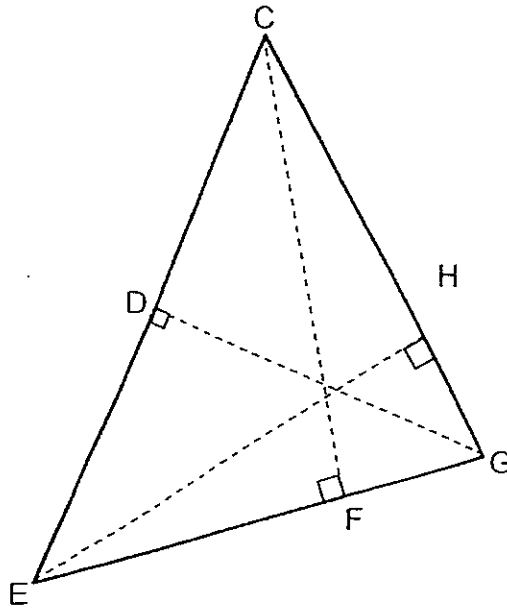


- 1)  $32 \text{ cm}^3$   
2)  $144 \text{ cm}^3$   
3)  $162 \text{ cm}^3$   
4)  $576 \text{ cm}^3$
7. The average amount of water used by Nana and her three sisters is  $84 \text{ l}$  per week. What is the total amount of water used per week?

- 1)  $21 \text{ l}$   
2)  $24 \text{ l}$   
3)  $252 \text{ l}$   
4)  $336 \text{ l}$
8. Find the value of  $12 \div 7$ . Express your answer as a decimal correct to 2 decimal places.

- 1) 0.58  
2) 0.59  
3) 1.71  
4) 1.72

9. Triangle CEG is not drawn to scale. If CG is the base of Triangle CEG, find its height.



- 1) CE
  - 2) DG
  - 3) EH
  - 4) CF
10. What must be added to 28 thousands to make a million?

- 1) 72 000
- 2) 720 000
- 3) 972 000
- 4) 1280 000

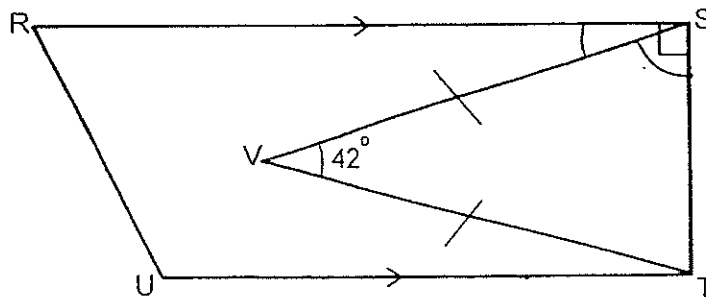
11. How many times in total, does the digit 1 appear between 100 and 120?

- 1) 19
- 2) 21
- 3) 30
- 4) 31

12. Kanping earned \$1200 last month working as a part-time waitress. She saved 20% of her salary and spent 67% of it on food and transportation. The rest of her salary was spent on DVDs. How much did Kanping spend on DVDs?

- 1) \$156
- 2) \$216
- 3) \$336
- 4) \$436

13. The figure, not drawn to scale, shows a trapezium RSTU. Find  $\angle RSV$ .



- 1)  $21^\circ$
- 2)  $42^\circ$
- 3)  $69^\circ$
- 4)  $90^\circ$



14. Which one of the following has the greatest value?

1)  $\frac{3}{5} \times \frac{2}{3}$

2)  $\frac{5}{3} \times \frac{1}{2}$

3)  $\frac{3}{4} \times \frac{2}{3}$

4)  $\frac{4}{3} \times \frac{1}{2}$

15. Leticia collected 20 more pebbles than Lucy. When Lucy gave away 4 of her pebbles, she was left with  $\frac{1}{3}$  of what Leticia had. How many pebbles did Lucy have at first?

1) 8

2) 12

3) 14

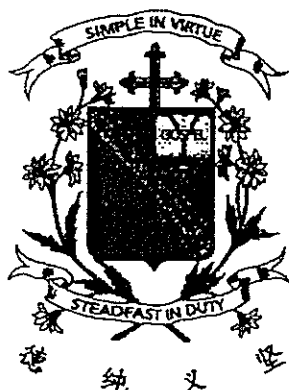
4) 16

\*\* END OF BOOKLET A\*\*

Name :

Class :

**CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)**



Primary 5

**2014 Semestral Assessment Two**

**Mathematics**

**Paper 1**

**Booklet B**

**28 October 2014**

Booklet A	20
Booklet B	20
Total (Paper 1)	40

Total Time for Booklets A and B : 50 min

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.

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

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16. Find the value of  $380 + 180 \div 3 \times (27 - 24)$ .

Ans : \_\_\_\_\_

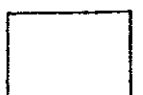
17. Express 170.01 l in l and ml.

Ans : \_\_\_\_\_ l \_\_\_\_\_ ml

18. What is the missing number in the box?

$$2 - 1\frac{4}{10} = \frac{\square}{5}$$

Ans : \_\_\_\_\_



Do not  
write in  
this space

19. Moy and Yusof collected a total of 121 ice-cream sticks in the ratio 2 : 9. Yusof collected three times as many ice cream sticks as Izam. How many ice cream sticks did Izam collect?

Ans : \_\_\_\_\_

20. Find the value of  $\frac{11}{4} \div \frac{3}{4}$ .

Express your answer as a mixed number.

Ans : \_\_\_\_\_

21. The usual price of a dining table was \$600. Jonas bought the table at a discount of 15%. How much did he pay for the dining table?

Ans : \$ \_\_\_\_\_

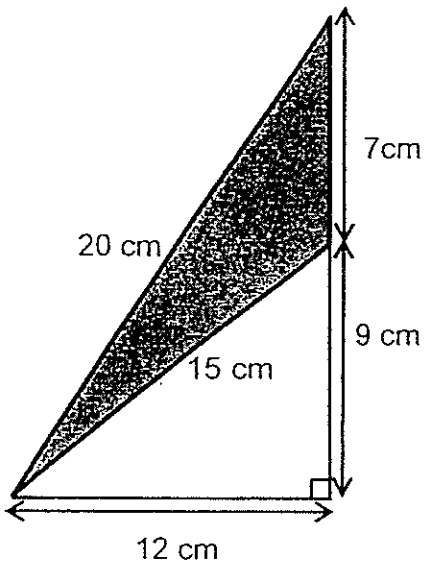


22. Lois bought 30 protractors at \$1.05 each for her pupils. She received a change of \$68.50 from the cashier after paying for the protractors. How much did she pay the cashier?

Do not write in this space

Ans : \$ \_\_\_\_\_

23. The figure below is not drawn to scale. Find the area of the shaded triangle.



Ans : \_\_\_\_\_ cm<sup>2</sup>



24. Muthu made some toy animals using clay.  $\frac{3}{8}$  of them were dogs and  $\frac{3}{5}$  of the remainder were pandas. The rest were bears. What fraction of the toy animals were bears? Express your answer in the simplest form.

Do not write in this space

Ans : \_\_\_\_\_

25. 12 out of the 40 mangoes in a crate are rotten. The rest are not rotten. What percentage of the mangoes are not rotten?

Ans : \_\_\_\_\_ %



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)

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26. A total of 220 children queued up for a bumper ride. There were at least 5 boys between any 2 girls. What is the largest possible number of girls in the queue?

Ans : \_\_\_\_\_

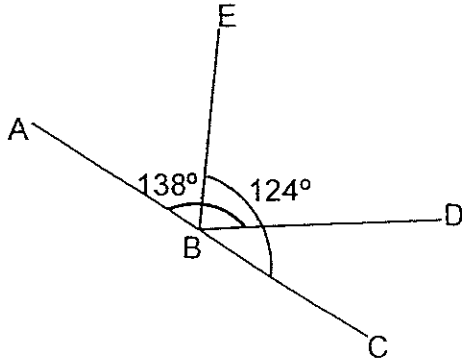
27. The total height of 5 buildings is 745 m. One of the buildings is 69 m tall. What is the average height of the remaining buildings?

Ans : \_\_\_\_\_ m



28. The figure below is not drawn to scale. ABC is a straight line.  $\angle ABD = 138^\circ$  and  $\angle EBC = 124^\circ$ . Find  $\angle EBD$ .

Do not write in this space



Ans : \_\_\_\_\_<sup>o</sup>

29. Serena spent 5 days making teddy bears for her classmates. Each day, she made 2 more teddy bears than the day before. At the end of the 5 days, she made a total of 35 teddy bears. How many teddy bears did she make on the fifth day?

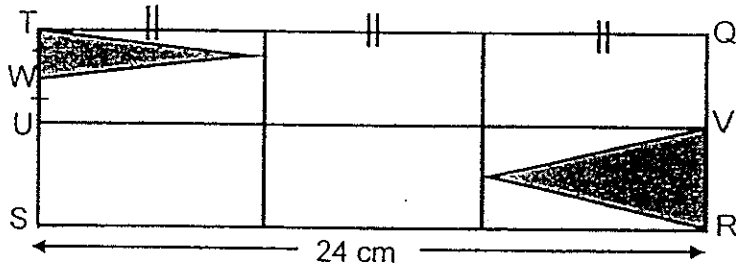
Ans : \_\_\_\_\_



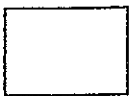


30. The figure below, not drawn to scale, shows a rectangle QRST. The length of TQ is three times the length of QR. Both U and V are midpoints of TS and QR respectively. ~~TW = WU.~~ TW = WU. What is the area of the unshaded parts of the figure? Express your answer in the simplest form.

Do not write in this space



Ans : \_\_\_\_\_ cm<sup>2</sup>

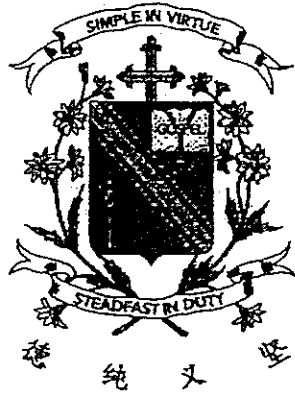


\*\*END OF PAPER 1\*\*

Name

Class :

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)



Primary 5

2014 Semestral Assessment Two

Mathematics

Paper 2

28 October 2014

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 15 printed pages including the cover page.*

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.

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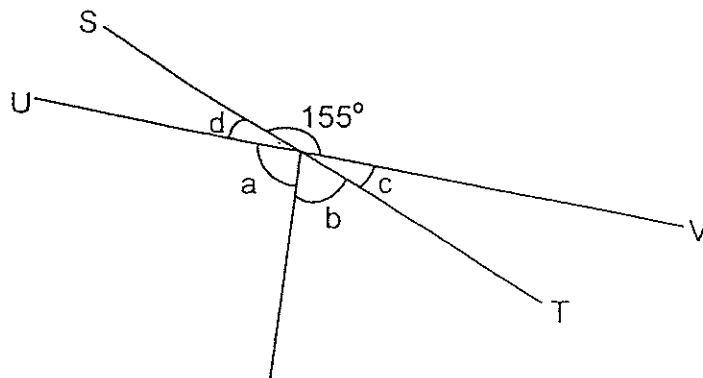
(10 marks)

1. A number contains 6 digits.  
The digit in the tens place is the greatest 1-digit number.  
The digit in the thousands place is half of the digit in the hundreds place.  
There are 2 zeros in the number.  
One of the zeros is next to the digit 6 which has a value of 600 000.

Write down any 2 possible numbers.

Ans : \_\_\_\_\_, \_\_\_\_\_

2. The figure below is not drawn to scale. ST and UV are straight lines. The ratio of  $\angle a$  to  $\angle b$  is 3 : 2. Find the difference between  $\angle a$  and  $\angle c$ .



Ans : \_\_\_\_\_ °



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3. The 2 figures below are made up of 2-cm cubes.

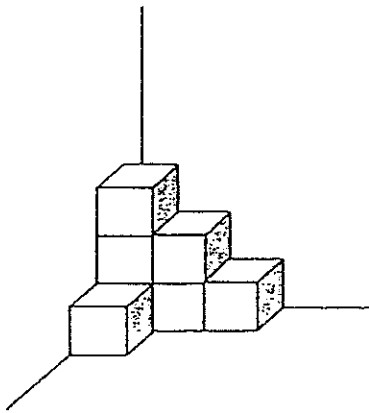


Figure S 7

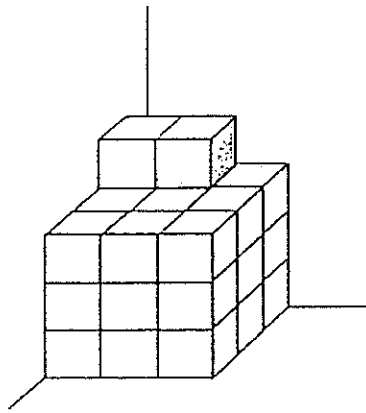


Figure T 29

Find the difference between the volumes of Figure S and Figure T.

Ans : \_\_\_\_\_  $\text{cm}^3$

4. The price of the ribbon sold in a handicraft shop is shown in the table below.

First 2 metres	80 ¢ per metre
Every additional $\frac{1}{2}$ metre	35 ¢

Setia bought 5.5 m of ribbon from the shop. How much did she pay?

Ans . \$ \_\_\_\_\_



5. Marvin and Lydia have \$2613 altogether. Lydia has  $\frac{5}{8}$  of what Marvin has.  
How much money does Marvin have?

Ans : \$ \_\_\_\_\_



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. A group of boys shared some game cards among themselves. They tried to share by taking 16 cards each. However, the last boy had only 12 cards. If the boys decided to take 14 cards each, there would be 6 cards leftover. How many cards were there altogether?

Ans : \_\_\_\_\_ [3m]

7. 45% of the pupils in Happy Smile Kindergarten are boys. 40% of the boys and  $\frac{1}{5}$  of the girls are taking part in the year end concert. What percentage of the children in the kindergarten are taking part in the year end concert?

Ans : \_\_\_\_\_ [3m]



8. The table below shows the number of bicycles Cool Bike Shop sold over a period of 5 months in 2013.

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Month	May	June	July	August	September
Number of bicycles sold	250	?	400	275	675

- (a) The ratio of the number of bicycles sold in May to the number of bicycles sold in May and June is 5 : 17. How many bicycles were sold in June?
- (b) From October to December in the same year, the shop sold 26% of what was sold in June. Find the average number of bicycles sold from October to December.

Ans : (a) \_\_\_\_\_ [1m]

(b) \_\_\_\_\_ [2m]



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9. A rectangular container has a square base of side 7 cm. The length of the container is  $\frac{1}{3}$  of its height. Find the volume of the container.

Ans : \_\_\_\_\_ [3m]

10. Loha bought  $3\frac{1}{5}$  kg of flour to bake a lemon cake and some cookies for a party. She used  $\frac{1}{4}$  of the flour to bake the lemon cake and  $\frac{3}{5}$  of the remaining flour to bake the cookies. How much flour did she have left?

Ans : \_\_\_\_\_ [3m]





11. During the Great Singapore Sale, ACE Electric City offered the following promotion:

Buy any **2** items, LESS 15%  
AND  
Buy the **3<sup>rd</sup>** item at LESS 50%.  
(This item has to be of the lowest value  
amongst the three items bought.)

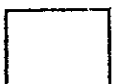
Ginnie bought a washing machine, a microwave oven and a television set.  
The selling prices of the three items are given in the table below.

<u>SALE ! BUY NOW !!</u>		
Washing machine ---	\$1099	\$899
Microwave oven -----	\$899	\$799
Television set -----	\$1299	\$990

How much did she spend in all?

Ans : \_\_\_\_\_ [4m]

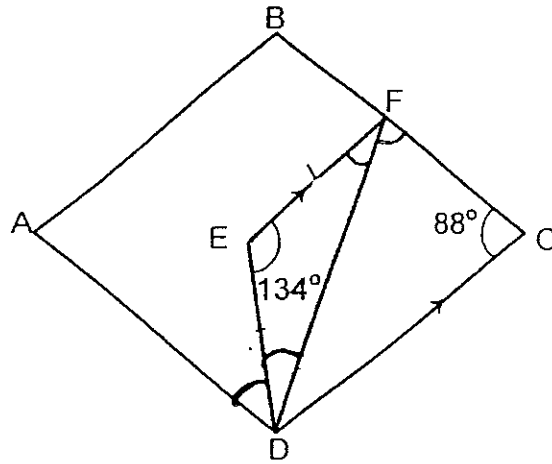
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12 The figure below is not drawn to scale. ABCD is a rhombus.  $DE = EF$  and  $EF$  is parallel to  $DC$ . Find

Do not write in this space

- (a)  $\angle EDF$
- (b)  $\angle ADE$



Ans : (a) \_\_\_\_\_ [2m]

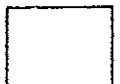
(b) \_\_\_\_\_ [2m]



13. Kimura had some badges. He gave  $\frac{1}{6}$  of them to Ming Teck and  $\frac{3}{11}$  of the remaining badges to Harold. Then his mother bought him another 182 badges. In the end, he had as many badges as he had at first. How many badges did he have at first?

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space

Ans : \_\_\_\_\_ [4m]



14. A total of 1936 children and adults attended a carnival. There were 318 girls and 498 women. The number of children to the number of adults is in the ratio 3 : 5.

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space

a) How many men were there at the carnival?

b) What percentage of the people at the carnival were males? Leave your answer correct to the nearest per cent.

Ans : a) \_\_\_\_\_ [2m]

b) \_\_\_\_\_ [3m]



15. Linden had 29 more fifty-cent coins than ten-cent coins. After he had used 37 fifty-cent coins, the value of the fifty-cent coins was \$3.20 more than the value of the ten-cent coins. How many fifty-cent coins and ten-cent coins did he have at first?

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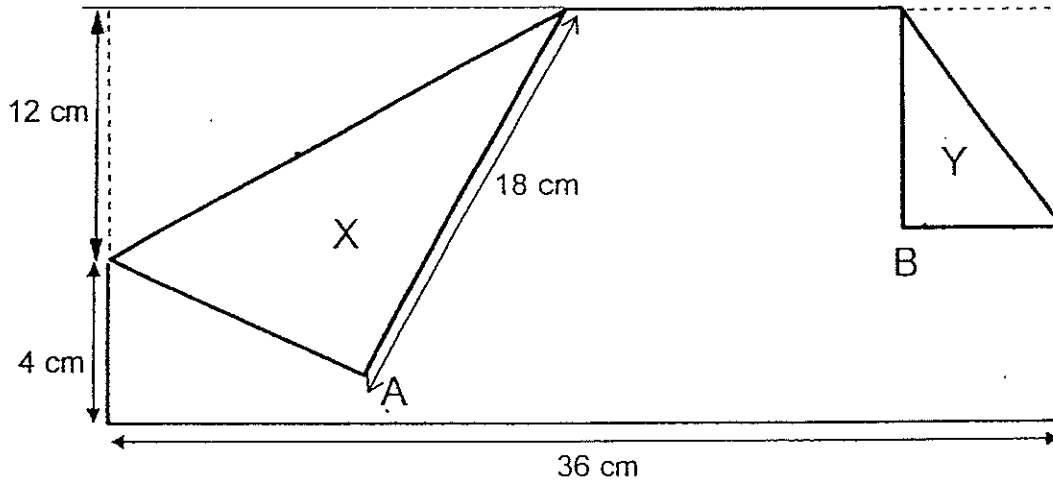
Ans : Fifty-cent coins → \_\_\_\_\_

Ten-cent coins → \_\_\_\_\_ [4m]

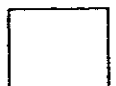


16. The figure below shows a rectangular piece of paper with two folded corners, A and B. The area of Y is  $\frac{1}{4}$  the area of X. What is the ratio of the area of X to the area of Y to the area of the rectangular piece of paper before it is folded?

Do not write in this space



Ans : \_\_\_\_\_ [4m]



17. Luna wanted to buy a computer. The computer cost \$3850. The shop offered two modes of payment, as shown in the table below.

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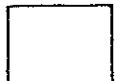
Mode of Payment	
Payment A - By cash	Payment B - By instalment
Pay cash in full and receive 12 % discount	Pay \$331 monthly for a year, and 7.5 % on original price of the computer as down payment

- (a) If Luna opted for Payment A, what was the discounted price of the computer?
- (b) Which plan, Payment A or Payment B, will help Luna to save more money ? How much money would she save ?

Ans : a) \_\_\_\_\_ [1m]

b) Payment \_\_\_\_\_ [1m]

\_\_\_\_\_ [3m]



18. A courier service company charged \$12 for the delivery of big parcels and \$7 for small parcels. In September, the courier service company received \$12 495.

The number of big parcels delivered was  $\frac{7}{9}$  of the number of small parcels delivered.

- (a) How many small parcels did the company deliver?
- (b) Find the difference in the amount of money received from the delivery of big parcels and small parcels.

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write in this  
space

Ans : a) \_\_\_\_\_ [3m]

b) \_\_\_\_\_ [2m]



**\*\* END OF PAPER \*\***



## Exam Paper 2014 Answer Sheet

School: CHIJ ST NICHOLAS GIRLS' SCHOOL

Subject: PRIMARY 5 MATHEMATICS

Term: SA2

### Paper 1

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

16. 560

17. 170litres 10ml

18.  $\frac{3}{5}$

19. 33

20.  $3\frac{2}{3}$

21. 510

22. 100

23. 42

24.  $\frac{1}{4}$

25. 70

26. 1grp  $\rightarrow 5B + 1G = 6$  children

No. of grp  $\rightarrow 220 \div 6 = 36r4$

No. of girls  $\rightarrow 36 + 1 = 37$

27. Total remaining heights  $\rightarrow 745 - 69 = 676$

Average  $\rightarrow 676 \div 4 = 169$

28.  $138 + 124 = 262$

$262 - 180 = 82$

29.  $5u \rightarrow 35 - (2 \times 10) = 15$

$1u \rightarrow 3$

5<sup>th</sup> day  $\rightarrow 3 + 2 + 2 + 2 + 2 = 11$

30. TQ  $\rightarrow 24$

QR  $\rightarrow 24 \div 3 = 8$

VR  $\rightarrow 8 \div 2 = 4$

TW  $\rightarrow 4 \div 2 = 2$

Area of A  $\rightarrow \frac{1}{2} \times 2 \times 8 = 8$

Area of B  $\rightarrow \frac{1}{2} \times 4 \times 8 = 16$

Total area  $\rightarrow 24 \times 8 = 192$



Unshaded  $\rightarrow 192 - 8 - 16 = 168$

## Paper 2

1. **603690, 602490**
2.  $5u \rightarrow 155$   
Angle a  $\rightarrow (3 \times 155) \div 5 = 93$   
Angle c  $\rightarrow 180 - 155 = 25$   
 $93 - 25 = 68$
3. 1 cube  $\rightarrow 2 \times 2 \times 2 = 8$   
Diff  $\rightarrow 29 - 7 = 22$   
22 cubes  $\rightarrow 8 \times 22 = 176$
4.  $2m \rightarrow 0.80 \times 2 = 1.60$   
Remaining  $\rightarrow 5.5 - 2 = 3.5$   
 $3.5 \div 0.5 = 7$   
 $7 \times 0.35 = 2.45$   
Total paid  $\rightarrow 2.45 + 1.60 = 4.05$
5.  $13u \rightarrow 2613$   
Marvin  $\rightarrow (8 \times 2613) \div 13 = 1608$
6.  $16c + 12 = 14c + 14 \times 1 + 6$   
 $16c + 12 = 14c + 20$   
 $16c - 14c = 8$   
 $1c = 4$   
No. of cards  $\rightarrow (16 \times 4) + 12 = 76$
7. Taking part  $\rightarrow (18 + 11) \div 100 = 29\%$
8. (a) June  $\rightarrow 17u - 5u = 12u$   
 $5u \rightarrow 250$   
 $12u \rightarrow 600$  bicycles  
(b) Oct to Dec  $\rightarrow (26 \div 100) \times 600 = 156$   
Oct to Dec  $\rightarrow 3$  months  
Average  $\rightarrow 156 \div 3 = 52$  bicycles
9. Length  $\rightarrow 7\text{cm}$   
Height  $\rightarrow 7 \times 3 = 21\text{cm}$   
Volume  $\rightarrow 7 \times 7 \times 21 = 1029\text{cm}^3$
10.  $1 - \frac{1}{4} = \frac{3}{4}$   
Flour after LC  $\rightarrow \frac{3}{4} \times 3\frac{1}{5} = 2\frac{2}{5}\text{kg}$   
 $1 - \frac{3}{5} = \frac{2}{5}$   
Flour left  $\rightarrow \frac{2}{5} \times 2\frac{2}{5} = 2\frac{4}{25}\text{kg}$
11. Total of WM and TV  $\rightarrow 899 + 990 = \$1889$   
After disc.  $\rightarrow \frac{85}{100} \times 1889 = \$1605.65$   
MO  $\rightarrow \frac{50}{100} \times 799 = \$399.50$   
Total  $\rightarrow 1605.65 + 399.50 = \$2005.15$



12. (a) Angle EDF  $\rightarrow (180 - 134) \div 2 = 23^\circ$

(b) Angle EFC  $\rightarrow 180 - 88 = 92$

Angle FDA  $\rightarrow 92 - 23 = 69$

Angle ADE  $\rightarrow 69 - 23 = 46^\circ$

13.  $\frac{5}{6} = \frac{55}{66}$

$\frac{3}{11} = \frac{15}{55}$

Ming Teck  $\rightarrow \frac{11}{66}$  badges

Harold  $\rightarrow \frac{15}{55}$  of remaining badges

Gave away  $\rightarrow 11u + 15u = 26u$

$26u \rightarrow 182$

$66u \rightarrow 462$

14. C : A : Total

3 : 5 : 8

(a) Adults  $\rightarrow (5 \times 1936) \div 8 = 1210$

Men  $\rightarrow 1210 - 498 = 712$

(b) Children  $\rightarrow (3 \times 1936) \div 8 = 726$

Boys  $\rightarrow 726 - 318 = 408$

Males  $\rightarrow 408 + 712 = 1120$

$(1120 \div 1936) \times 100\% = 58\%$

15. Try an error method

$18 \times \$0.10 = \$1.80$

$47 \times \$0.50 = \$23.50$

16. Area of X  $\rightarrow \frac{1}{2} \times 12 \times 18 = 108$

Area of Y  $\rightarrow 108 \div 4 = 27$

Area of paper  $\rightarrow 36 \times (12 + 4) = 576$

X : Y : Area of paper

108 : 27 : 576

**12 : 3 : 64**

17. (a)  $100\% - 12\% = 88\%$

$\frac{88}{100} \times 3850 = \$3388$

(b) Payment B: DP  $\rightarrow \frac{7.5}{100} \times 3850 = 288.75$

12mths  $\rightarrow 331 \times 12 = 3972$

Payment B  $\rightarrow 3972 + 288.75 = \$4260.75$

Save  $\rightarrow \$4260.75 - \$3388 = \$872.75$

**Payment A**

18. (a) 1grp (7B + 9S)  $\rightarrow (7 \times \$12) + (9 \times \$7) = \$147$

No. of grp  $\rightarrow 12495 \div 147 = 85$

No. of small parcels  $\rightarrow 85 \times 9 = 765$

(b) No. of big parcels  $\rightarrow 85 \times 7 = 595$

Amt for big parcels  $\rightarrow 12 \times 595 = 7140$

Amt of small parcels  $\rightarrow 7 \times 765 = 5355$

Diff  $\rightarrow \$7140 - \$5355 = \$1785$





HENRY PARK PRIMARY SCHOOL  
2014 SEMESTRAL EXAMINATION 2  
MATHEMATICS  
PRIMARY 5

PAPER 1  
(BOOKLET A)

Name: \_\_\_\_\_ (     )

Parent's Signature

Class: Primary 5 \_\_\_\_\_

\_\_\_\_\_

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.

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. \$27 668 was collected in a donation drive.  
Round off \$27 668 to the nearest thousand.

- (1) \$27 000
- (2) \$27 600
- (3) \$27 700
- (4) \$28 000

( )

2. Find the value of  $80 - 40 \div 5 \times 8$ .

- (1) 1
- (2) 16
- (3) 64
- (4) 79

( )

3. Which of the following is the same as 7 km 5 m?

- (1) 705 m
- (2) 7005 m
- (3) 7050 m
- (4) 7500 m

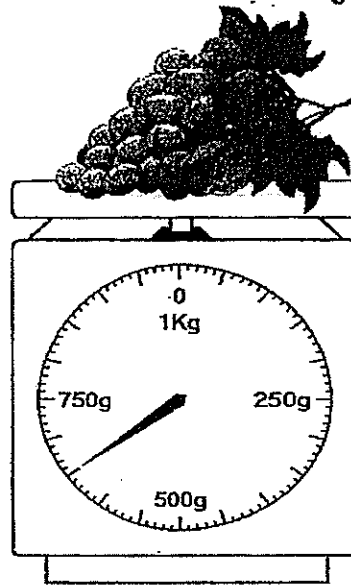
( )

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4. What is the mass of the bunch of grapes as shown on the weighing scale in the figure?

- (1) 550 g
- (2) 600 g
- (3) 650 g
- (4) 700 g



( )

5. How many quarters are there in  $3\frac{1}{2}$ ?

- (1) 2
- (2) 7
- (3) 12
- (4) 14

( )

6. What is the value of 2 hundreds, 7 tenths and 3 thousandths?

- (1) 270.003
- (2) 200.730
- (3) 200.703
- (4) 200.073

( )

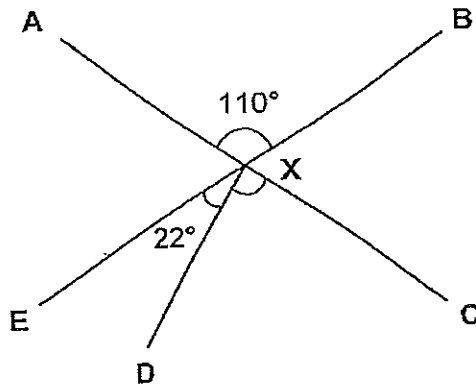
(Go on to the next page)

7. 4.8 kg of sugar was needed to bake 300 cookies. How much sugar was needed to bake one cookie?

- (1) 0.016 g
- (2) 0.16 g
- (3) 1.6 g
- (4) 16 g

( )

8. In the figure,  $AXC$  and  $BXE$  are straight lines.  
 $\angle AXB = 110^\circ$  and  $\angle EXD = 22^\circ$ , find  $\angle DXC$ .



- (1)  $68^\circ$
- (2)  $70^\circ$
- (3)  $78^\circ$
- (4)  $88^\circ$

( )

(Go on to the next page)

9. The ratio of the number of girls to the number of boys in class 5E is 2 : 5. Given that there are 42 children altogether, how many more boys than girls are there in the class?

- (1) 6
- (2) 12
- (3) 18
- (4) 30

( )

10. Miss Ng bought a box of 25 muffins. 11 of them were chocolate muffins and the rest were blueberry muffins. What percentage of the muffins were blueberry muffins?

- (1) 11%
- (2) 14%
- (3) 44%
- (4) 56%

( )

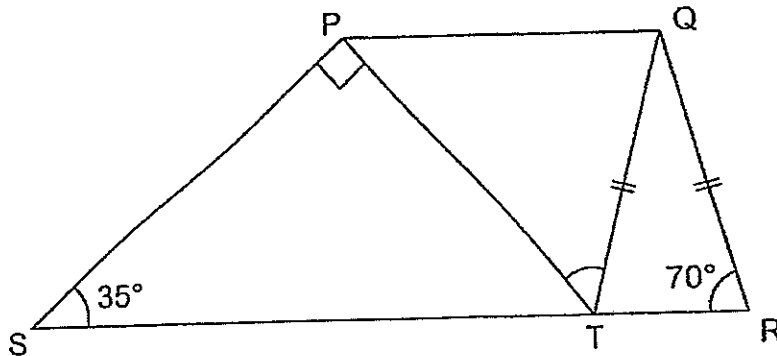
11. Jessica bought 9.25 m of ribbon. She used 0.355 m of ribbon to tie a gift box. How much ribbon was left after tying 20 such gift boxes?

- (1) 0.71 m
- (2) 2.15 m
- (3) 7.10 m
- (4) 8.54 m

( )

(Go on to the next page)

12. In the figure below, PQRS is a trapezium and  $QR = QT$ .  
Find  $\angle PTQ$ .



- (1)  $35^\circ$   
 (2)  $40^\circ$   
 (3)  $55^\circ$   
 (4)  $60^\circ$

( )

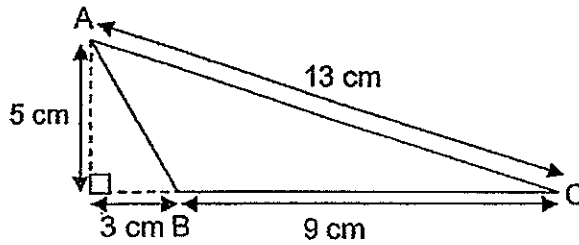
13.  $10 : \boxed{?} : 14 = 15 : 6 : 21$ .  
What is the missing number in the box?

- (1) 0  
 (2) 2  
 (3) 3  
 (4) 4

( )

(Go on to the next page)

14. What is the area of triangle ABC as shown in the figure?



- (1)  $22.5 \text{ cm}^2$
- (2)  $30 \text{ cm}^2$
- (3)  $32.5 \text{ cm}^2$
- (4)  $58.5 \text{ cm}^2$

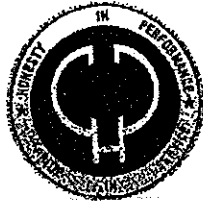
( )

15. At a fruit stall,  $\frac{2}{5}$  of the number of mangoes is the same as  $\frac{1}{4}$  of the number of pears. What fraction of the fruits are mangoes?

- (1)  $\frac{5}{8}$
- (2)  $\frac{5}{9}$
- (3)  $\frac{5}{13}$
- (4)  $\frac{8}{13}$

( )

(Go on to Booklet B)

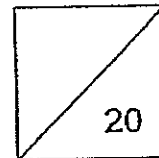


HENRY PARK PRIMARY SCHOOL  
2014 SEMESTRAL EXAMINATION 2  
MATHEMATICS  
PRIMARY 5

PAPER 1  
(BOOKLET B)

Name: \_\_\_\_\_ (     )

Class: Primary 5 \_\_\_\_\_



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.

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. Write nine hundred and two thousand, two hundred and three in numerals.

Do not  
write in  
this space

Ans: \_\_\_\_\_

17. A jug contains 1.25 litres of milk. Wayne pours 350 ml of milk from the jug into a cup. How much milk is left in the jug? Leave your answer in millilitres.

Ans: \_\_\_\_\_ ml

(Go on to the next page)



18.  $\frac{1}{2}$  kg of rice is packed equally into 4 bags. How much rice is there in each bag?

Do not  
write in  
this space

Ans: \_\_\_\_\_ kg

19. A number has 3 decimal places. When it is rounded off to the nearest hundredth, it is 1.07. What is the greatest possible value of the number?

Ans: \_\_\_\_\_

(Go on to the next page)



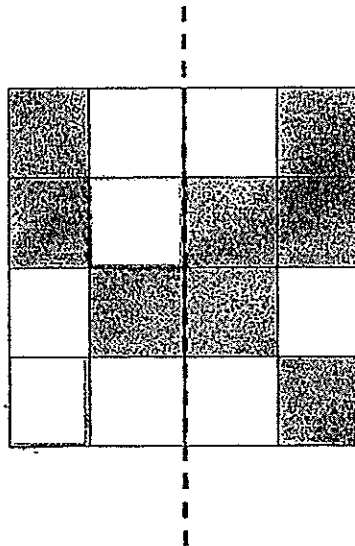


20. A coil of rope was cut equally into 600 pieces. Each piece of rope measured 13.5 cm. What was the original length of the coil of rope in metres?

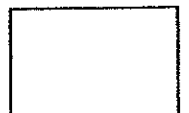
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Ans: \_\_\_\_\_ m

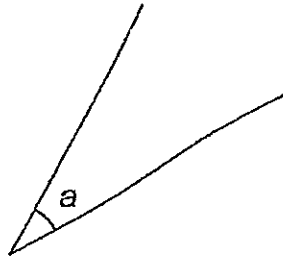
21. The figure below is made up of squares. Shade two more squares so that the dotted line is a line of symmetry.



(Go on to the next page)

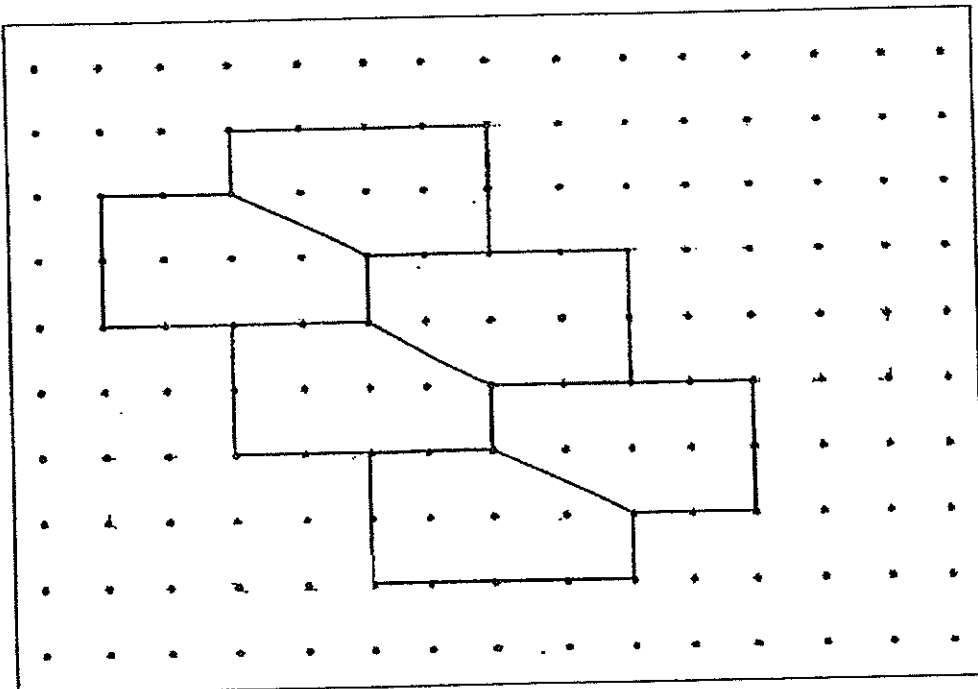


22. Measure  $\angle a$ .



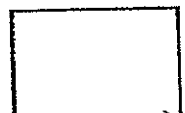
Ans: \_\_\_\_\_<sup>o</sup>

23. 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.



(Go on to the next page)

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24. Mr Chua drove 1715 km in 7 days. What was the average distance he drove per day?

Do not  
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Ans: \_\_\_\_\_ km

25. The ratio of the Reina's savings to Samantha's savings is 3 : 4. The ratio of Samantha's savings to Tina's savings is 4 : 7. What is the ratio of Reina's savings to Tina's savings?

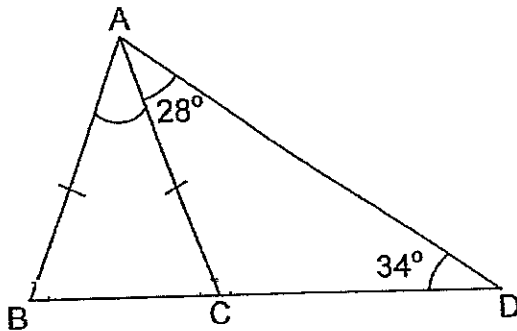
Ans: \_\_\_\_\_

(Go on to the next page)



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, ABC is an isosceles triangle.  
 $\angle CAD = 28^\circ$  and  $\angle ADC = 34^\circ$ . Find  $\angle BAC$ .



Ans: \_\_\_\_\_<sup>o</sup>

27. A school bus can take a maximum of 40 people in a trip. There are 350 students and 18 teachers going for a CCA trip. What is the minimum number of buses that must be booked?

Ans: \_\_\_\_\_

(Go on to the next page)

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this space



28. Mr Tan saves 14% of his salary each month. He saves \$420 each month.  
How much is Mr Tan's monthly salary?

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this space

Ans: \$ \_\_\_\_\_

29. Ken had  $\frac{5}{9}$  as much money as Larry. Ken spent  $\frac{3}{5}$  of his money and  
Larry spent twice as much as Ken. What fraction of Larry's money was  
left? Give your answer as a fraction in its simplest form.

Ans: \_\_\_\_\_

(Go on to the next page)



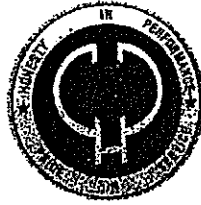
30. Mrs Fields had an equal mass of flour and sugar at first. After she used 33.2 kg of sugar, the mass of flour became 6 times as much as the mass of sugar left. What was the mass of sugar left?

Do not  
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Ans: \_\_\_\_\_ kg

End of Paper 1



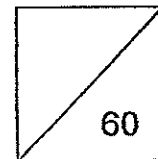


HENRY PARK PRIMARY SCHOOL  
2014 SEMESTRAL EXAMINATION 2  
MATHEMATICS  
PRIMARY 5

PAPER 2

Name: \_\_\_\_\_ (    )

Class: Primary 5 \_\_\_\_\_



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.

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.

<p><u>Recipe</u></p> <p>320 g flour 120 g butter 200 g sugar</p>
--

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in this space

Jenny uses the recipe above to make 30 cupcakes. She has 1 kg of flour, 500g of butter and 500 g of sugar. What is the maximum number of cupcakes she can make?

Ans: \_\_\_\_\_

2. Mrs Heng bought 30 pens and 10 keychains at a bookshop. She paid \$152.50 in total for her purchases. Given that each keychain cost \$8.20, find the cost of one such pen.

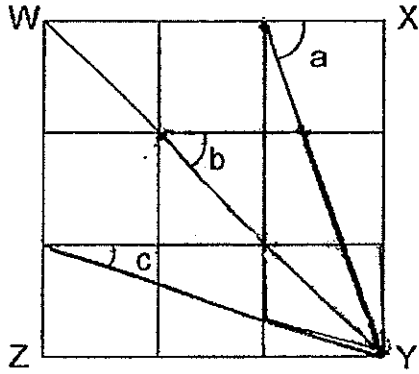
Ans: \$ \_\_\_\_\_

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3. In the figure below, WXYZ is a square which is made up of 9 identical squares. Find the sum of  $\angle a$ ,  $\angle b$  and  $\angle c$ .



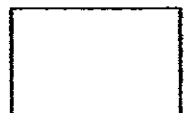
Ans: \_\_\_\_\_ °

4. A toy car cost \$34. It cost half as much as a toy aeroplane. Sally bought 2 toy cars and a toy aeroplane. She gave the cashier \$150. How much change did Sally receive?

Ans: \$ \_\_\_\_\_

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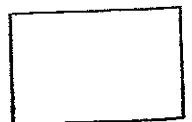


5. There were  $\frac{3}{7}$  as many tennis rackets as badminton rackets in the PE storeroom. 33 badminton rackets were taken out and there were twice as many tennis rackets as badminton rackets in the end. How many tennis rackets were there in the storeroom?

Do not write  
in this space

Ans: \_\_\_\_\_

(Go on to the next page)



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.

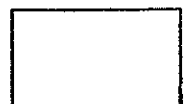
(50 marks)

6. Apples in a fruit stall were placed equally in 25 baskets at first. 3 baskets were removed and the apples in these baskets were placed in the remaining 22 baskets. As a result, the number of apples in each remaining basket increased by 6. What was the total number of apples in all the baskets at first?

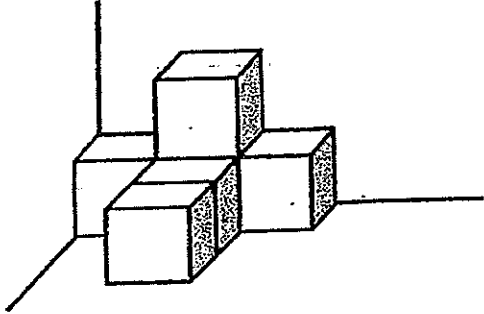
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Ans: \_\_\_\_\_ [4]

(Go on to the next page)



7. The figure below is made up of 3-cm cubes. Sandy wants to use more 3-cm cubes to form the figure into a 12 cm by 12 cm by 9 cm cuboid. How many more 3-cm cubes will Sandy need in order to form the cuboid?



Do not write  
in this space

Ans: \_\_\_\_\_ [3]

(Go on to the next page)



8. A burger cost twice as much as a sandwich at a cafeteria. Mrs Tan spent  $\frac{1}{4}$  of her money on some sandwiches and  $\frac{1}{6}$  of the remainder on 2 burgers. How many sandwiches did Mrs Tan buy?

Do not write  
in this space

Ans: \_\_\_\_\_ [4]

(Go on to the next page)



9. Tank A and Tank B were filled to the brim with water. Tank A contained 8.5 litres more water than Tank B. Some water was removed from both tanks so that Tank A was  $\frac{3}{5}$  full and Tank B was  $\frac{4}{5}$  full. Given that there was 12.9 litres of water left in Tank A, how much water was removed from Tank B?

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Ans: \_\_\_\_\_ [3]

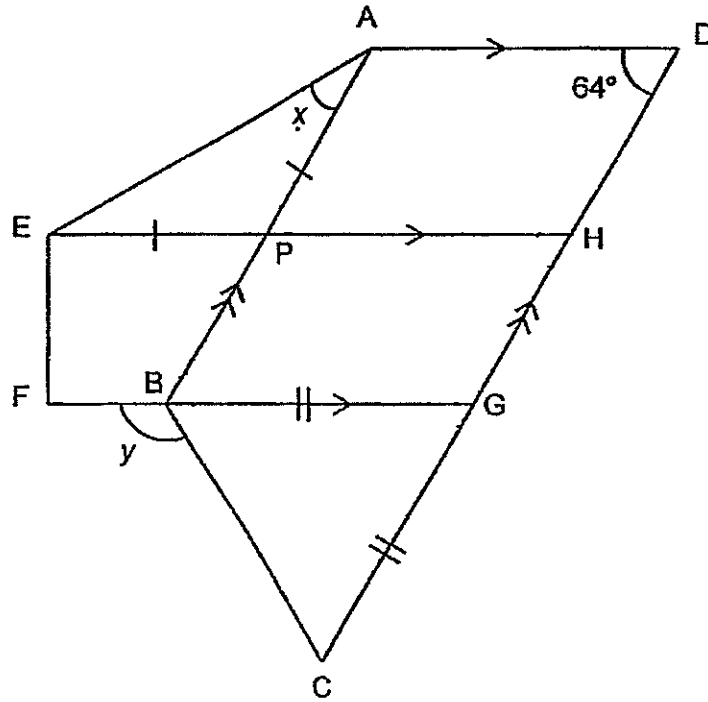
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10. In the figure below, ADHE, ADCB and EHGf are trapeziums. APE and BGC are isosceles triangles.  $\angle ADH = 64^\circ$ .

(a) Find  $\angle x$ .

(b) Find  $\angle y$ .



Do not write  
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Ans: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [2]

(Go on to the next page)

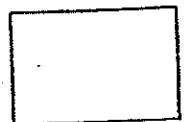


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11. Calvin, Edward and David sold some tickets for their school concert. Calvin sold  $\frac{3}{7}$  of the total number of tickets. Edward and David sold the remaining tickets in the ratio 5 : 7. Given that Calvin sold 108 more tickets than Edward, how many tickets did the 3 of them sell altogether?

Ans: \_\_\_\_\_ [3]

(Go on to the next page)





12. Mrs Bala baked three types of pies. 46 of them were chicken pies and 125 were vegetable pies. She baked twice as many fruit pies as vegetable pies. What percentage of the pies Mrs Bala baked were vegetable pies? Give your answer correct to 1 decimal place.

Do not write  
in this space

Ans: \_\_\_\_\_ [3]

(Go on to the next page)



13. At first, Jack, Ken and Leo spent a total of \$2420. After Jack tripled his spending, Ken decreased his spending by \$470 and Leo increased his spending by \$150, the amount of money each boy spent became the same in the end.

(a) How much money did Jack spend in the end?

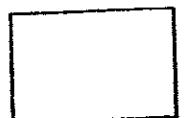
(b) How much money did Ken spend at first?

Do not write  
in this space

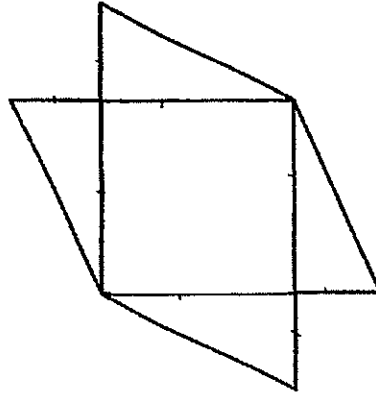
Ans: (a) \_\_\_\_\_ [3]

(b) \_\_\_\_\_ [2]

(Go on to the next page)



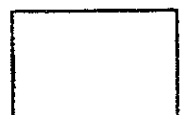
14. The figure is made up of a square and 4 identical right-angled triangles. The perimeter of the square is 48 cm. The height of each triangle is half its base. Find the area of the figure.



Do not write  
in this space

Ans: \_\_\_\_\_ [3]

(Go on to the next page)



15. Jerry spent \$92 on shoes and \$64 on pants. He then spent  $\frac{2}{9}$  of his remaining money on groceries. After buying groceries, he gave  $\frac{3}{7}$  of the money he had left to his sister. In the end, he was left with  $\frac{2}{11}$  of the sum of money he had at first. How much money did he have at first?

Do not write  
in this space

Ans: \_\_\_\_\_ [5]

(Go on to the next page)



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16. A briefcase with 5 books in it has a mass of 1.57 kg. When 3 more books and 7 files are added into the briefcase, the mass becomes 2.45 kg. Each book is 5 times as heavy as each file.

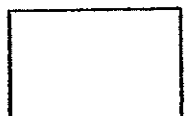
(a) What is the mass of each file?

(b) What is the mass of the briefcase when it is empty?

Ans: (a) \_\_\_\_\_ [3]

(b) \_\_\_\_\_ [2]

(Go on to the next page)



17. Diana is 2 kg heavier than Elaine. Elaine is 3 kg heavier than Joyce.  
Joyce is 8 kg lighter than Tim. The total mass of Tim and Joyce is 86 kg.  
What is the average mass of the 4 children?

Do not write  
in this space

Ans: \_\_\_\_\_ [4]

(Go on to the next page)



18. A factory baked 4230 cupcakes on Monday. 20% of them were chocolate cupcakes while the rest were cheese cupcakes. On Tuesday, the factory baked only chocolate cupcakes. 40% of all the cupcakes baked on both Monday and Tuesday were chocolate cupcakes.

Do not write  
in this space

- (a) How many chocolate cupcakes did the factory bake on Monday?
- (b) How many more cheese cupcakes than chocolate cupcakes were produced by the factory at the end of both days?

Ans: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [2]

-END OF PAPER-

Setters: Ms Chin Lian Mei, Mrs Elaine Chua, Mr Jenfry Tseng, Mr Yip Yew Fei

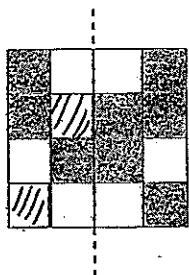




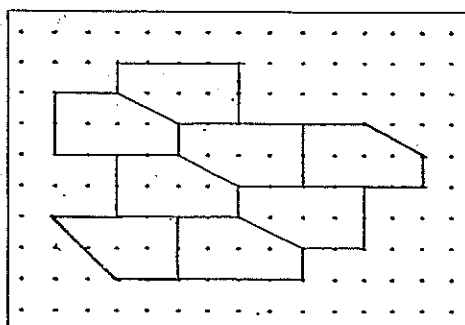


Henry Park Primary School  
 2014 Semestral Examination 2  
 Mathematics  
 Primary 5

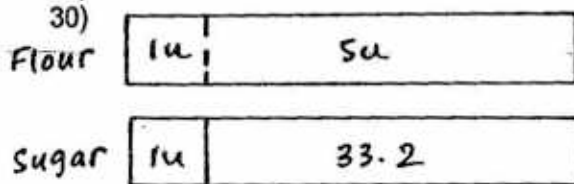
- 1) 4
- 2) 2
- 3) 2
- 4) 3
- 5) 4
- 6) 3
- 7) 4
- 8) 4
- 9) 3
- 10) 4
- 11) 2
- 12) 3
- 13) 4
- 14) 1
- 15) 3
- 16) 902 203
- 17) 900 ml
- 18)  $\frac{1}{8}$  kg
- 19) 1.074
- 20) 81 m
- 21)



- 22)  $31^\circ$
- 23)



- 24) 245 km
- 25) 3 : 7
- 26) 56 °
- 27) 10 buses
- 28) \$3000
- 29) 1/3



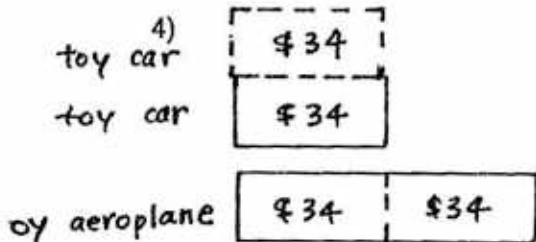
5units → 33.2  
 1unit →  $1/5 * 33.2 = 6.64$  kg

**Paper 2**

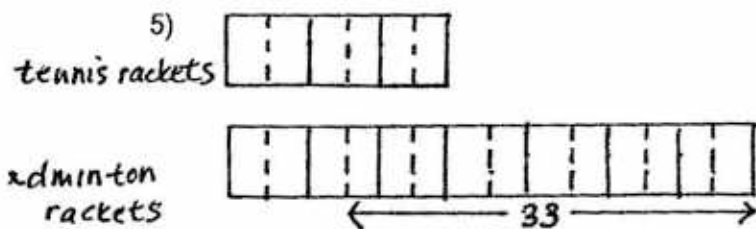
- 1) Since the ratio of sugar is the smallest as compared to flour and butter, we have to base on sugar to get the maximum number of cupcakes.  
 $500/200 = 2.5$   
 $2.5 * 30 = 75$  cupcakes

2)  $10 * \$8.20 = \$82$   
 $\$152.50 - \$82 = \$70.50$   
 $\$70.50 / 30 = \$2.35$

3) Angle b =  $90/2 = 45^\circ$   
 Angle a + Angle c =  $90^\circ$   
 Angle a + Angle b + Angle c =  $45 + 90 = 135^\circ$



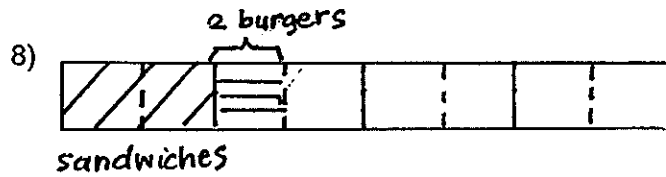
$34 * 4 = \$136$   
 $\$150 - \$136 = \$14$



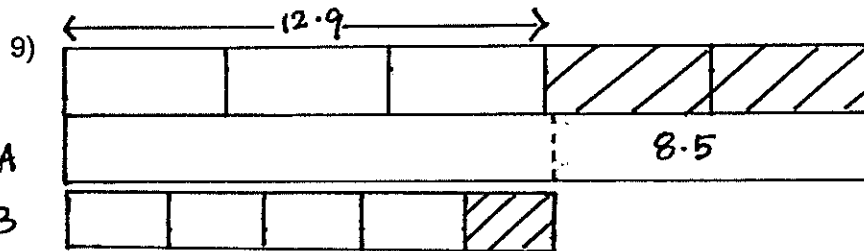
$11u \rightarrow 33$   
 $6u \rightarrow 6/11 * 33 = 18$  tennis rackets

6)  $6 \times 22 = 132$   
 $132/3 = 44$   
 $25 \times 44 = 1100$  apples at first

7)  $12/3 = 4$   
 $9/3 = 3$   
 $4 \times 4 \times 3 = 48$   
 $48 - 6 = 42$  more cubes

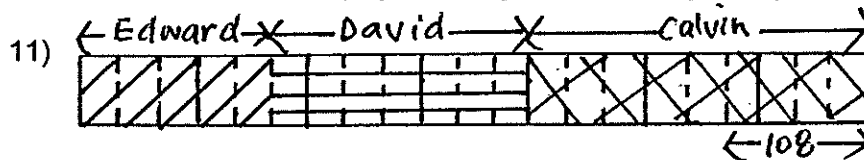


$1u \rightarrow 2$  burgers = 4 sandwiches  
 $2u \rightarrow 2 \times 4 = 8$  sandwiches



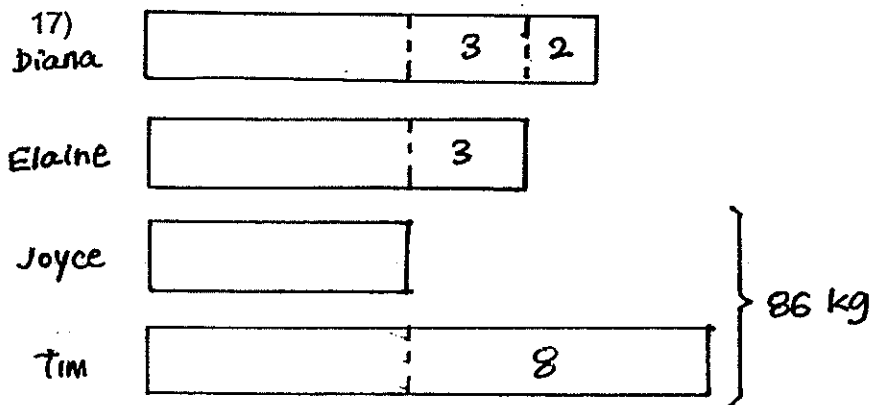
$3u \rightarrow 12.9$  litres  
 $5u \rightarrow 5/3 \times 12.9 = 21.5$  litres  
 $21.5 - 8.5 = 13$  litres  
 $13/5 = 2.6$  litres

10a)  $x = 64/2 = 32^\circ$  (sum of exterior angles)  
b)  $\angle BGC = 64^\circ$  (corresponding angles)  
 $\angle GBC = (180 - 64)/2 = 58^\circ$  (base angles of isosceles triangles)  
 $y = 180 - 58 = 122^\circ$  (adjacent angles on a straight line)



$9\text{units} - 5\text{units} = 4\text{units}$   
 $108/4 = 27$   
 $21 \times 27 = 567$  tickets





$$86 \times 2 = 172 \text{ kg}$$

$$172 / 4 = 43 \text{ kg}$$

- 18a)  $20/100 \times 4230 = 846$  chocolate cupcakes  
 $4230 - 846 = 3384$  cheese cupcakes  
 60%  $\rightarrow$  3384  
 40%  $\rightarrow$   $40/60 \times 3384 = 2256$  chocolate cupcakes
- b)  $3384 - 2256 = 1128$  more cheese cupcakes

