Primary Five Examination Papers

2015

Mathematics

1	Nan Hua Primary School	CA1	SA1	CA2	SA2
2	Rosyth School	CA1	SA1		SA2
3	Chij St Nicholas Girls School	CA1	SA1		SA2
4	Anglo Chinese School	CA1	SA1	CA2	SA2
5	Methodist Girls School	CA1	SA1		SA2
6	Catholic High School		SA1		SA2
7	Henry Park Primary School		SA1		
8	Nanyang Primary School		SA1		SA2
9	Raffles Girls Primary School		SA1		SA2
10	Red Swastika School		SA1		SA2
11	Singapore Chinese Girls School		SA1		SA2
12	Tao Nan School		SA1		SA2

NAN HUA PRIMARY SCHOOL
CONTINUAL ASSESSMENT 1 – 2015
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 <u>not allowed</u> to use the calculator for Paper 1.

Marks Obtained

Paper 1		/ 40
Paper 2		/ 60
Total		/ 100

Name : _____ (   )

Class : _____

Date : 2 March 2015   Parent's Signature : _____

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. Which one of the following numbers has a digit '1' in the ten thousands place?

    (1)   145 607

    (2)   231 980

    (3)   475 318

    (4)   713 520

2. Which one of the following numbers is 1000 less than 200 000?

    (1)   100 000

    (2)   190 000

    (3)   199 000

    (4)   199 900

3. What is the value of 18 + 120 ÷ (3 × 2)?

    (1)   23

    (2)   38

    (3)   92

    (4)   98

1

4. What is the missing number in the box below?

680 324 = 600 000 + [?] + 300 + 20 + 4

    (1)   800
    (2)   8000
    (3)   80 000
    (4)   800 000

5. Which one of the following tells the same time as 10 min to noon?

    (1)   11.50 a.m.
    (2)   11.50 p.m.
    (3)   12.10 a.m.
    (4)   12.10 p.m.

6. What fraction of the figure below is shaded?
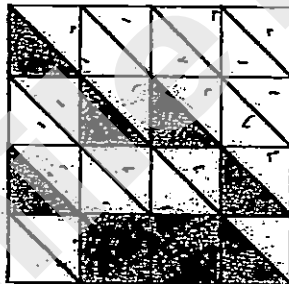
    (1) $\dfrac{3}{8}$

    (2) $\dfrac{5}{8}$

    (3) $\dfrac{5}{16}$

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

7. Mrs Lim baked 36 muffins in the morning. She baked 15 less muffins in the afternoon than in the morning. How many muffins did she bake in total?

    (1)   21

    (2)   51

    (3)   57

    (4)   87

8. Which one of the following fractions is closest to 1?

    (1) $\dfrac{5}{6}$

    (2) $\dfrac{7}{8}$

    (3) $\dfrac{9}{10}$

    (4) $\dfrac{11}{12}$
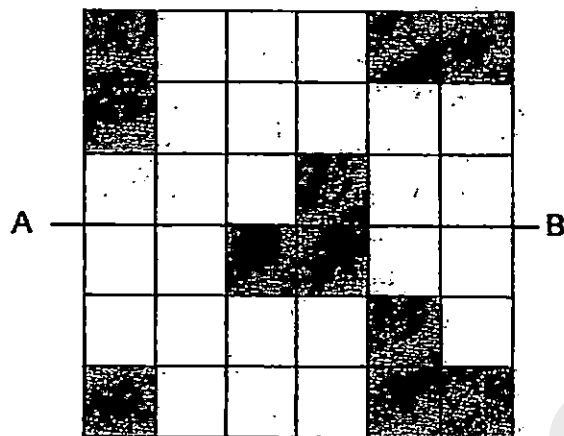
9. How many quarters are there in $9\dfrac{1}{2}$?

    (1)   11

    (2)   19

    (3)   37

    (4)   38

10. Study the figure below. What is the least number of squares that must be shaded such that AB is the line of symmetry of the figure?

A ————— B

(1) 1

(2) 2

(3) 3

(4) 4

11. Sam's father gave him some money. He spent half the money on the first day. He spent half of the remainder on the second day and had $12 left. How much did Sam's father give him?

(1) $12

(2) $24

(3) $36

(4) $48

4

12. The line graph below shows the volume of water in a container over a 3-hour period.
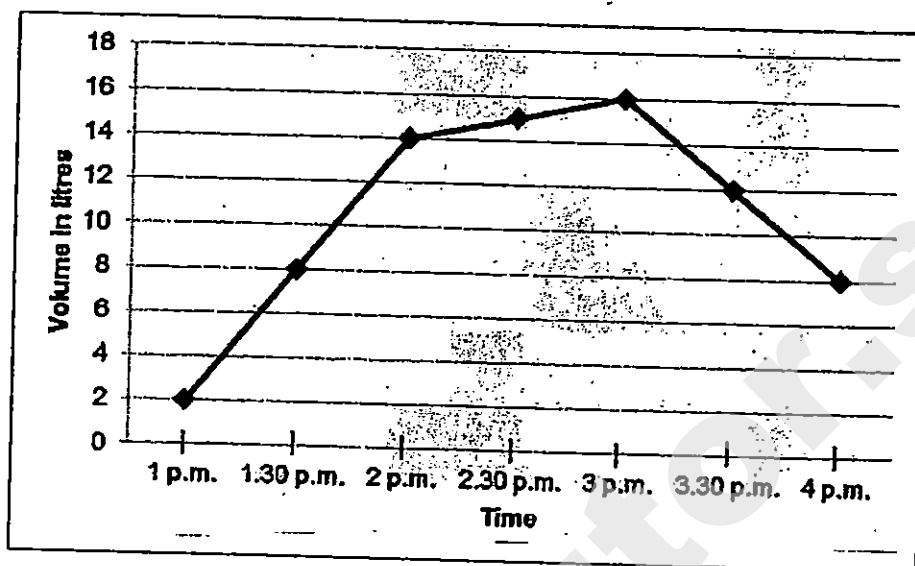
For how long were there at least 8 litres of water in the container?

(1)   1h 30min

(2)   2h

(3)   3h

(4)   2h 30min

13.   The table below shows the price of some equipment in a sports shop.

Equipment	Price
Badminton racket	$79
Football	$58
Rollerblades	$149

John went to the shop and bought a football and a badminton racket. Round off his total spending to the nearest $10.

(1) $130

(2) $140

(3) $280

(4) $290

5

14. Mary bought 3 m of cloth. She used $\frac{4}{5}$ m of cloth to make a skirt for her daughter. She used another $\frac{9}{10}$ m of cloth to make a shirt for her son. How much cloth did she have left?

(1) $1\frac{3}{10}$ m

(2) $1\frac{7}{10}$ m

(3) $2\frac{1}{5}$ m

(4) $4\frac{7}{10}$ m

15. The perimeter of a rectangle is 60 m. The length of the rectangle is twice its breadth. What is the area of the rectangle?

(1) 200 m²

(2) 400 m²

(3) 450 m²

(4) 800 m²

6

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 1 040 014 in words.

Ans: _____

_____

17. What is the product of 80 and 500?

Ans: _____

18. The price of a car is $125 000 when rounded off to the nearest $100. What could the **lowest** possible price of the car be in whole numbers?

Ans: $ _____

19. 48.32 ÷ 8 = _____

Ans: _____

20. Using the digits given below, form the **smallest** 4-digit number that can be divided by 5 without any remainder. Each digit can be only used once.

| 0 | 2 | 5 | 8 |

Ans: _____

21. John is facing south-east now.

He makes a $\frac{3}{4}$ - turn clockwise. In which direction is he facing in the end?

Ans: _____
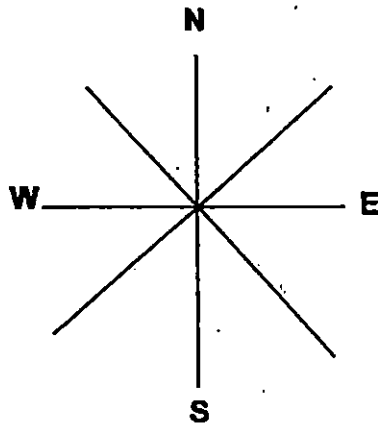
22. Find the missing number in the box below.

$49 \times 28 = \boxed{?} \times 28 - 15 \times 28$

Ans: _____

23. Add $2\frac{3}{8}$ and $6\frac{3}{4}$. Give your answer as a mixed number.

24. How many minutes are there in $4\frac{2}{3}$ hours?

Ans: _____ min

25. How many common factors do 28 and 42 have?

Ans: _____

26. Study the pattern of letters below. How many 'P's are there if there are a total of 107 letters in the pattern?

N H P S N H P S N H P S ...

1st

Ans: _____

27. Ali and James collected 742 stickers altogether. After Ali bought another 25 stickers and James bought another 53 stickers, both had the same number of stickers. How many stickers did Ali have at first?

Ans: _____ stickers

---

28. Meihua had a total of 16 oranges and pears. After she exchanged every pear for 3 oranges, she had 30 oranges altogether. How many pears did she have at first?

Ans: _____ pears

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29. The figure below is not drawn to scale. Given that all the lines meet at right angles, find its perimeter.
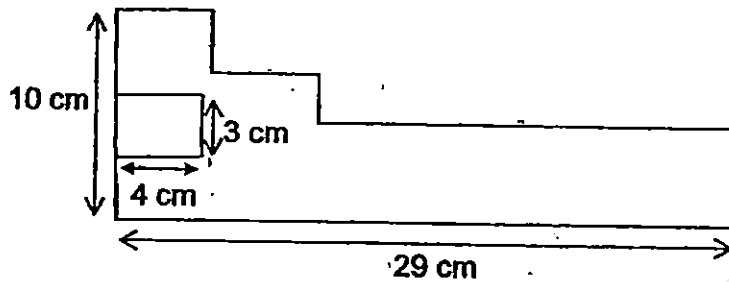
Ans: _____ cm

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30. A bus can carry at most 42 adults or 63 children. There are already 45 children on the bus. How many adults can still get on the bus?

Ans: _____ adults

--- End of Paper 1 ---

NAN HUA PRIMARY SCHOOL
CONTINUAL ASSESSMENT 1 – 2015
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

Total		/ 60

Name : _____ (   )

Class : _____

Date : 2 March 2015   Parent's Signature :_____

1. Arrange the following numbers in increasing order.

   973 851   937 518   985 317   931 875

   Answer: _____ , _____ , _____ , _____

   [2]

2. A shopkeeper had just enough boxes to pack 1375 pencils into boxes of 11. If he wanted to pack all the pencils into boxes of 5 instead, how many more boxes does he need?

   Answer: _____ [2]

3. There were 365 balls in Basket A and 173 balls in Basket B. Some of the balls were transferred from Basket A to Basket B until each basket had the same number of balls. How many balls were transferred?

   Answer: _____ [2]

1

4. A piece of paper measures 21 cm by 17 cm. Two circles of area 38.5 cm² each are cut from it. What is the area of the piece of paper that is left?

21 cm

17 cm
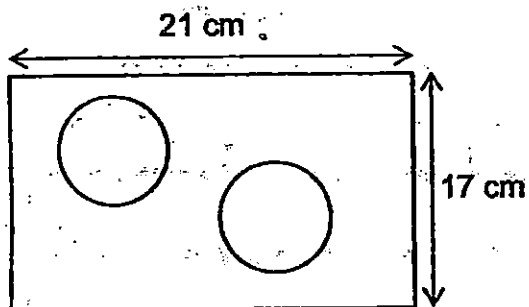
Answer: _____ cm² [2]

5. Some boys were standing along a straight line at equal distance apart. The distance between the third and the fifth boy was 10 m. Harry was 60 m from the first boy. At which position was Harry standing?

Answer: _____ [2]

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. Include units whenever possible. [50 marks]

6. A blue pole, a yellow pole and a red pole were placed side by side. The total length of the three poles was $8\frac{5}{12}$ m. The yellow pole was $1\frac{1}{4}$ m shorter than the red pole. The red pole was $2\frac{1}{3}$ m longer than the blue pole. What was the length of the red pole?

Answer: _____ [3]

7. Jan has $370 more than Ruth. After Jan gives Ruth $65, Jan has 4 times as much money as Ruth. How much money does Ruth have at first?

Answer: _____ [3]

3

8. The total age of Mrs Lim and her daughter is 34. In 4 years' time, Mrs Lim will be 5 times as old as her daughter. How old is her daughter now?

Answer: _____ [3]

9. Mrs Ng bought 3 kg of flour. She used $\frac{4}{5}$ kg of the flour to bake a tart. To bake a cake, she used $\frac{1}{3}$ kg more flour than what she used for the tart. How much flour did Mrs Ng have left after baking a tart and a cake?

Answer: _____ [3]

4

10. Miss Ho bought some candies. She divided the candies equally among a class of 32 children. 4 of them gave all their candies to the rest of the children. As a result, the rest of the children received 3 more candies each. How many candies did each child receive at first?

Answer: _____ [3]

11. Mr Wong bought $5\frac{1}{6}$ kg of beef and $2\frac{1}{2}$ kg of mutton. He used the same amount of beef and mutton to cook dinner. The amount of beef left was 3 times the amount of mutton left. How much of each type of meat was used?

Answer: _____ [4]

5

12. 6 adults and 15 children went for a concert. They paid a total of $1077.30. The ticket for an adult cost twice as much as the ticket for a child. How much was the ticket for an adult?

Answer: _____ . [4]

13. 2 similar wallets and 3 similar watches cost $433.
5 similar wallets and 4 similar watches cost $701.
How much does a wallet cost?

Answer: _____ . [4]

14. Miss Tan wanted to give some stickers to her pupils. If she gave each pupil 7 stickers, she would have 3 stickers left. If she gave each pupil 9 stickers, she would be short of 5 stickers.

    (a)   How many pupils were there?

    (b)   How many stickers did Miss Tan have?

Answer: (a) _____ [2]

(b) _____ [2]
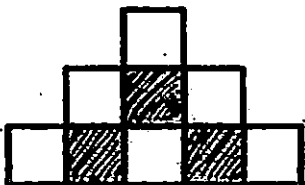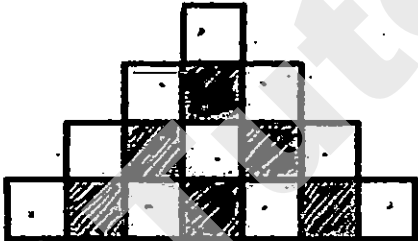
15. John, Kevin and Larry had 216 game cards altogether. Kevin gave some of his game cards to John and John's game cards were tripled. Then John gave some of his game cards to Larry and Larry's game cards were tripled. At the end, the three boys had an equal number of game cards each. How many game cards did Kevin have at first?

Answer: _____ [4]
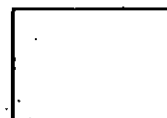
16. The patterns below consist of shaded and unshaded squares. Study the patterns carefully before answering the questions.

Pattern 1	
Pattern 2	
Pattern 3	
Pattern 4	

(a) What fraction of the total number of squares are **shaded** in Pattern 6? (Give your answer in the simplest form)

(b) What is the total number of squares in Pattern 12?

17. Noel had 4 times as much money as Peter. When Noel had spent $4114, Peter's money became 3 times as much as Noel's.

(a) How much did Noel have at first?

(b) How much more money did Noel have than Peter at first?

Answer: (a) _____ [3]

(b) _____ [2]

9

18. Siti started a savings plan by putting a coin in a money box every day. Each coin is either a 20-cent coin or 50-cent coin. Her mother also put in a $1 coin in the box every 5 days. The total value of the coins after 68 days is $34.70.

(a) How many coins were there altogether?

(b) How many of the coins were 20-cent coins?

Answer: (a) _____ [1]

(b) _____ [4]

- End of Paper -

EXAM PAPER 2015
LEVEL : PRIMARY 5
SCHOOL : NAN HUA PRIMARY
SUBJECT : MATHEMATICS
TERM : CA1

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

Q16. One million, forty thousand and fourteen

Q17. 40 000

Q18. $124 950

Q19. 6.04

Q20. 2085

Q21. North East

Q22. 64

Q23. 9⅛

Q24. 280 min➜ 4 x 60 =240, 60 ÷ 3 = 20, 20 x 2 = 40, 40 + 240 = 280

Q25. 4➜ factors of 28 : **1**, **2**, 4, **7**, **14**, 28, factors of 42 : **1** , **2**, 3, 6, **7**, **4**, 21, 42

Q26. 27➜ 107 ÷ 4 = 26R3, 26 + 1 = 27

Q27. 385 stickers➜ 820÷2=410, 410-25 = 385

Q28. 7 pears
Assume that she had 16 pears left
16 x 3 = 48 ←No. of oranges exchanged
48 – 30 = 18
18÷2=9 ←No. of oranges at first.
16 – 9 = 7 ←No. of pears at first.

Q29. 86cm➜ (10+29) x 2 = 78; 4 x 2 = 8, 78 + 8 = 86

Q30. 12 adults.
63 – 45 = 18
$\frac{18}{63} = \frac{2}{7}$
42÷7=6, 6 x 2 = 12.

Q1. 931 875, 937 518 , 973 518, 985 317

Q2. 150
1375 ÷ 11 = 125
1375 ÷ 5 = 275
275 – 125 = 150

Q3. 96
365 + 173 = 538
538 ÷ 2 = 269
365 – 269 = 96

Q4. 280cm²
21 x 17 = 357
38.5 x 2 = 77
357 – 77 = 280

Q5. 13th
5 – 3 = 2
10 ÷ 2 = 5
60 ÷ 5 = 12 (gaps between)
12 + 1 = 13

Q6. 4m
Let 'R' be red, 'Y' be yellow and 'B' be blue
R → y + 1¼m
R → B + 2⅓m
$8\frac{5}{12}$ m + 1¼m + 2⅔m = 12m
12m ÷ 3 = 4m

Q7. $15
$370 – $65 = $305
$305 – $65 = $240
$240 ÷ 3 = $80
$80 – $65 = $15

Q8. 3
34 + (4x2) = 42
42 ÷ 6 = 7
7 – 4 = 3

2

Q9. $1\frac{1}{15}$ kg

$3 = \frac{9}{3} = \frac{45}{15}$

$\frac{4}{5} = \frac{12}{15}$

$\frac{1}{3} = \frac{5}{15}$

$\frac{12}{15} + \frac{5}{15} = \frac{17}{15}$

$\frac{17}{15} + \frac{12}{15} = \frac{29}{15}$

$\frac{45}{15} - \frac{29}{15} = \frac{16}{15} = 1\frac{1}{15}$

Q10. 21

$32 - 4 = 28$

$28 \times 3 = 84$

$84 \div 4 = 21$

Q11. 1⅙kg

2 units 5⅙ − 2½ = 2⅔

1 unit 1⅓

2½ - 1⅓ = 1⅙

Q12. $79.80

$6 \times 2 = 12$

$12 + 15 = 27$

$1077.30 \div 27 = \$39.90$

$39.90 \times 2 = \$79.80$

Q13. $53

Let X be wallets and Y be watches

$2x + 3y = \$433$

$5x + 4y = \$701$

$7x + 7y = \$701 + \$433 = \$1134$

$x + y = \$1134 \div 7 = \$162$

$4x + 4y = \$162 \times 4 = \$648$

$X = \$701 - \$648 = \$53$

Q14a. 4 (5+3) ÷ (9-7) = 4

Q14b. 31 4x7+3=31, 4 x 9 – 5=31

Q15. 152

216÷3=72, 72÷9=8

1 unit ➔ 8

14 units ➔9 x 8 = 152

Q16a. $\frac{5}{12}$

Pattern 6, total 6 + 9+11=36,

Pattern 6 shaded 6+4+5=15,

$\frac{15}{36} = \frac{5}{12}$

Q16b. 144

1 , 4, 9 , 16, 25, 36,49, 64, 81, 100, 121, 144

Q17a $4488

11 units➔ $4114

1 unit ➔$4114 ÷ 11 = $374

12 units➔ $374 +$4114=$4488

Q17b. $3366

9 units➔ $374 x 9 = $3366

Q18a. 81

68 x 1 = 68

68÷5=13R3

68+13=81

Q18b. 41

$34.70 - $13=$21.70

Assume all coins are 50cents

68 x 50¢ = 3400¢

$21.70 = 2170¢

3400¢ - 2170¢ = 1230 units

1230¢ ÷ (50¢ - 20¢) = 41

THE END

10. Which of the following are pairs of perpendicular lines?
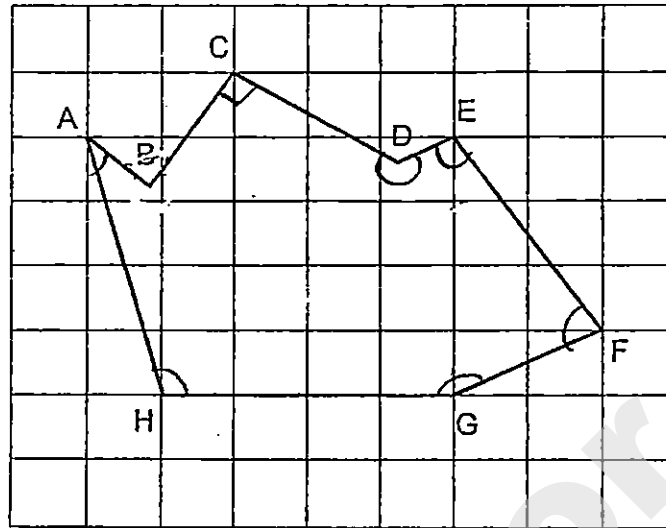
(1) AB and BC

(2) AH and HG

(3) EF and FG

(4) CD and EF

11. What is the value of (84 ÷ 7) + 7 x 6 − 3?

(1)   33
(2)   51
(3)   57
(4)   111

12. What is the length of the pen as shown in the figure below?
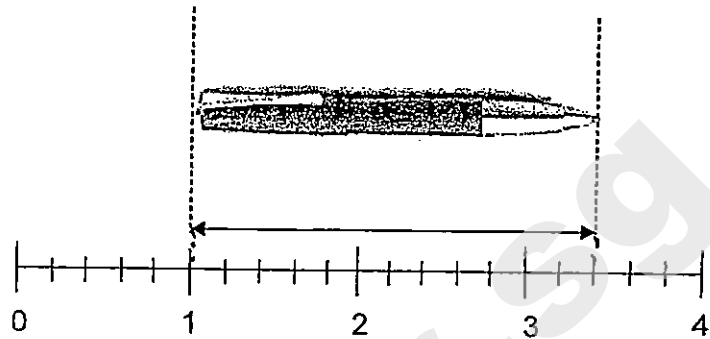
(1) 2.4 cm
(2) 2.8 cm
(3) 3.4 cm
(4) 3.8 cm

13. A strip of ribbon measuring 2.6 m was cut into 3 equal pieces. Round off the length of each piece to 2 decimal places.

(1) 0.80 m
(2) 0.86 m
(3) 0.87 m
(4) 0.90 m

14. Chris had four 20-cent coins and two 50-cent coins in his pocket. He took out two coins from his pocket and put them into a donation tin. Which of the following amount could **not** be his total donation?

(1) $0.40
(2) $0.70
(3) $0.90
(4) $1.00

15. Alex, Beth and Charles shared a sum of money. Charles received four times as much money as Beth and $8 less than Alex. If Charles received $16, find the total amount of money they had.

   (1) $28
   (2) $36
   (3) $44
   (4) $48

(Go on to Booklet B)

Rosyth School
First Continual Assessment 2015
Primary 5 Mathematics

Name: _____   Register No. _____

Class: Pr 5 - _____

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

Total Time for Booklets A and B : 50 minutes

PAPER 1
(Booklet B)

Instructions to Pupils:

1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. 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)

1

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

(10 marks)

16. What is the missing number in the box?

$$2.476 = 2 + 0.4 + \boxed{} + 0.006$$

Ans: _____

17. Express $5\dfrac{13}{1000}$ as a decimal.

Ans: _____

18. The difference between 4 tenths and 23 thousandths is _____.

Ans: _____

19. In the diagram below, the letters M, A, T and H are drawn on a square grid. List all the letters which have perpendicular lines.

Ans: _____

(Go on to the next page)
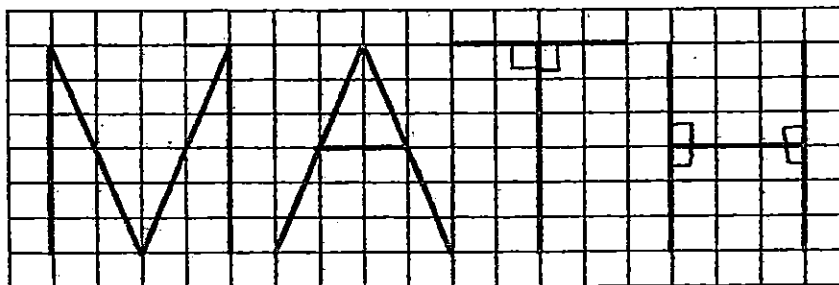
20. Express $\frac{22}{25}$ as a decimal.

Ans: _____

21. Find the product of 154 and 27.

Ans: _____

22. The table below shows the prices of identical toy cars sold at two stalls.

Stall A	2 for $3
Stall B	5 for $6

Which stall offers a lower price for a toy car?

Ans: _____

23. Find the value of $100 + 50 \div 5 \times 6 - 14$.

Ans: _____

3 (Go on to the next page)

24. Arrange the following decimals from the biggest to the smallest.

0.09, 2.015, 2.105, 0.19

Ans: _____, _____, _____, _____

25. How many lines of symmetry are there in this figure?
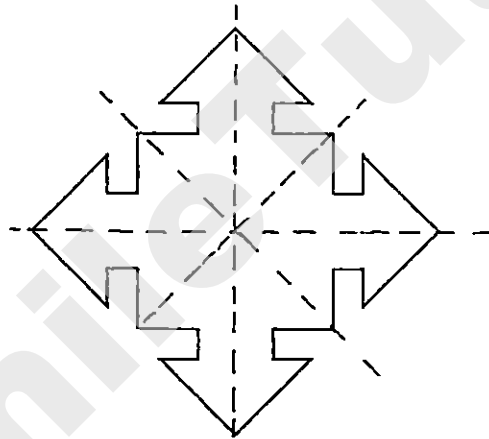
Ans: _____

4 (Go on to the next page)

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. The figure below shows a rectangular field.

Field   40 m

95 m
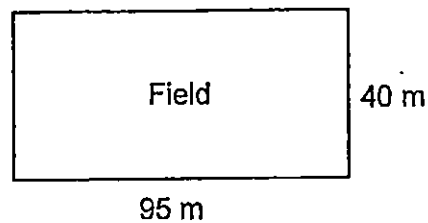
Bala ran 5 times around the field. What was the total distance covered by him?

Ans: _____ m

27. Durian puffs are only sold in boxes of 8. Each box is sold at $9.50. Alison wants to buy 72 durian puffs. How much does she pay for all the durian puffs?

Ans: $_____

5   (Go on to the next page)

28. The figure below is made up of a square and a rectangle.
    Find the perimeter of the figure below.

5 cm

6 cm

14 cm
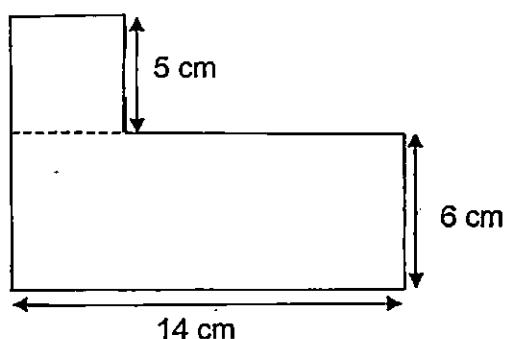
Ans: _____ cm

29. Jane, Henna and Devi had some rubber bracelets. The graph below shows the number of rubber bracelets each girl had.

Collection of rubber bracelets
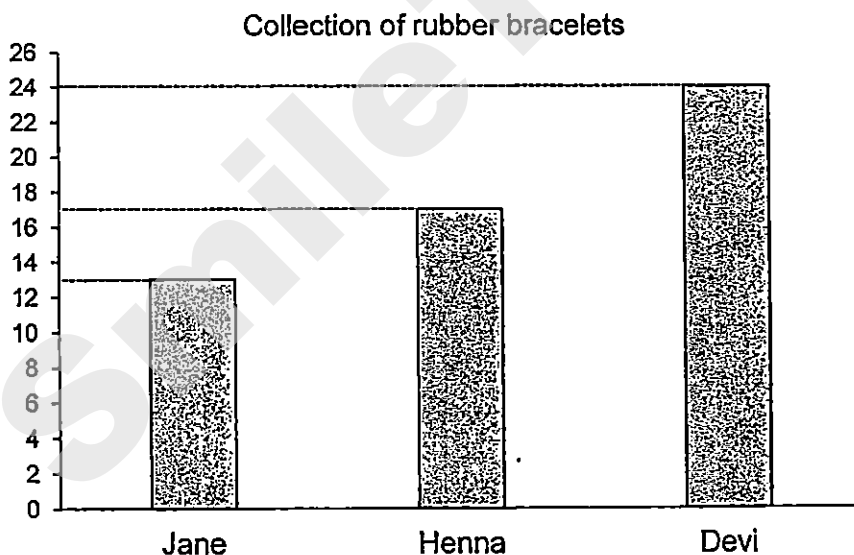
They sold all their rubber bracelets for $3 each. How much did they receive after selling all their rubber bracelets?

Ans: $ _____

(Go on to the next page)

30. The figure below is made up of a square and a rectangle. Find the shaded area of the figure.

12 cm

5 cm

10 cm
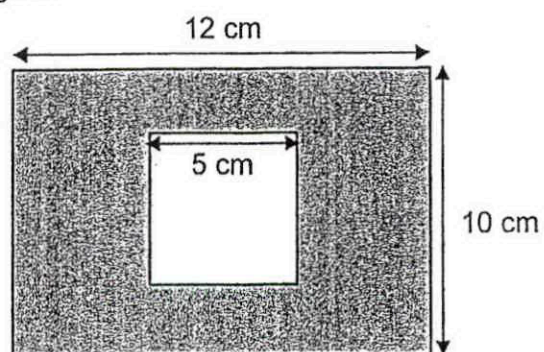
Ans: _____ cm²

End of Paper 1

ROSYTH

READY TO SERVE

Rosyth School
First Continual Assessment 2015
Primary 5 Mathematics

Name: _____   Register No. _____

Class: Pr 5 - _____

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

Total Time for Booklets A and B : 50 minutes

PAPER 1
(Booklet A)

Instructions to Pupils:

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

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

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

I

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

(20 marks)

1. Which of the following numbers is two million, five hundred and three thousand, one hundred and eight?

   (1)   2 053 108
   (2)   2 503 108
   (3)   2 530 108
   (4)   2 530 580

2. Round off 278 430 to the nearest ten thousands.

   (1)   278 000

   (2)   278 400

   (3)   280 000

   (4)   300 000

3. If the perimeter of a square is 64 m, what is the length of one side of the square?

   (1)   8 m
   (2)   16 m
   (3)   32 m
   (4)   48 m

2

4. 7 hundreds, 8 tenths and 3 thousandths is _____.

    (1)   700.083

    (2)   700.380

    (3)   700.803

    (4)   780.003

5. Which one of the following numbers is the largest?

    (1)   8.610

    (2)   8.016

    (3)   8.606

    (4)   8.061

6. $20 \div 1\,000 =$ _____.

    (1)   0.002

    (2)   0.020

    (3)   5

    (4)   50

7. $6.038 \times$ _____ $= 6.038$

    (1)   1

    (2)   10

    (3)   100

    (4)   1 000

8. Which figure below is symmetrical?

(1)

(3)

(2)

(4)
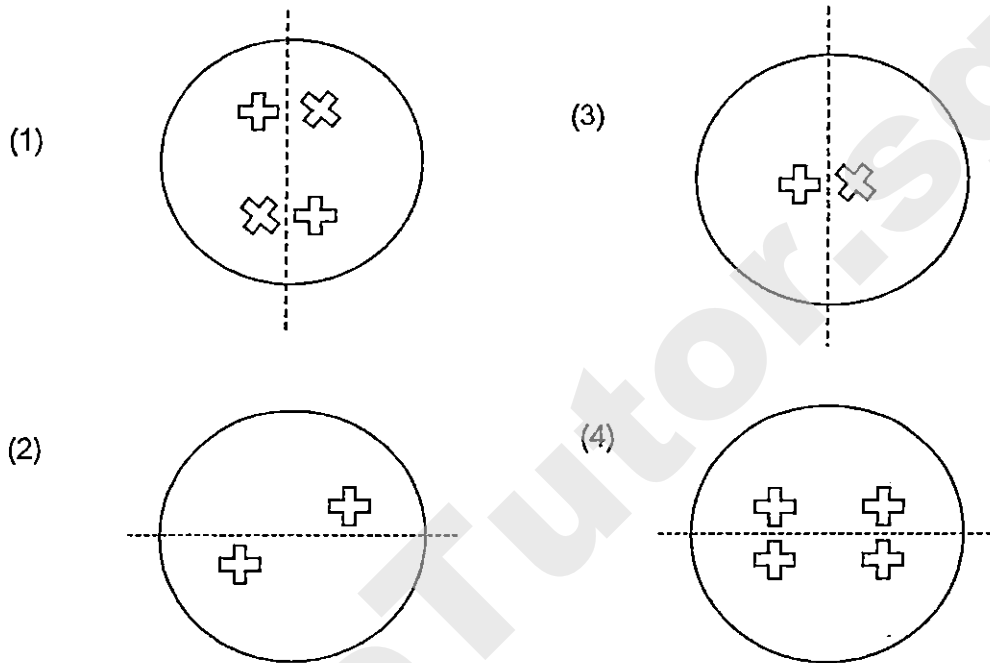
9. Express $1\frac{1}{5}$ as a decimal.

(1) 1.15

(2) 1.2

(3) 1.3

(4) 1.315

Rosyth School
First Continual Assessment 2015
Primary 5 Mathematics

Name: _____   Register No. _____

Class: Pr 5 -_____

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

Time: 1 h 15 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 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)

1   (Go on to the next page)

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. The pattern in the box shows part of a tessellation. Extend the tessellation by drawing two more unit shapes in the space provided.
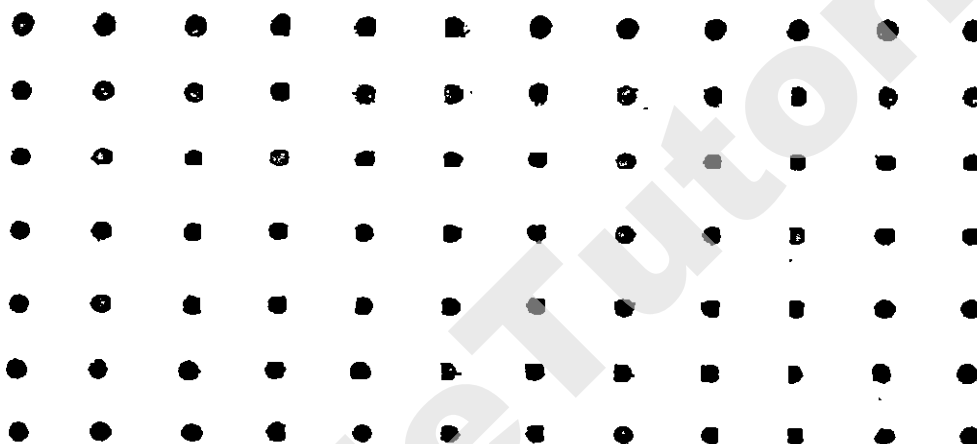
2. Omar had 6250 cm of string. He cut it into 10 equal pieces. What would be the length of each piece of string? (Express your answer in metres.)

Ans: _____ m

2   (Go on to the next page)

3. List all the common factors of 30 and 36.

Ans: _____

4. In a hall, there are 45 green and 27 blue chairs arranged in rows. Mr Singh wants to rearrange the chairs such that each row has the same number of chairs and are of the same colour. What is the greatest number of chairs in each row?

Ans: _____

3   (Go on to the next page)

5. The graph below shows the number of boxes of cookies sold by Ali and Ben for the past 6 months. For every sale above 2 000 boxes per month, the salesman would receive $135 in cash. What is the difference in the amount of cash received by the 2 men in the 6-month period?

Number of boxes sold

Ben

Ali

Jan   Feb   Mar   Apr   May   Jun

Ans: $ _____

4
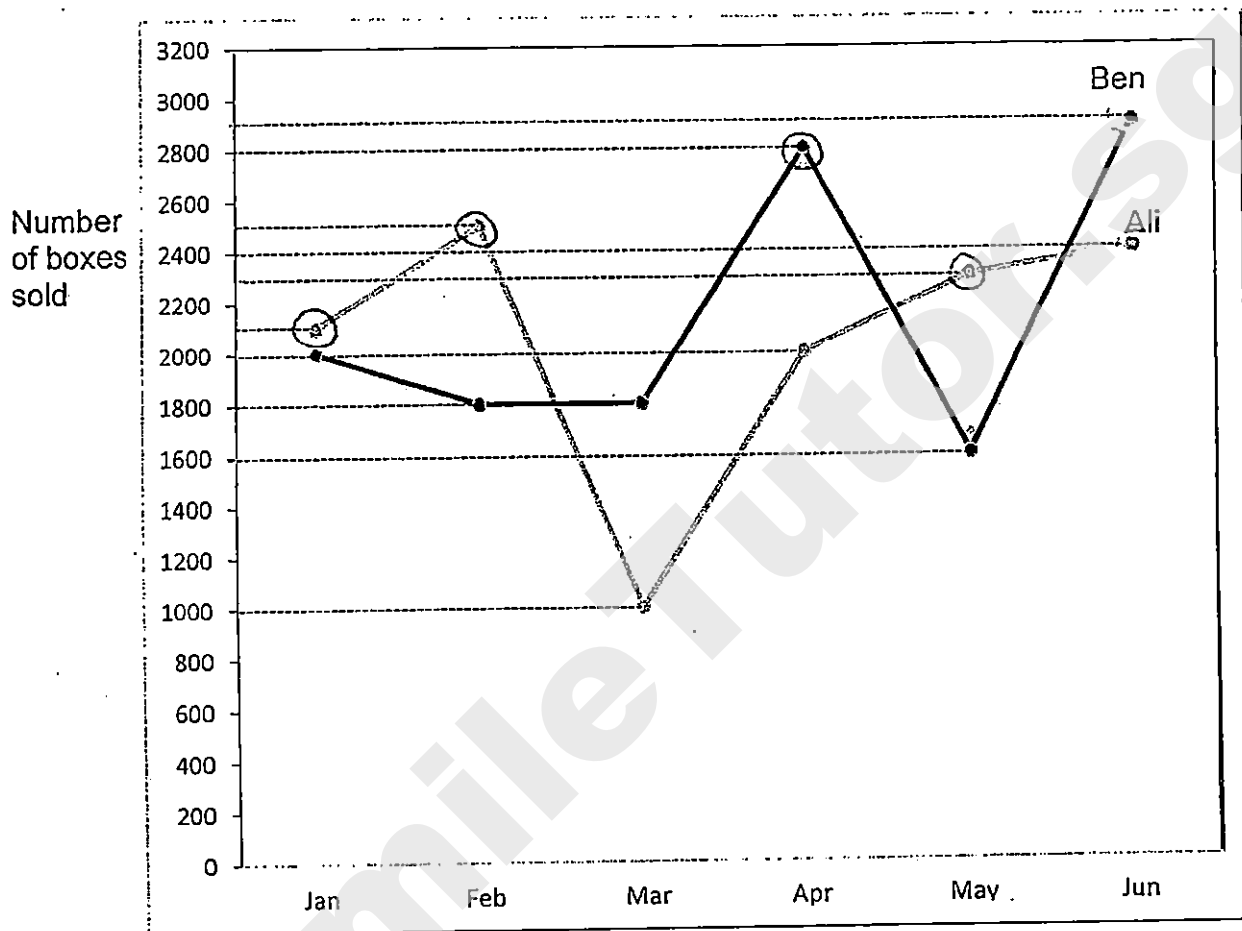
Questions 6 to 13, show your working clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question.

(30 marks)

6. Mdm Zuresh is 43 years old. Her son is 7 years old. In how many years' time will Mdm Zuresh be four times as old as her son?

Ans: _____ [3m]

(Go on to the next page)

7.   Given that Square A and Rectangle B have the same area, find the perimeter of Rectangle B.

A

54 cm

B

81 cm

Ans: _____ [3m]

e   (Go on to the next page)
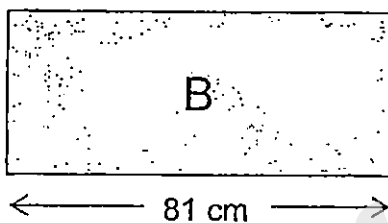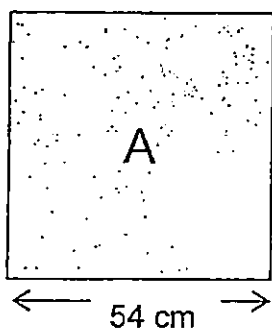
8. Wendy wants to decorate a Christmas tree with coloured bulbs. She wants to use bulbs of 2 different colours. The blue bulbs blink every 6 seconds and red bulbs blink every 8 seconds.

(a) How many times do the red bulbs blink in a minute?

(b) How many times do the blue and red bulbs blink at the same time in a minute?

Ans: (a)_____ (1m)

Ans: (b)_____ (2m)

(Go on to the next page)

9. Rosemary, Pat and Siti have some stickers. Rosemary has four times as many stickers as Pat. The total number of Rosemary's and Pat's stickers is twice that of Siti's. Rosemary has 159 more stickers than Siti. Find the total number of stickers the three girls have.

Ans: _____ (3m)

10. Jack bought a pair of pants that cost $25 more than a shirt and $8 less than a bag. He bought 3 pairs of pants, 2 shirts and 2 bags and paid a total of $379. How much did each pair of pants cost?

Ans: :_____ [4m]

9

(Go on to the next page)

11. 7 files and 4 storybooks cost $108.

5 files and 3 storybooks cost $80.

Find the total cost of 1 file and 1 storybook.

Ans: :_____ [5m]

10   (Go on to the next page)

12. During a National Day celebration ceremony, flag poles were placed from one end to the other end of a corridor. The flag poles were placed at an equal distance of 50 cm apart from each other. The corridor was 15m long. The width of the flag poles was insignificant and did not affect the distance covered.

50 cm   50 cm

(a) Find the total number of flag poles required for the event.

(b) On the day of the celebration, 5 flag poles were removed and placed elsewhere. As a result, the remaining flagpoles were rearranged from one end to the other end of the corridor at a new equal spacing. What was the new spacing between 2 flag poles?

Ans: (a) _____ [2m]

(b) _____ [3m]

11   (Go on to the next page)

13. A piece of ribbon and a stick were of equal length. After Jeffrey cut 4.2 cm from the ribbon and 35.2 cm from the stick, the length of the remaining ribbon was 5 times as long as the remaining stick. What was the total length of the ribbon and stick at first?

Ans: _____ [4m]

End of Paper

Have you checked your work thoroughly?

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

Q16. 0.07
Q17. 5.013
Q18. 0.377
Q19. T and H
Q20. 0.88
Q21. 4158
Q22. Stall B
Q23. 146
Q24. 2.105, 2.015, 0.190, 0.90
Q25. 4
Q26. 1350m
95m + 95m = 190m, 40m + 40m = 80m, 190m + 80m = 270m (1 round),
270m x 5 = 1350m
Q27. $85.50 ➔ 72 ÷ 8 = 9 (boxes), 9 x $9.50 = $85.50
Q28. 50cm ➔ 15cm + 9cm + 12cm + 14cm = 50
Q29. $162 ➔ 13 + 17 = 30, 30 + 24 = 54, 54 x $3 = $162
Q30. 95cm²
12cm x 10cm = 120cm² (total area)
5cm x 5cm = 25cm² (area of square)
120cm² − 25cm² = 95cm² (shaded area)

Q1. SEE PICTURE

Q2. 6.25m ➔ 6250cm = 62.50m, 62.50m ÷ 10 = 6.25m
Q3. 1, 2, 3, and 6 ➔ 30 ➔ 1, 2, 3, 5, 6, 10, 15, 30   36 ➔ 1, 2, 3, 4, 6, 9, 12, 18, 36
Q4. 9 ➔ 45 ➔ 1, 3, 5, 9, 15, 45   27 ➔ 1, 3, 9, 27
Q5. $270

	J	F	M	A	M	J
A ➔	135	135	0	0	135	135
B ➔	0	0	0	135	0	135

$135 x 4 = $540
2 x $135 = $270
$540 − $270 = $270

Q6. In 5 years

Years	Now	1	2	3	4	5
2	43	44	45	46	47	48
5	7	8	9	10	11	12

5 times older   4 times older

Q7. 234cm

54cm x 54cm = 2916cm² (Area of A)

2916cm² (Area of B)

2916cm² ÷ 81cm = 36cm (Breadth of B)

81cm x 2 = 162cm

36cm x 2 = 72cm

162cm + 72cm = 234cm

Q8a. 7   Q8b. 2

a) The red bulb blinks 7 times in a minute

b) They both blink 2 times at the same time in a minute.

1 minute = 60 seconds

60 ÷ 8 = 7 R4

Multiples of 8 → 8,16,24,32,40,48,56

Multiples of 6 → 6,12,18,24,30,36,42,48,54,60

Q9 795

3u = 159, U = 159 ÷ 3 = 53

15u = 53 x 15 = 795

Q10. $59

5 x 25 = 125, 2 x 8 = 16, 125 + 16 = 141, 379 – 141 = 238

7U = 238, U = 238 ÷ 7 = 34, 34 + 25 = 59

Q11. $24

7F + 4S = $108 ---------- (1)

5F + 3S = $80 ---------- (2)

21F + 12S = $324 -------- (3)

20F + 12S = $320 -------- (4)

1F = $324 – $320 = $4

5F = $4 X 5 = $20

$80 – $20 = $60

3S = $60 , S = $60 ÷ 3 = $20 , $4 + $20 = $24

Q12a. 31 → 15M = 1500CM, 1500CM ÷ 50CM = 30, 30 +1 = 31

Q12b. 60cm → 31 – 5 = 26, 26 – 1 = 25, 25 gaps = 1500cm, 1 gap = 1500cm ÷ 25 = 60cm

Q13. 85.9cm

35.2cm – 4.2cm = 31cm, 4U = 31cm, U = 31cm ÷ 4 = 7.75cm, 5U = 7.75cm X 5 = 38.75cm

38.75cm + 4.2cm = 42.95cm, 42.95cm x 2 = 85.9cm

Name : _____ (   )

Class : Primary 5 _____

Primary 5 Mathematics

2015 Continual Assessment One

Paper 1

Booklet A

3 March 2015

15 questions
20 marks

TOTAL TIME FOR BOOKLETS A & B : 50 MINUTES

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

(20 marks)

1) In 702 841, the digit 7 is in the _____ place.

(1) hundreds

(2) thousands

(3) ten thousands

(4) hundred thousands

2) 650 750 is _____ more than 620 250.

(1) 305

(2) 3050

(3) 30 050

(4) 30 500

3) The price of a car was $94 000 after being rounded off to the nearest thousand dollars. Which of the following could possibly be the original price of the car?

(1) $93 450

(2) $93 499

(3) $94 499

(4) $94 544

4) $353\ 651 = 300\ 000 + \boxed{\ ?\ } + 3000 + 600 + 51.$

What is the missing number in the box?

(1) 500

(2) 5000

(3) 50 000

(4) 500 000

5) Which one of the following decimals is the largest?

(1) 1.055

(2) 1.550

(3) 1.005

(4) 1.505

6) Express $4\dfrac{1}{50}$ as a decimal.

    (1) 4.02
    (2) 4.15
    (3) 4.20
    (4) 4.50

7) In 0.043, the digit 3 stands for _____ .

    (1) 3 ones
    (2) 3 tenths
    (3) 3 hundredths
    (4) 3 thousandths

8) Which one of the following has the same value as $8 + \dfrac{6}{20}$?

    (1) 8.02
    (2) 8.10
    (3) 8.30
    (4) 8.60

4

9) Which of the following shapes can be tessellated?
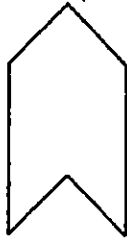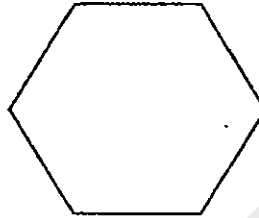
A	B	C	D

(1) A and B only
(2) A and D only
(3) B and C only
(4) C and D only

10) Find the value of $\frac{3}{7}$ x 4

(1) 6
(2) 18
(3) 21
(4) 126

5

11) What is the difference between the length of Rope B and the total length of Rope A and Rope C?

Rope	Length
A	6.05 m
B	7.89 m
C	2.60 m

(1)   0.76 m

(2)   5.96 m

(3)   6.81 m

(4)   12.86 m

12) Ashton had 90 mangoes. He sold $\frac{5}{6}$ of the mangoes. How many mangoes were left?

(1)   15

(2)   20

(3)   45

(4)   75

6

13) What is the missing number in the box below?

$$1.72 = 1 + \frac{3}{5} + \boxed{?}$$

(1) $\frac{1}{50}$

(2) $\frac{3}{25}$

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

(4) $\frac{18}{25}$

14) Dave spent $\frac{1}{5}$ of his money on a file and $\frac{2}{3}$ of it on a notebook. What fraction of his money did he have left?

(1) $\frac{2}{15}$

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

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

(4) $\frac{13}{15}$

15) Madison bought a tea set which consists of a teapot and 5 teacups for $257. The teapot costs $17 more than each teacup. Find the cost of 1 such teacup.

(1) $40

(2) $48

(3) $114

(4) $120

End of Booklet A

Name : _____.(   )

Class : Primary 5 _____
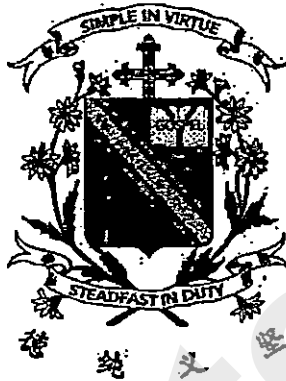
Primary 5 Mathematics

2015 Continual Assessment One

Paper 1

Booklet B

3 March 2015

15 questions
20 marks

TOTAL TIME FOR BOOKLETS A & B : 50 MINUTES

<u>INSTRUCTIONS TO CANDIDATES</u>
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)
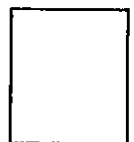
Do not write in this space.

16)   Round off 11.304 to 2 decimal places.

Ans : _____

17)   Mrs Randy drove from the supermarket to her home which was 9.8 km away. After driving 4.35 km, she stopped at a petrol station along the way. How much further did she have to drive before she reached

Ans : _____ km

18)   What is the value of $20 \div (6 - 4) + 8$?

Ans : _____

2

19) Mrs Swift had a piece of ribbon of length 1 m. She cut off 26 cm of it. What fraction of the ribbon did she have left? Give your answer in the simplest form.

Ans : _____

20) Nikita had some money. She used $\frac{1}{4}$ of it on a storybook and $\frac{1}{3}$ of it on a birthday gift. The storybook and the birthday gift cost $63 altogether. How much money did she have left?

Ans : $ _____

21) What is the missing fraction represented by R? Give your answer in the simplest form.

Ans : _____

3
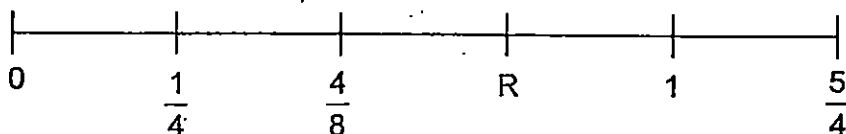
22) The population of Watiki Town, when rounded off to the nearest hundred, was 18 000. What could be the largest possible population of Watiki Town?

Ans : _____

23) Express $\dfrac{47}{8}$ as a mixed number.

Ans : _____

24) What is 67.05 x 9?

Ans : _____

4

25) How many **more** squares must be shaded so that only $\frac{1}{3}$ of the figure is left **unshaded**?
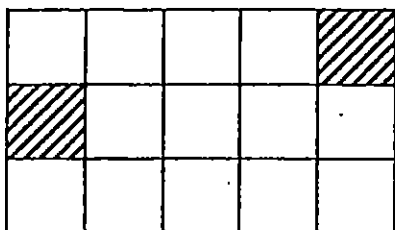
Ans : _____

5

Do not
write in
this space.

26) A string measuring 161 cm long was cut into 7 equal pieces. Myra used 4 such pieces to tie a box. Find the total length of the string she used to tie the box.

Ans : _____ cm

27) Rayna had $\frac{9}{10}$ m of cloth. Cerys had $\frac{1}{2}$ m of cloth less than Rayna. How much cloth did they have altogether? Leave your answer as a mixed number.

Ans : _____ m
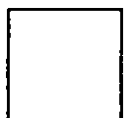
28) Annie, Brenda and Calista collected a total of 126 beads. Annie and Brenda collected 71 beads altogether. Annie and Calista collected 69 beads altogether. How many beads did Annie collect?

Ans : _____

29) The combined age of Tessa and Kristen is 83 years old. Tessa is 9 years younger than Kristen. What is Kristen's age?

Ans : _____

7
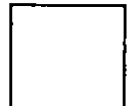
30) In the tessellation below, the unit shape is . Shade the 2 unit shapes that are tessellated **wrongly**.
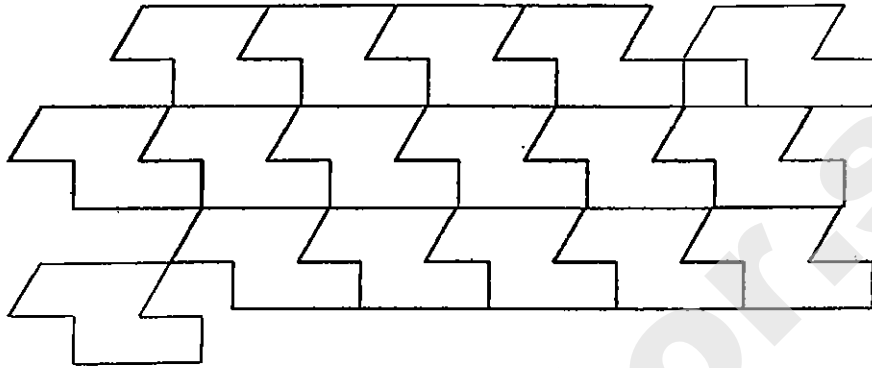
End of Paper 1

8

Name : _____ (   )

Class : Primary 5_____

Primary 5 Mathematics

2015 Continual Assessment One

Paper 2

3 March 2015

Paper 1	40
Paper 2	60
Total Marks	100

TOTAL TIME FOR PAPER 2 : 1 HOUR 40 MINUTES

<u>INSTRUCTIONS TO CANDIDATES</u>

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 ALLOWED.

This booklet consists of 17 printed pages including the cover page.

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.   (10 marks)

1)   A school paid $235.60 for 8 similar balls and 6 similar hula hoops. Each ball cost $20.45. What is the cost of each hula hoop?

Ans : $ _____

2)   Nadia's monthly allowance is $900. Every month, she spends $560 and saves the rest. What fraction of her monthly allowance does she save? Leave your answer in the simplest form.

Ans : _____

2

3) Every 6 cans of apple juice cost $5.80. Rudy planned to buy 24 cans of apple juice. She only had $3.25. How much more money did she need?

Ans : $ _____

4) At Happy Shopping Centre, shoppers would receive a $20 voucher for every $150 spent. Mrs Tim spent $2160 at the shopping centre. What was the total value of the vouchers that she received?

Ans : $ _____
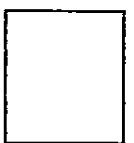
3

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

4
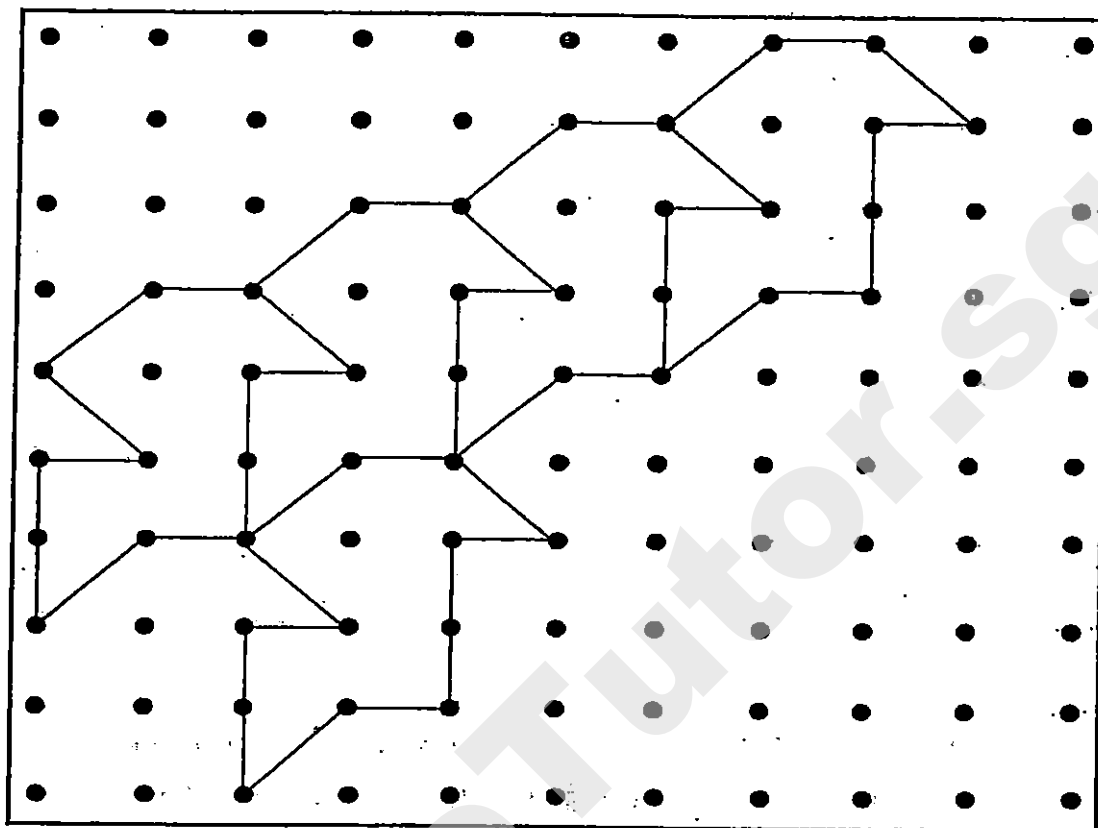
For questions **6** to **18**, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in the brackets ( ) at the end of each question or part-question.   (50 marks)

6)   Jadine sold thrice as many cupcakes as Lancy. Dilly sold half of what Jadine sold. The 3 children sold 4356 cupcakes altogether. How many cupcakes did Jadine and Dilly sell altogether?

Ans : _____ (3 m)

5

7) Duncan and Brena had the same amount of money. Duncan spent $19 and Brena spent $65. Then Duncan had thrice of what Brena had. How much did Duncan have in the end?

Ans : _____ (3 m)

6
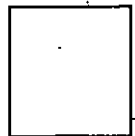
8) Cedric read $\frac{4}{9}$ of a book. He finished reading the rest of the book in the next 4 days. He read 55 pages each day in these 4 days. How many pages are there in the book?

Ans : _____ (3 m)

7

9) At a bakery, Ginny paid $18.40 altogether for a curry puff and 9 fruit tarts. Shaun paid $29.80 altogether for a curry puff and 15 fruit tarts. Xinxin bought 5 fruit tarts. How much did Xinxin pay for the 5 fruit tarts?

Ans : _____ (3 m)

8
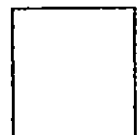
10) Yixuan cuts a 9-m ribbon into five pieces. Three of the pieces measure 1.46 m each. The 4th piece measures 2.18 m. What is the length of the last piece of ribbon?

Ans : _____ (3 m)

9
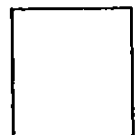
11) The table below shows the wages for part-time workers working in a restaurant.

Weekdays	$5.50 per hour
Weekends	$7.00 per hour

a) Anthea worked from Tuesday to Sunday for 4 weeks. She worked 6 hours a day. How much was she paid in all?

b) Kelly worked 5 hours a day on weekdays only. How many days did she need to work to earn a total of $1650?

Ans : a) _____ (2 m)

b) _____ (2 m)

10
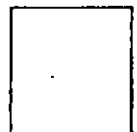
12) Alisa started spending her pocket money on Monday. On each day, she spent $0.55 more than the amount spent the day before. She spent a total amount of $28 from Monday to Friday. Find the amount she spent on Monday.

Ans : _____ (4 m)

11
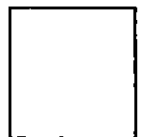
13) Mrs Amos baked 58 more rainbow cakes than cheese cakes to sell at a funfair. After she sold half of the cheese cakes, there were 100 more rainbow cakes than cheese cakes. How many cakes did Mrs Amos bake altogether at first?

Ans : _____ . (4 m)

12
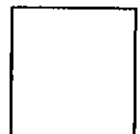
14) Joan is 19 years old this year. In 8 years' time, her grandmother will be three times as old as she is. How old was her grandmother 4 years ago?

Ans : _____ (4 m)

13
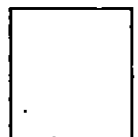
15) Wilmer Store held a promotion during the Christmas season.

> **SPECIAL OFFER!**
>
> Disney Character T-shirts : 2 for $11.00
>
> Disney Character Shorts : 5 pairs for $17.60

a) Mrs Henson planned to spend $88 on each type of item. How many more pairs of shorts than T-shirts could she buy?

b) Mrs Yamato bought 10 T-shirts and 10 pairs of shorts. She gave the cashier $100. How much change did she receive?

Ans : a)_____ (2 m)

b)_____ (2 m)

16) A hawker bought some potatoes. He used $\frac{1}{3}$ of the potatoes on Monday, $\frac{1}{6}$ of it on Tuesday and $\frac{2}{9}$ of it on Wednesday. At the end of the three days, he had 420 kg of potatoes left.

a) How many kg of potatoes did he use altogether on Tuesday and Wednesday?

b) How many kg of potatoes did the hawker buy at first?

Ans : a) _____ (4 m)

b) _____ (1 m)

15
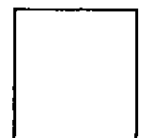
17) Adam put a total of 2250 paper cranes into 5 blue bottles and 2 green bottles. The total number of paper cranes in the green bottles was twice of the total number of paper cranes in the blue bottles. There were an equal number of paper cranes in each of the blue bottles. The first green bottle contained 3 times as many paper cranes as the second green bottle.

a) How many paper cranes were there in each blue bottle?

b) How many paper cranes were there in the first green bottle?

Ans : a) _____ (3 m)

b) _____ (2 m)
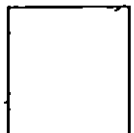
18) Tania had twice as many game cards as Jovan. Kayden had twice as many game cards as Tania. The 3 children had 357 game cards altogether.

a) How many game cards did Jovan have?

b) How many game cards must Kayden give to Tania and Jovan separately so that all 3 of them had the same number of game cards?

Ans : a) _____ (1 m)

b) Tania : _____

Jovan : _____ (4 m)

End of Paper
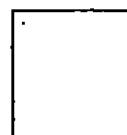
17

EXAM PAPER 2015
LEVEL   : PRIMARY 5
SCHOOL   : CHIJ ST NICHOLAS GIRLS SCHOOL (PRIMARY)
SUBJECT : MATHEMATICS
TERM   : CA1

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

Q16. 11.30   Q17 5.45km ➔ 9.8 − 4.35 = 5.45

Q18. 18 ➔ 20 ÷ (6-4) + 8 = 20÷2+8=10+ 8=18

Q19. $\frac{37}{50}$ ➔ 1m = 100cm, 100 −26= 74, $\frac{74}{100} = \frac{37}{50}$

Q20. $45 ➔ $\frac{1}{4}+\frac{1}{3} = \frac{3}{12} + \frac{4}{12} = \frac{7}{12}$, 7u ➔63, 1u ➔ 63÷7=9, 1 − $\frac{7}{12} = \frac{5}{12}$, 5u ➔ 9 x 5 = 45

Q21. $\frac{3}{4}$ ➔ $\frac{1}{4} = \frac{2}{8}$, $\frac{4}{8} + \frac{2}{8} = \frac{6}{8} = \frac{3}{4}$

Q22. 18 049 ➔ 18 049 ≈ 18 000

Q23. $5\frac{7}{8}$ ➔ $\frac{47}{8} = 5\frac{7}{8}$

Q24. 603.45 ➔ 67.05 x 9 = 603.45

Q25. 8 ➔ $\frac{1}{3} = \frac{5}{15}$, 15 − 5 = 10, 10 − 2 = 8

Q26. 92cm ➔ 1 PIECE ➔ 161÷7 = 23, 23 X 4 = 92

Q27. $1\frac{3}{10}$m ➔ $\frac{1}{2} = \frac{5}{10}$, Rayna ➔ $\frac{9}{10}$, Cerys ➔ $\frac{9}{10} + \frac{4}{10} = \frac{13}{10} = 1\frac{3}{10}$

Q28. 14 ➔ A + B ➔ 71, A + C ➔ 69, 2A +B+C ➔ 69 + 71 = 140, A ➔ 140 − 126=14

Q29. 46 ➔ T +K ➔ 83, 83 − 9 = 75, 74 ÷ 2 = 37, 37 + 9 = 46

Q30. **SEE PICTURE**
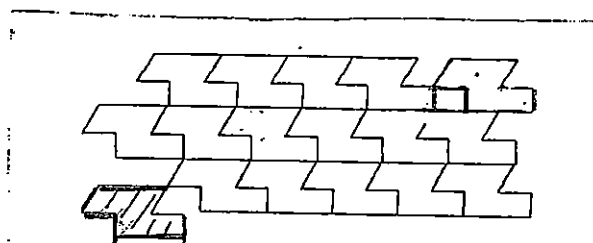
Q1. $12➔ 8B +6H 235.60, 20.45 x 8 = 163.60, 6H➔ 235.60 – 163.60 = 72, 72 ÷ 6 = 12

Q2. $\frac{17}{45}$ ➔saves➔ 900 – 560 = 340, $\frac{340}{900} = \frac{170}{450} = \frac{85}{225} = \frac{17}{45}$

Q3. $19.95 ➔No. of sets➔ 24 ÷6=4, 4 x 5.80 = 23.20, 23.20 -3.25=19.95

Q4. $280➔ 2160 ÷ 150 = 14R60, 14 x 20 = 280

Q5. **SEE PICTURE**
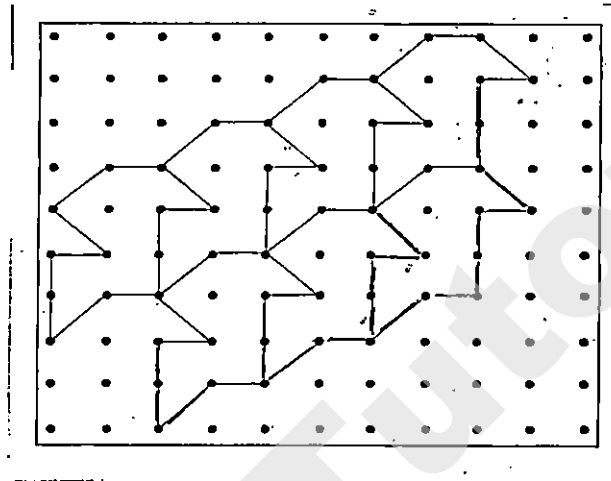
Q6. 3564➔ 11u➔ 4356, 1u➔ 4356 ÷11 = 396, 6u +3u = 9u, 9u ➔396 x 9 =3564

Q7. $69 ➔2u➔ 65 – 19 =46, 1u➔ 46 ÷2 = 23, 23 x 3 = 69

Q8. 396➔ 9u – 4u =5u, 5u➔ 55 x 4 = 220, 1u➔ 220 ÷ 5 = 44, 44 x 9 = 396

Q9. $9.50 ➔C +9F➔18.40, C + 15F➔ 29.80, 6F➔ 29.80-18.40=11.40, 1F➔ 11.40 ÷6=1.90, 1.90 x 5 =9.50

Q10. 2.44m➔ 1.46 x 3 = 4.38, 4.38 + 2.18 = 6.56, 9 – 6.56 = 2.44

Q11a. $864➔ Tuesday to Friday : 6 x $5.50 = $33, $33 x 4 days = $132, 4 weeks : $132 x 4 = $528, Sat to Sundays : 6 x $7 = $42, $42 x 2 days = $84, 4 weeks : $84 x 4 = $336, $528 + $336 =$864

Q11b. 60➔ 1 day 5.50 x 5 = 27.50, 1650 ÷ 27.50 =60

Q12. $4.50➔ 0.55 x 10 = $5.50, $28- $5.50 = $22.50 , $22.50 ÷ 5 = $4.50

2

Q13. 226➔ 1u➔ 100-58=42, cheese cakes➔ 42 x 2 = 84, rainbow cakes➔ 84 + 58 = 142, total➔ 142 + 84 = 226

Q14.69➔➔ 81 – 8 = 73, 73 – 4 = 69

Q15a. 9 ➔88 ÷ 11 = 8, T shirt➔ 8 x 2 = 16, 88 ÷ 17.60 = 5, 5 x 5 = 25, 25 – 16 =9

Q15b. $9.80➔ 11 x 5 = 55, 17.60 x 2 = 35.20, 35.20 +55 =90.50, 100-90.20 =9.80

Q16a. 588kg   Q16b. 1512kg ➔ 6u + 3u +4u =13u, 18u – 13u = 5u, 1u➔ 420 ÷ 5 = 84, 7u ➔84 x 7 = 588, 18u➔ 84 x 18 = 1512

Q17a. 150   Q17b. 1125 ➔ Total blue➔ 2250 ÷ 3 = 750, Total green ➔750 x 2 = 1500, 1 blue bottle➔ 750 ÷ 5 = 150, 1500 ÷ 4 =375, 375 x 3 = 1125

Q18a. 51   Q18b. Tania : 17   Q18c. Jovan : 68
7u➔ 357, 1u➔ 357 ÷ 7 = 51, 51 ÷ 3 =17, 51+ 17 = 6

Anglo-Chinese School (Junior)

CONTINUAL ASSESSMENT 1 (2015)
PRIMARY 5

MATHEMATICS

Tuesday	3 March 2015	1 hour 30 min

INSTRUCTIONS TO PUPILS

DO NOT TURN OVER THE PAGES UNTIL YOU ARE TOLD TO DO SO

Follow all instructions carefully.

There are 24 questions in this booklet.

Answer ALL questions.

You are **not** allowed to use a calculator.

Name : _____ (   )

Class : 5.(.)

Parent's Signature:_____

Section	Possible Marks	Marks Obtained
A	10	
B	15	
C	25	
Total	50	

This question paper consists of 14 printed pages. (Inclusive of cover page)

Optical Answer Sheet

1

2

3

4

5

6

7

Section A

Questions **1** to **4** carry 1 mark each. Questions **5** to **7** carry 2 marks each.
For each question, four options are given. One of them is the correct answer.
Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the
Optical Answer Sheet (OAS). (10 marks)

1. There are 435 500 books in a library. Express this number to the nearest thousand.

   1) 430 000
   2) 435 000
   3) 436 000
   4) 440 000

2. Find the value of $1 - \dfrac{2}{3} - \dfrac{1}{5}$.

   1) $\dfrac{1}{15}$

   2) $\dfrac{2}{15}$

   3) $\dfrac{8}{15}$

   4) $\dfrac{9}{15}$

3. The table shows the parking charges at a car park.

7.00 a.m. to 6.00 p.m.	$1 per 30 min or part thereof
After 6.00 p.m.	$0.50 per hour or part thereof

Mr. Li parked his car from 4.40 p.m. to 7.30 p.m. How much did he pay?

1) $3.50

2) $4.50

3) $3.00

4) $4.00

4. Which one of the following numbers is the smallest?

1) 1.1

2) 1.01

3) 1.001

4) 1.101

5. Vera paid $119 for 2 blouses and a skirt. Each blouse cost three times as much as the skirt. What was the total cost of a blouse and a skirt?

1) $34

2) $51

3) $68

4) $102

Sub-Total :

6.   After selling 3kg of flour on Saturday and 4 kg of flour on Sunday, the grocer had 5 kg of flour left. What fraction of the total amount of flour did he sell on Sunday?

1) $\dfrac{5}{12}$

2) $\dfrac{7}{12}$

3) $\dfrac{1}{3}$

4) $\dfrac{1}{4}$

7.   The figure below, not drawn to scale, is made up of 4 identical rectangles. The length of each rectangle is 23 cm and the width is 11 cm. Find the perimeter of the figure.
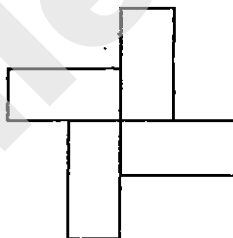
1)   173 cm
2)   184 cm
3)   272 cm
4)   280 cm

Section B

Questions **8** to **12** carry 1 mark each. Questions **13 to 17** 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. (15 marks)

8. $128 \times (7 + 5) \div 6 - 13 = \boxed{}$

Answer : _____

9. $1\,020\,000 \div \boxed{} = 1\,020 \times 10.$

Answer : _____

10. Find the value of $\dfrac{2}{3} + \dfrac{7}{8}$. Give your answer as a mixed number.

Answer : _____

Sub-Total : $\boxed{}$

11. Russell took 2 h 50 min to complete his homework. He completed his homework at 13 20. At what time did Russell start on his homework? (Give your answer in the 24-hour clock format.)

Answer : _____

12. Aminah is facing South. She makes a turn and is now facing West. If she turns in an anti-clockwise direction, how many right angles does she turn?
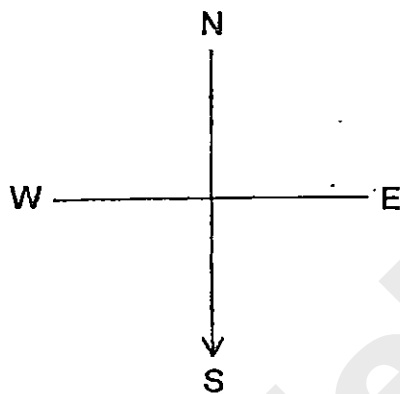
Answer : _____

13. There are 12 lamp posts lined up in a row and they are spaced out equally. The distance between the second lamp post and eighth lamp post is 510 m. What is the distance between the first and the last lamp post?

Answer : _____ m

Sub-Total :

14. Complete the number pattern below.

0.2, 0.4, 1.2, 4.8, _____, 144, 1 008.

Answer : _____

15. There were 920 people at a concert. For every 3 men, there were 2 women. How many men were there at the concert?

Answer : _____

16. The mass of a sack of rice was 3 kg. Mrs Siah gave $\frac{1}{2}$ of it to her neighbour and cooked $\frac{5}{6}$ kg of it for dinner. How much rice had she left? (Give your answer as a fraction in its simplest form.)

Answer : _____ kg

Sub-Total :

17. The line graph shows the number of books borrowed from the library from January to June. 75 of the total number of books borrowed in February and June were not returned to the library. What fraction of the total number of books borrowed in February and June were returned? (Give your answer in its simplest form.)
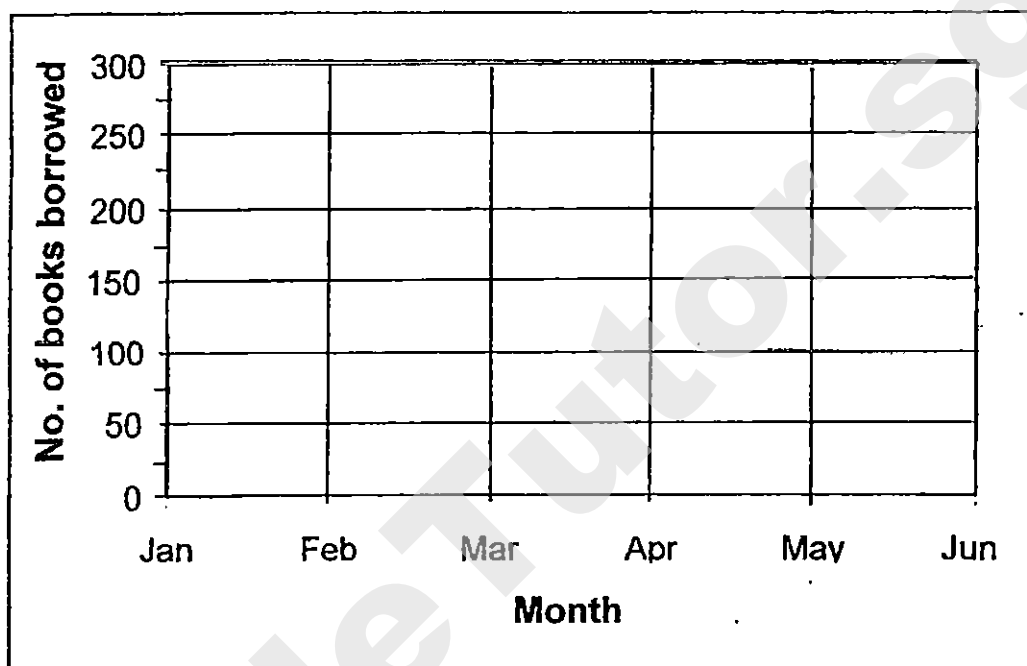
Answer : _____

For questions **18** to **24**, show your working clearly 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.   . (25 marks)

18. The mass of 4 tables is twice as much as 5 chairs. Given that the mass of 8 tables and 6 chairs is 650 kg, what is the mass of 1 chair?

Answer : _____ [3]

19. The figure below is made up of a square ABCD and 4 identical triangles. The perimeter of the square is 92 cm. Find the area of the unshaded part of the square.

Answer : _____ . [3]

Sub-Total :
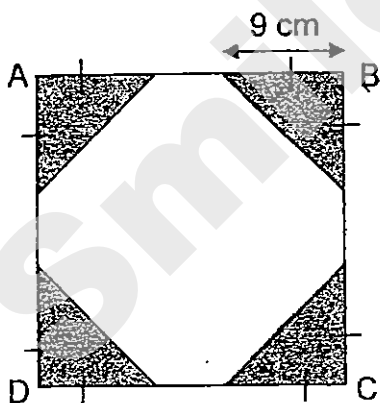
20.   (a) The figure below is made up of squares. Shade **two** more squares
            so that the figure has a line of symmetry.   [1]
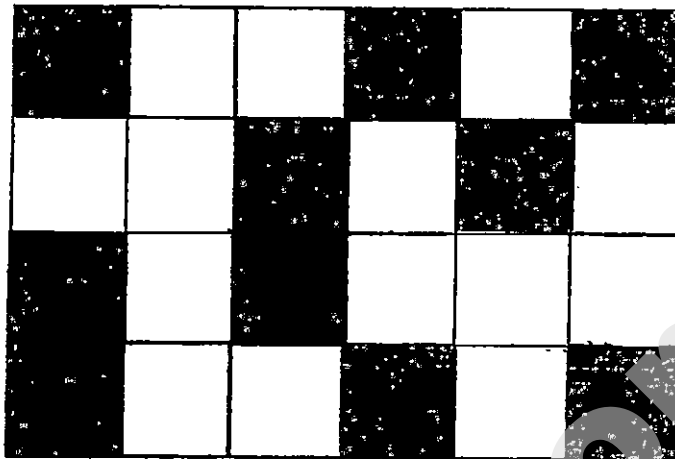
      (b) The pattern in the box shows part of a tessellation. Extend the
           tessellation by drawing **three** more unit shapes in the space
           provided in the box.   [2]
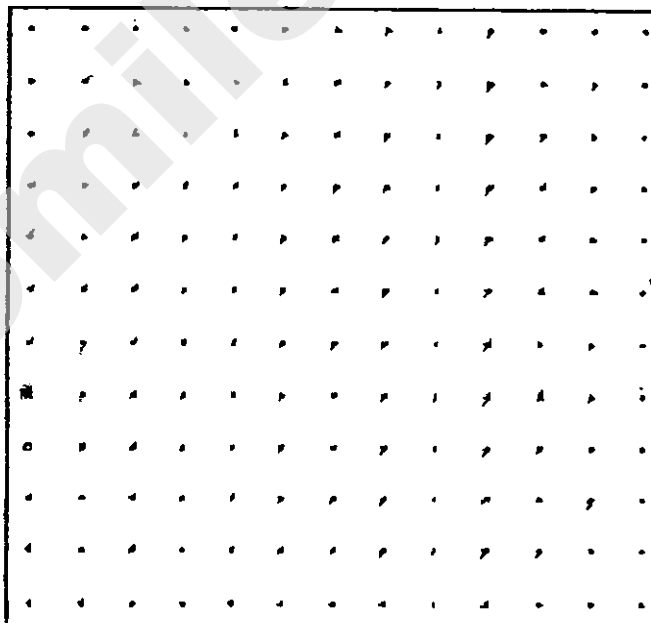
21. Angelin and Joshua went shopping together with a total sum of $99. Angelin spent twice as much as Joshua. The amount of money Joshua had left was $12 more than what he had spent. He had twice as much money left as Angelin. How much did Joshua have at first?

Answer : _____ [4]

22. Three friends, Ali, Betty and Chin Seng had 144 stickers in all. Ali gave some stickers to Betty and Betty's stickers were doubled. Then Betty gave some of her stickers to Chin Seng and Chin Seng's stickers were doubled. In the end, the three friends had an equal number of stickers each. How many stickers did Ali have at first?

Answer : _____ [4]

23. The shirts sold in a shop are sorted into 4 sizes: large, medium, small and extra-small. $\frac{1}{3}$ of the shirts are large and $\frac{2}{9}$ of the shirts are medium. $\frac{3}{8}$ of the remaining shirts are small and the rest are extra-small. There are 126 more large-sized shirts than small-sized shirts. How many medium-sized shirts are there in the shop?

Answer : _____ [4]

Sub-Total :

24. Three bakeries sold the same number of cupcakes over the weekend. Delicious Bakery sold $\frac{3}{4}$ of its cupcakes. Fantastic Bakery sold $\frac{2}{3}$ of its cupcakes and Yummy Bakery sold $\frac{1}{2}$ of its cupcakes. They had a total of 870 cupcakes at first. How many cakes did each bakery sell?

Answer : _____ [4]

End of Paper

EXAM PAPER 2015
LEVEL : PRIMARY 5
SCHOOL : ANGLO – CHINESE SCHOOL (JUNIOR)
SUBJECT : MATHS
TERM : CA1

Q1	Q2	Q3	Q4	Q5	Q6	Q7			
3	2	4	3	3	3	2			

Q8. $128 \times 2 = 256$ $256 - 13 = 243$ ANS: : 243

Q9. $1020 \times 10 = 200$ ANS : 100

Q10.
$$\frac{2}{3} = \frac{16}{24}$$

$$\frac{7}{8} = \frac{21}{24}$$

$$\frac{37}{24} = 1\frac{13}{24}$$ ANS : $1\frac{13}{24}$

Q11. ANS : 1030hr

Q12 . ANS : 3 right angles

Q13.
6 gaps ➔ 510M
1 gap ➔ $510 \div 6 = 85$
11 gaps ➔ $11 \times 85 = 935$ ANS : 935m

Q14. $1008 - 144 = 864$ $3.6 \times 4 = 144$ ANS : 144

Q15.
1 set ➔ $3 + 2 = 5$
? sets ➔ $920 \div 5 = 184$
Men ➔ $184 \times 3 = 552$ ANS : 552 men

Q16. $3 \times \frac{1}{2} = 1\frac{1}{2}$ $1\frac{1}{2} - \frac{5}{6} = \frac{2}{3}$ ANS : $\frac{2}{3}$

Q17
$275 + 250 = 525$
$525 - 75 = 450$
$\underline{450} \div 25 = 18 \div 3 = 6$
$525 \div 25 = 21 \div 3 = 7$ ANS : 6/7

Q18
 4 tables
10 chairs
 8 tables
20 chairs + 6 chairs = 650kg
1 chair ➔ 650 ÷ 26 = 25kg.   ANS: 25kg

Q19
$92 \div 4 = 23$ (1 side of square)
$23 \times 25 = 529$ (area of square)
4 small triangles ➔ 2 squares
$9 \times 9 \times 2 = 162$
$529 - 162 = 367cm^3$ ANS: $367cm^2$

Q20a. SEE PICTURE

Q20b. SEE PICTURE

Q21 SEE PICTURE

99 − 12 − 6 = 81

9U ➔ 81

1U ➔ 9

9 X 4 + 12 = $48

ANS : $48
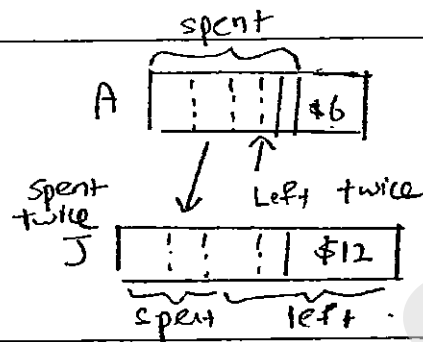
Q22.

144 ÷ 3 = 48

48 ÷ 2 = 24 (C S before he received from B)

48 + 24 = 72 (B before she gave to CS)

72 − 2 = 36 (B before she gave to A)

48 + 36 = 84

ANS : 84

Q23.

3U ➔ 126

1U ➔ 126 ÷ 3 = 42

4U ➔ 4 x 42 = 168

ANS: 168 medium − sized shirts

Q24.

Total 29 units

29U ➔ 870

1U ➔ 30

6U ➔ 6 x 30 = 180

ANS : 180

503 / CA1 / 5

METHODIST GIRLS' SCHOOL (PRIMARY)
Founded in 1887

CONTINUAL ASSESSMENT 2015
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 :   3 March 2015

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

(20 marks)

---

1. 600 000 + 8000 + 50 + 3 = ☐

    What is the number in the box?

    (1)   68 053
    (2)   68 503
    (3)   608 053
    (4)   680 503

2. 6 hundreds + 48 thousands = ☐

    What is the missing number in the box?

    (1)   48 600
    (2)   54 000
    (3)   486 000
    (4)   648 000

3. What is the value of 10 + 16 x 4 ÷ 2 − 1?

    (1)   26
    (2)   41
    (3)   74
    (4)   104

4. What is the closest estimate for 671 x 249?

    (1)   670 x 200
    (2)   670 x 250
    (3)   700 x 200
    (4)   700 x 250

2

5. What is the value of the digit 3 in 8 359 216?

   (1) 300 x 10

   (2) 300 x 100

   (3) 300 x 1 000

   (4) 300 x 10 000

6. Estimate the sum of 298 608 + 7 290 by first rounding off each number to the nearest thousand.

   (1) 305 900

   (2) 306 000

   (3) 306 600

   (4) 307 000

7. $\boxed{} - \dfrac{3}{4} = \dfrac{5}{12}$

What is the missing fraction in the box?

   (1) $\dfrac{1}{4}$

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

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

   (4) $\dfrac{7}{6}$

8. How many eighths are there in $3\dfrac{1}{4}$?

   (1) 13

   (2) 2

   (3) 14

   (4) 26

3

9. Which ~~What~~ one of the following does **not** have the same value of $\frac{5}{4}$?

    (1) $5 \div 4$

    (2) $4 \div 5$

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

    (4) $\frac{1}{2} + \frac{3}{4}$

10. Which one of the following fractions is greater than $\frac{3}{7}$?

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

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

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

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

11. How many hundreds are there in ten million?

    (1)   100

    (2)   1 000

    (3)   10 000

    (4)   100 000

12. What is the missing number in the box?

98 532 = 900 hundreds + ☐ tens + 32 ones

    (1)   85

    (2)   850

    (3)   8 500

    (4)   85 000

13. Mary has thrice as many beads as Peter. They have a total of 132 beads. how many more beads does Mary have than Peter?

    (1) 22
    (2) 33
    (3) 44
    (4) 66

14. Mrs Lee, a fruiterer, had 315 bags of 3 apples each. She bought 30 more apples and repacked all the apples into packets of 5 apples each.
    How many packets of apples were there?

    (1) $315 \times (3 + 30) + 5$
    (2) $(315 \times 3) + 30 \div 5$
    (3) $(315 \times 3 + 30) \div 5$
    (4) $(315 \times 3) + (30 + 5)$

15. John spent $\frac{4}{9}$ of his money on transport, $\frac{1}{6}$ of it on food. What fraction of his money had he left?

    (1) $\frac{5}{18}$

    (2) $\frac{7}{18}$

    (3) $\frac{8}{18}$

    (4) $\frac{11}{18}$

5

METHODIST GIRLS' SCHOOL (PRIMARY)
Founded in 1887

CONTINUAL ASSESSMENT 2015
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 :   3 March 2015

Paper 1 Booklet A	/ 20
Paper 1 Booklet B	/ 20
Paper 2	/ 40
TOTAL	/ 80

This booklet consists of 5 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)

16. Round off 649 249 to the nearest thousand.

    Ans: _____

17. Write seven million and seventy in numeral.

    Ans: _____

18. Write 7 845 912 in words.

    _____

    _____

19. The missing number in the box is _____.

    84 X 26 = 84 X 16 + 84 X ☐

    Ans: _____

20. What is the greatest possible whole number that can be rounded off to 9000?

    Ans: _____

2

21. What number must be added to 56 389 to make 500 000?

Ans: _____

22. $6\dfrac{1}{3} = (6 \times \dfrac{1}{3}) + (5 \times \dfrac{1}{3}) + (\boxed{} \times \dfrac{1}{3})$

What is the missing number in the box?

Ans: _____

23. Find the value of $7\dfrac{1}{6} - 2\dfrac{3}{4}$.

Ans: _____

24. $\dfrac{1}{3}$, $\dfrac{1}{2}$, $\dfrac{2}{3}$, $\dfrac{5}{6}$, $\boxed{}$

What is the missing number in the pattern above?

Ans: _____

25. Express $\dfrac{46}{9}$ as a decimal correct to 2 decimal places

Ans: _____

3

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    $7500 \div 500 = \boxed{} \times 3$

Ans: _____

27.   Mrs Tan made 250 tarts. She sells each tart for 60 cents.
       How much money will she get if she sells all the tarts?

Ans: $ _____

28.   In a bag, there are 25 potatoes.
       What is the least number of bags needed to pack 2789 potatoes?

Ans: _____

4

29 I am thinking of a 5-digit number between 40 000 and 50 000.

The digit in the hundreds place has a value of 800.

The digit in the ones place is the sum of the factors of 4.

The digit in the thousands place is 1 more than the digit in the hundreds place.

The digit in the tens place is the difference between the digit in the hundreds place and the digit in the ones place.

What is the number?

Ans: _____

30. Mrs Chong had a piece of cloth. She bought another $1\frac{3}{4}$ m of cloth. She gave away $\frac{1}{3}$ m of cloth to a friend. She had $2\frac{7}{12}$ m of cloth left. How much cloth did she have at first? Give your answer in the simplest form.

Ans: _____ m

End of Booklet B

5

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)

1. The difference between 2 numbers is 120. If one number is thrice the other number, what is the bigger number?

Ans : _____

2. Chitra decorated a hall. She used a 700-cm string and hung 2 types of shapes. At every 25 cm, she put a different shape onto the string in the sequence shown below. How many circles did she use?
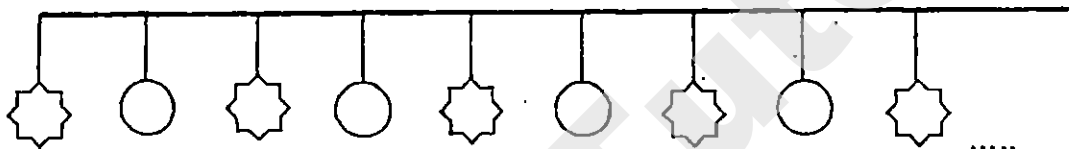
Ans: _____

3. The length of a rectangle is $1\dfrac{3}{5}$ m. Its breadth is $\dfrac{5}{8}$ m. What is the perimeter of the rectangle? Give your answer in the simplest form.

Ans: _____ m

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. Alice and Denise had an equal number of stickers at first. Alice gave away 30 of her stickers and Denise bought another 36 stickers. In the end, Denise had 4 times as many stickers as ~~Denise~~ Alice. How many stickers did Alice have at first?

Ans: _____ [3]

5. The table shows the charges at a car park.

First hour	$3
Every additional 30 minutes or part thereof	$1.50

Mr Tan parked his car from 9 a.m. to 12.35 p.m.
How much did he have to pay?

Ans: _____ [3]

6. The mass of a wooden crate full of oranges is 23 kg. When the crate is $\frac{1}{4}$ full of oranges, it weighs 9 kg. What is the mass of the wooden crate in the box? Give your answer to 2 decimal places.

Ans: _____ [3]

7. A mouse dropped into a hole which was 1 m deep. It tried to climb out of the hole. At every second, it climbed $\frac{5}{12}$ m upwards but slid downwards by $\frac{1}{3}$ m. In the last second, it managed to climb out of the hole without sliding backwards. How many seconds did the mouse take to climb out of the hole?

Ans: _____ [3]

4

8. 20 identical lamp posts are placed 10 m apart along a straight road such that both ends of the road have a lamp post each. The width of each lamp post is 20 cm. How long is the road? Give your answer in m.

Ans: _____ [3]

9. Mr Lim is 63 years old and his son is 27 years old.
    How many years ago was Mr Lim 4 times as old as his son?

Ans: _____ [3]

5

0. Ali, Bala and Charles had \$230. Ali spent $\frac{6}{7}$ of his money. Bala gave \$50 to his brother. Charles spent $\frac{1}{2}$ of what Ali had spent. They have the same amount of money left.

(a) How much money does each of them have in at the end?

(b) How much money did Charles have at first?

Ans: (a) _____ [3]

(b) _____ [1]

11. There are 320 more boys than girls in a school. $\frac{7}{10}$ of the boys and $\frac{1}{2}$ of the girls wear spectacles. The number of boys who wear spectacles is the same as the number of girls who wear spectacles.

(a) What fraction of the pupils in the school do not wear spectacles? Give your answer in the simplest form.

(b) How many pupils wear spectacles in the school?

Ans: (a) _____ [1]

(b) _____ [3]

7

12. Brenda had some 50-cent coins and Sally had some 20-cent coins. Brenda had 6 fewer coins than Sally. Sally had $2.70 less than Brenda.
(a) How much money did Brenda have?
(b) How many 20-cent coins did Sally have?

Ans:(a) _____ [3]

(b) _____ [1]

8

13. Joanna received $90 from the sale of 5 similar handbags, 3 similar wallets and 1 backpack. She sold 1 wallet and 1 backpack for $29. She also sold 1 handbag and 1 wallet for $17. How much did she sell one wallet for?

Ans: _____ [4]

END

EXAM PAPER 2015
LEVEL : PRIMARY 5
SCHOOL : METHODIST GIRLS SCHOOL (PRIMARY) SCHOOL
SUBJECT : MATH
TERM : CA1

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

Q16. ANS : 649000

Q17. ANS : 70000 70

Q18. ANS : Seven million, eight hundred and forty five thousand, nine hundred and twelve.

Q19. ANS : 10

Q20. ANS : 9499

Q21. ANS : 443611

Q22. ANS : 8

Q23. ANS : $4\frac{5}{12}$

Q24. ANS : $\frac{6}{6}$

Q25. ANS : 5.11

$46 \div 9 = 5.111$

Q26. ANS : 5

$7500 \div 500 = 1500$

$1500 \div 3 = 500$

$75 \div 5 = 15$

$15 \div 3 = 5$

Q27. ANS : $150

$25 \times 6 = 150$

Q28. ANS : 112 bags

$2789 \div 25 = 111r14$

$111 + 1 = 112$

Q29. ANS : 49, 817

$1 + 2 + 4 = 7$

Q30. ANS : 1⅙m

$2\frac{7}{12} + \frac{1}{3} = \frac{31}{12} + \frac{4}{12} = \frac{35}{12}$

$\frac{35}{12} - 1\frac{3}{4} = \frac{35}{12} - \frac{21}{12} = \frac{14}{12} = 1\frac{2}{12} = 1\frac{1}{6}$

Q1. ANS : 180

3U – 1U = 2U

2U → 120

1U → 120 ÷ 2 = 60

60 X3 = 180

Q2. ANS : 14 circles

700 ÷ 25 = 28

700 ÷ 25 = 28

28 ÷ 2 = 14

Q3. ANS : $4\frac{9}{20}m$

$1\frac{3}{5} = \frac{8}{5}$

$\frac{8}{5} + \frac{5}{8} = \frac{89}{40}$

$\frac{89}{40} \times 2 = \frac{89}{20}$

$\frac{89}{20} = 4\frac{9}{20}$

Q4. ANS : 52 stickers

4U –1U = 3U

3U – 30 + 36 = 66

1U → 66 ÷ 3 = 22

22 + 30 = 52

Q5. ANS: $1200

1.50 x 6 = 12.00

9.00 + 3.00 = 12.00

Q6. ANS : 4.33kg

1C + or → 23

1C + $\frac{1}{4}$ or → 9

0C + $\frac{3}{4}$ or → 14

0C + $\frac{1}{4}$ OR → 14 ÷ 3 = 4.666

9 – 4.666 = 4.334

4.334 ≈ 4.33

Q7. ANS : 8 seconds

$\frac{1}{12}$ → 1 seconds

$\frac{12}{12} - \frac{5}{12} = \frac{7}{12}$ → left

$\frac{7}{12} \div \frac{1}{12} = 7$

7 + 1 = 8

PAGE 2

Q8. ANS : 194M
20 – 1 = 19
19 x 10 = 190
20 x 20 = 400
400cm ➔ 4m
190 + 4 = 194

Q9. ANS : 15 years ago
Age difference ➔ 63 – 27 = 36
4U – 1U = 3U
3U ➔ 36
1U ➔ 36 ÷ 3 = 12
27 – 12 = 15

Q10a. ANS : $15
230 – 50 =180
6 + 3 = 9
9 + 3= 12
12U ➔ 180
1U ➔ 180 ÷ 12 = 15

Q10b. ANS : $60
15 x 4 = 60

Q11a.. ANS : $\frac{5}{12}$ *pupils*
$\frac{10}{24} = \frac{5}{12}$
7 – 3 = 4
320 ÷ 4 = 80
7 + 7 = 14

Q11b. 1120 pupils
80 x 14 = 1120

Q12a. ANS : $6.50
3 x 0.50 = 6.50

Q12b. ANS : 19 coins
13 + 6 = 19

Q13. ANS: $8
1W + 1B ➔ 29
1W + 1H ➔ 17
17 + 29 = 46
90 – 46 = 44
44 – 17 = 27
27 ÷ 3 = 9
17 – 9 = 8

THE END

3

Anglo-Chinese School
(Junior)

THE BEST IS YET TO BE

SEMESTRAL ASSESSMENT 1 (2015)
PRIMARY 5

MATHEMATICS

PAPER 1
Booklet A

Wednesday 6 May 2015 **50 min**

INSTRUCTIONS TO PUPILS

DO NOT TURN OVER THE PAGES UNTIL YOU ARE TOLD TO DO SO

Follow all instructions carefully.

There are 15 questions in this booklet.

Answer ALL questions.

You are **not** allowed to use a calculator.

Name : _____ (   )

Class : 5.(   )

Parent's Signature: _____

This question paper consists of 8 printed pages. (Inclusive of 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 (OAS).

(20 marks)

1. Which set of numbers is arranged from the greatest to the smallest?

   1) 30 000, 31 000, 32 000, 33 000
   2) 912 000, 911 000, 910 000, 990 000
   3) 400 080, 408 000, 480 000, 400 800
   4) 513 900, 512 900, 501 900, 500 900

2. Estimate the sum of 9 287 and 9 503 by first rounding off each number to the nearest thousand.

   1) 18 000
   2) 18 800
   3) 19 000
   4) 20 000

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

   1) 7
   2) 8
   3) 12
   4) 24

4. Find the value of $\frac{3}{4} + \frac{2}{5}$.

1) $\frac{5}{9}$

2) $\frac{7}{20}$

3) $1\frac{3}{20}$

4) $2\frac{3}{20}$

5. Siti had the following coins in her coin pouch.
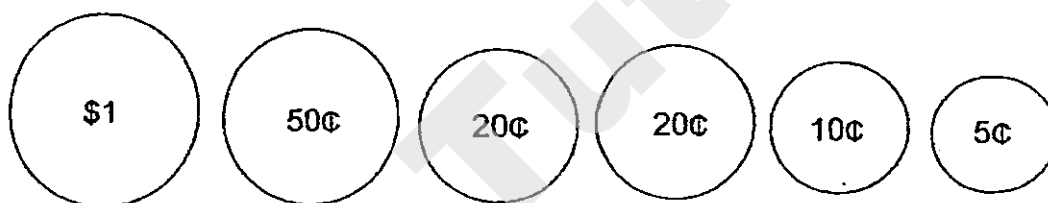
She took out only 3 coins from her pouch and placed them into a donation can. Which of the following amounts could be the amount taken out of her pouch?

1) $ 0.70

2) $ 0.85

3) $ 1.25

4) $ 1.50

6. The graph below shows the number of pairs of shoes sold after lunch time at a shoe

Sales at Shoe Shop
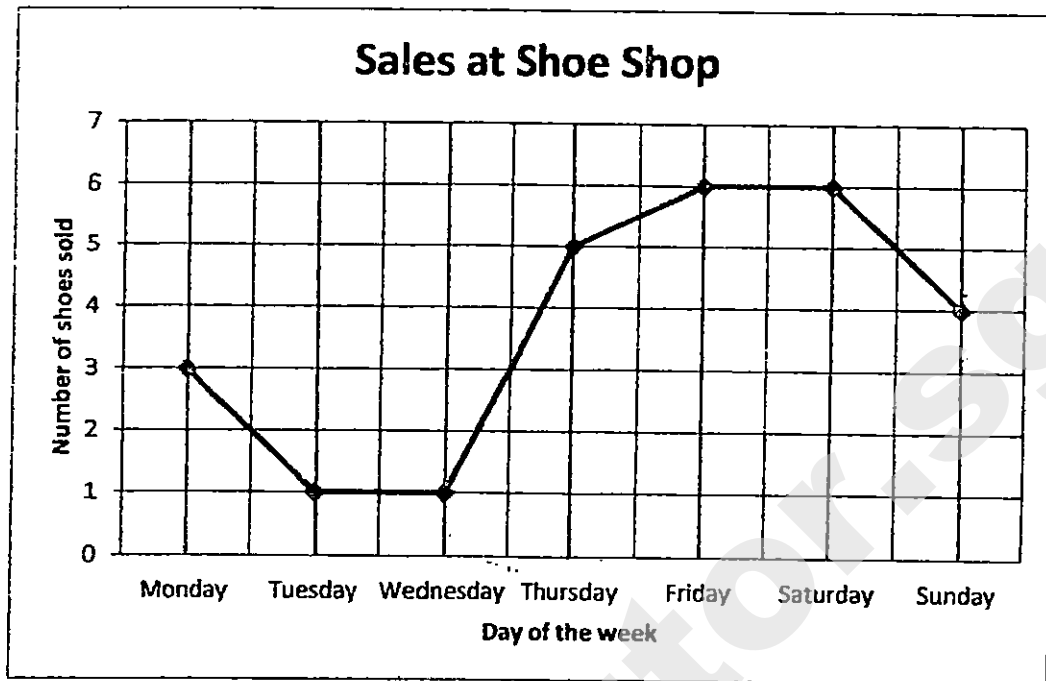
What is the total number of pairs of shoes sold from Tuesday to Friday?

1) 1
2) 6
3) 12
4) 13

7. There are 30 pupils in a class. 18 of them wear spectacles. Find the ratio of the number of pupils who do not wear spectacles to the total number of pupils.

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

8. The following shaded triangles are not drawn to scale. Which triangle has an area of 42 cm²?

1)

7 cm

10 cm

2)

10 cm

7 cm

12 cm

3)

10cm
~~12 cm~~

8cm
~~10cm~~

~~7 cm~~
6cm

4)

10 cm

7cm

12 cm
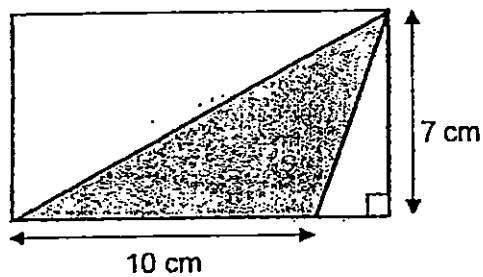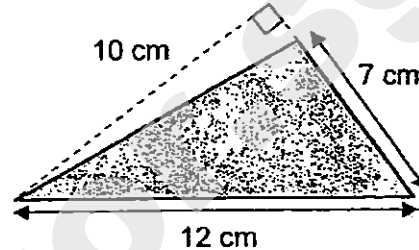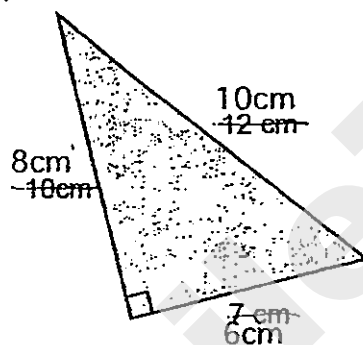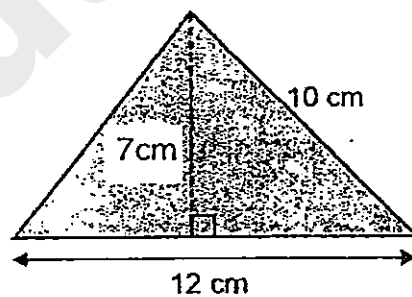
9. The ratio of Faizal's age to Elijah's age is 2 : 3. Elijah is 15 years old. What is Faizal's age?

1) 5
2) 10
3) 12
4) 20

10. Below are some figures. Which one is symmetrical?

1)
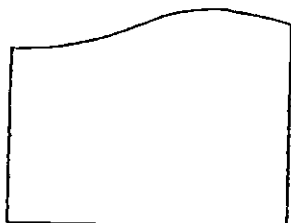
2)
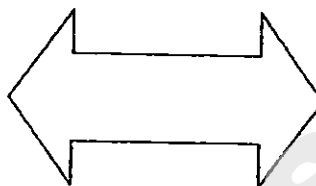
3)
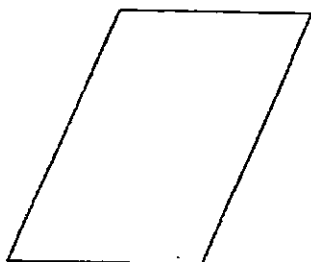
4)

11. Complete the number pattern below.

5 678, 4 567, 3 456, _____, 1 234

1) 2 345
2) 2 456
3) 3 567
4) 4 567

12. The ratio of the perimeters of two squares is 3 : 5. The perimeter of the larger square is 40cm. What is the length of one side of the smaller square?

1) 2 cm
2) 6 cm
3) 8 cm
4) 30 cm

13. Trey bought a total of 20 plates and cups. Each cup cost $3. Each plate cost 3 times as much as a cup. He spent $108 on the plates and cups. How many plates did he buy?

1) 4
2) 8
3) 12
4) 16

14. $\frac{1}{3}$ of the beads in a box are red. $\frac{1}{6}$ of the remainder are yellow beads and the rest are blue beads. What fraction of the beads are blue?

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

2) $\frac{1}{9}$

3) $\frac{5}{9}$

4) $\frac{7}{18}$

15.   Find the sum of ∠e + ∠f + ∠g.
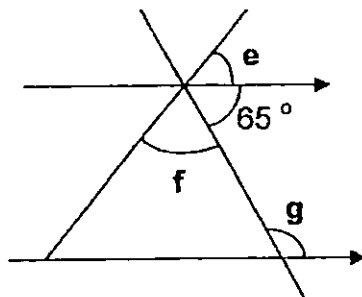
1)   115°
2)   230°
3)   250°
4)   295°

End of Booklet A

Anglo-Chinese School
(Junior)

SEMESTRAL ASSESSMENT 1 (2015)
PRIMARY 5

MATHEMATICS

PAPER 1
Booklet B

Wednesday   6 May 2015   **50 min**

INSTRUCTIONS TO PUPILS

DO NOT TURN OVER THE PAGES UNTIL YOU ARE TOLD TO DO SO

Follow all instructions carefully.

There are 15 questions in this booklet.

Answer ALL questions.

You are **not** allowed to use a calculator.

Name : _____ (   )

Class : 5.1

Parent's Signature:_____

Booklet / Paper	Possible Marks	Marks Obtained
Total	20	

This question paper consists of 8 printed pages. (Inclusive of 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)

16.   Find the value of $103 + 35 - 20 \div (10 \times 2)$.

Answer: _____

17.   Find the number in the blank.

$36\,000 \div 40 =$ _____ x 3

Answer: _____

18.   What fraction of the figure is unshaded?

Answer: _____

19. $\dfrac{1}{4} + \dfrac{1}{4} + \dfrac{1}{4} + \dfrac{1}{2} + \dfrac{1}{2} = \boxed{} \times \dfrac{1}{4}$

What is the missing value in the box?

Answer: _____

20. The rates for phone calls are shown below.

First 1 minute	$0.05 per minute
Subsequent minute or part thereof	$0.10 per minute

Xavier made a phone call that lasted 2 minutes and 5 seconds. How much did he pay for the phone call?

Answer: $ _____

21. The figure below shows $\frac{1}{2}$ of a symmetric figure along the line of symmetry, AB. Complete the symmetric figure.
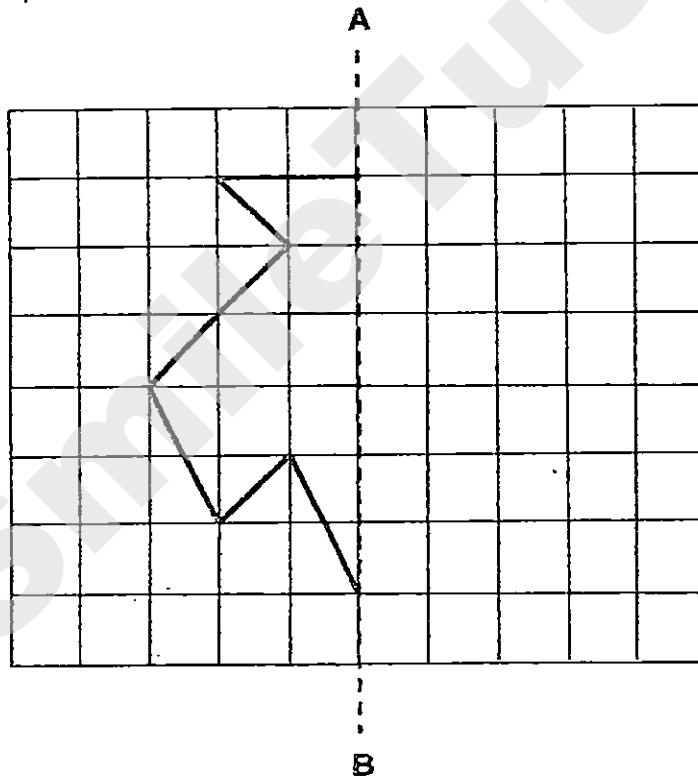
22. The partial timetable below shows the start times and end times of class periods. All lessons are of the same duration except recess.

School Time Table		
Class Period	Start Time	End Time
Second	0825	0915
Third	0915	1005
Recess	1005	1040
Fourth	1040	1130
Fifth	1130	?

What is the missing end time for the fifth period?
(Give your answer in the 24-hour clock format.)

Answer: _____

23. Find the area of the shaded part in the square grid below.

1m

1m

Answer: _____ m^2

Sub-Total :
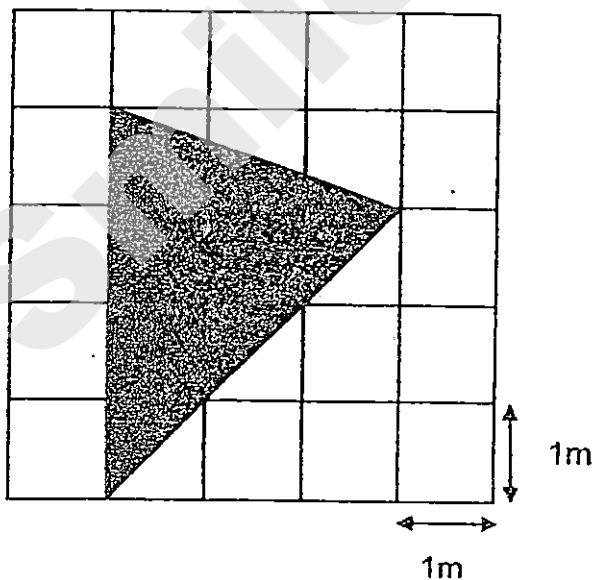
24: Danial and Rashidah shared the cost of a sofa in the ratio 2 : 7. Rashidah paid $240 more than Danial. Find the cost of the sofa.

Answer: $_____

25. Azman scored a total of 156 marks for his English and Mathematics papers. The ratio of his English score to his Mathematics score was 8 : 5. What was his Mathematics score?

Answer: _____

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. Study the diagram and answer questions (a) and (b).
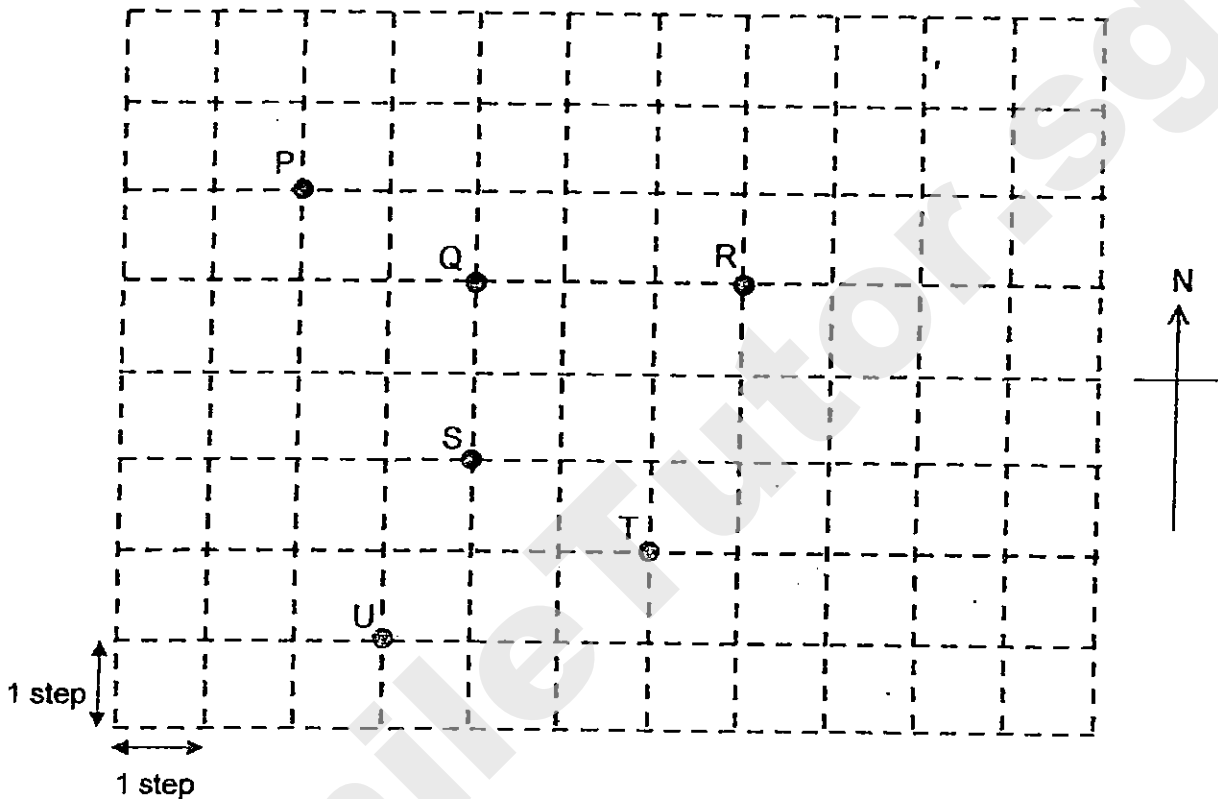
(a) Point _____ is south-west of Point _____ .

(b) Wayne was at a certain point. He walked 2 steps to the south, 3 steps to the west, 5 steps to the north and 1 step to the east. He ended at Point P. What was his starting point?

Answer:_

27. Christopher and Zachariah had an equal amount of money. After Christopher spent $200 and Zachariah spent $400, Christopher had three times as much money as Zachariah. How much money did each boy have at first?

Answer: $_____

28. A rectangular strip of paper is folded as shown below. What is the perimeter of the rectangular strip of paper when it is unfolded?
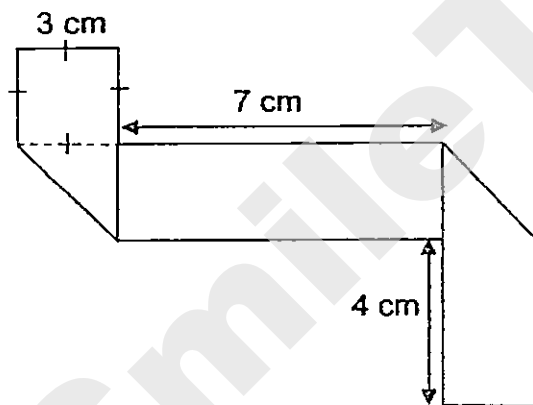
Answer: _____ cm

29. When $\frac{1}{3}$ of a number is increased by 18, the result is 46.
    Find the number.

    Answer: _____

30. The area of the rectangle ABCD below is 180 cm².
    The area of the triangle XDY is 12 cm².
    Find the total shaded area of the rectangle.
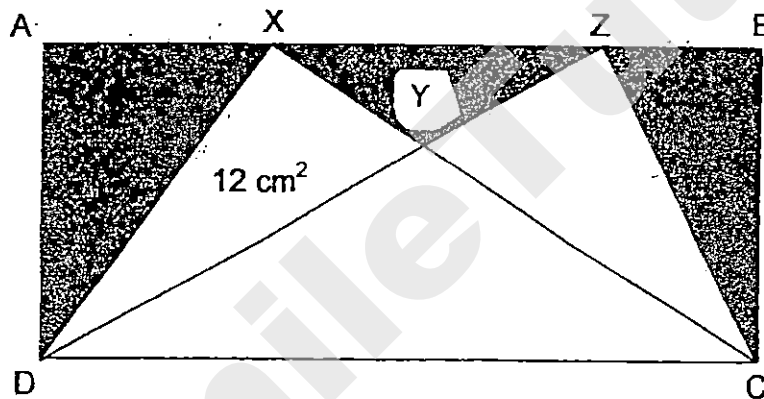
    Answer: _____ cm²

End of Booklet B

Anglo-Chinese School (Junior)

SEMESTRAL ASSESSMENT 1 (2015)
PRIMARY 5

MATHEMATICS

PAPER 2

Wednesday 6 May 2015 **1 hr 40 min**

INSTRUCTIONS TO PUPILS

DO NOT TURN OVER THE PAGES UNTIL YOU ARE TOLD TO DO SO

Follow all instructions carefully.

There are 18 questions in this booklet.

Answer ALL questions.

You are allowed to use a calculator.

Name :_____

Class : 5.(   )

Parent's Signature:_____

Booklet / Paper	Possible Marks	Marks Obtained
Booklet A	20	
Booklet B	20	
Paper 2	60	
Total	100	

This question paper consists of 14 printed pages. (Inclusive of cover page)

1.   For every $1 that Victor saves, Navin saves $2. Given that Victor

      saves $8, how much money have the two boys saved altogether?

                                                    Answer : $_____

2. $\frac{2}{3}$ of Amin's age is equal to $\frac{1}{4}$ of Bernard's age. Their total age is 77

      years old. How old is Bernard?

                                                    Answer:_____

3. Mrs Sim baked 240 cookies and Mrs Tan baked 100 cookies After they each gave away an equal number of cookies, Mrs Sim had three times as many cookies left as Mrs Tan. How many cookies did Mrs Sim give away?

Answer: _____

4. Find the shaded area of the figure below.

Answer : _____ cm²

Sub-Total ·
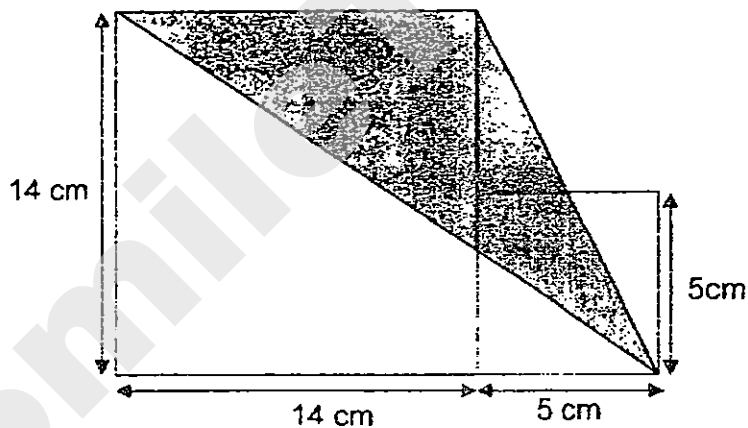
5. The figure below, rectangle ABCD is made up of 3 identical rectangles and 3 identical squares. BC is 36 cm. Find the perimeter of rectangle ABCD.
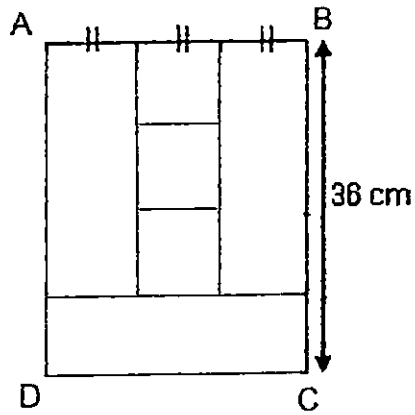
Answer: _____ cm

For Questions **6** to **18**, show your working clearly 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. Guo Xing had $106 and Hansel had $68. Guo Xing then gave Hansel $12. What was the ratio of the amount of money Guo Xing had to the amount of money Hansel had in the end? Give your answer in the simplest form.

Answer : _____ [3]

7. Janice made a certain number of egg tarts. She gave $\frac{1}{4}$ of the egg tarts to her relatives and $\frac{4}{9}$ of the remainder to her neighbours. She was left with 70 egg tarts. How many egg tarts did she make at first?

Answer : _____ [3]

8. Ali has 2 times as many marbles as Bala. Bala has 3 times as many marbles as Cameron. Ali has 1320 more marbles than Cameron. How many marbles does Bala have?

Answer: _____ [3]

9. The table shows the entrance fee to Amazing Museum.

Adults	$10
Children	$5
Senior Citizens	$8

What is the total entrance fee for a tour group of 2 senior citizens, 12 adults and 4 children?

Answer: _____ [3]

Sub-Total :

10. Jacob earns $500 more than Derek each month. They each spend $1000 a month and save the rest. Jacob does not have any savings at first. After 5 months, he has $10 000 in savings. How much money does Derek earn a month?

Answer: _____ .[3]

11. On Jervaine Street, there are 27 poles from one end to the other end of the street at equal distances apart. The width of each pole is 15 cm. The distance between 2 poles is 8 m. Find the length of Jervaine Street. Give your answer in metres.

Answer : _____ [4]

12. Kenneth bought some packets of stamps. There were 8 stamps in each packet. For a carnival, Kenneth was given another 4 more stamps by his brother and he repacked all the stamps into smaller packets. There are now exactly 6 stamps in each packet and 22 more packets than before. How many stamps did Kenneth buy?

Answer : _____ [4]

Sub-Total :

13. Mr Lim had a total of 294 chocolate cakes and vanilla cakes. The ratio of the number of chocolate cakes to the number of vanilla cakes was 5 : 16.

(a) How many vanilla cakes did Mr Lim have?

(b) After he sold a number of vanilla cakes, the number of vanilla cakes left was twice the number of chocolate cakes. How many vanilla cakes did he sell?

Answer : (a)_____ [1]

(b) _____ [3]

Sub-Total :

14. On a Friday at the National Library, $\frac{1}{3}$ of the visitors borrowed only 1 book each, $\frac{5}{12}$ of the visitors borrowed 2 books each and $\frac{1}{6}$ of the visitors borrowed 3 books each. The rest of the visitors did not borrow any books. A total of 1560 books were borrowed that day.

(a) What fraction of the visitors did not borrow any books?

(b) How many visitors did not borrow any books from the National Library?

Answer : (a)_____ [1]

(b)_____ [3]

15. Rectangle ABCD has a perimeter of 96 cm. The length of BC is twice that of AB. BM = MC.

(a) Find the length AB.

(b) Find the area of triangle DBM.

Answer : (a)_____ [2]

(b) _____ [2]

Sub-Total :
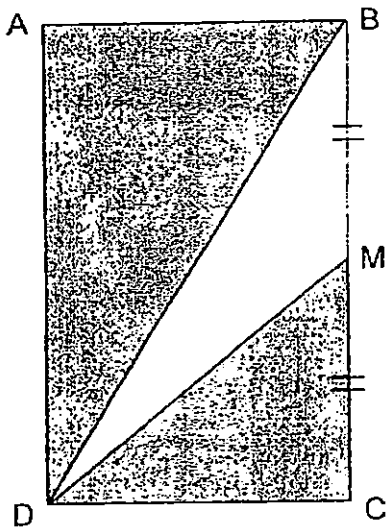
16. Simon and Torez participated in a Maths Quiz. There were 50 questions in the Maths Quiz. For every correctly answered question, 3 points were awarded. For every incorrect answer, 1 point was deducted. Simon and Torez scored a total of 204 points by each attempting 50 questions in the Maths quiz. Simon scored 24 more points than Torez.

(a) How many points did Simon score?

(b) How many questions did Simon answer correctly?

Answer : (a) _____ [2]

(b) _____ [3]

Sub-Total : ⌐   ⌐

17. Mabel and Jason baked some pastries consisting of croissants and apple pies. They baked 60 more croissants than apple pies in total. Mabel baked $\frac{3}{4}$ of the croissants and $\frac{1}{2}$ of the apple pies. She baked 120 more pastries than Jason. How many croissants and apple pies did Jason bake altogether?

Answer : _____ [5]

18. Mr Toh had some money. He spent $\frac{4}{7}$ of it on 8 similar notebooks. With his remaining money, he bought another 5 such notebooks and 8 pens.

(a) What fraction of his money was spent on buying 8 pens?
Give your answer in its simplest form.

(b) During a sale, Mr Toh would be given 1 free pen for every 9 pens bought. How many pens would he get altogether if he had spent all his money on pens at first?

Answer : (a) _____ [2]

(b) _____ [3]

End of Paper 2

PAPER ONE – BOOKLET A

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

PAPER ONE – BOOKLET B

Q16.
$103 + 35 - 20 \div 20$
$= 103 + 35 - 1$
$= 103 + 34 = 137$ ANS : 137

Q17. ANS: 300

Q18. SEE PICTURE

ANS: $\frac{9}{16}$

Q19.
$\frac{2}{4} + \frac{2}{4} + 1$ $1 + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} = 1\frac{3}{4} = \frac{7}{4}$

$\frac{7}{4} \div \frac{1}{4} = 7$ ANS: 7

Q20.
1 min → 5¢
Next 1 min and 5 sec → 20¢   ANS : $0.25

Q21. SEE PICTURE

PAGE 1

Q22. SEE PICTURE   ANS : 1220

School Time Table		
Class Period	Start Time	End Time
Second	0825 +50min	0915
Third	0915 +50min	1005
Recess	1005 +35min	1040
Fourth	1040 +50min	1130
Fifth	1130 +50min	?

Q23. SEE PICTURE

$\frac{1}{2}$ x 4 x 3 = 6   ANS : 6m²
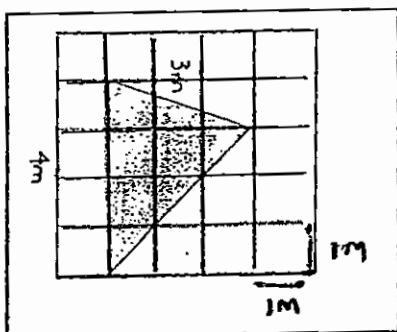
Q24.
$240 ÷ (7 − 2) = $48
$48 x (7 + 2) = $432   ANS : $432

Q25.
13U → 156
1U → 156 ÷ 13 = 12
5U → 5 X 12 = 60   ANS : 60 marks

Q26. a) Point U is south – west of Point R.
Q26. b) ANS : Point S

Q27. SEE PICTURE
2U → 400 − 200 = 200
1U → 200 ÷ 2 = 100
B 100 + 400 = 500

PAGE 2
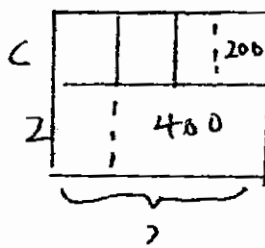
Q28. SEE PICTURE

8 + 3 = 24
7 X 2 = 14
4 X 2 = 8
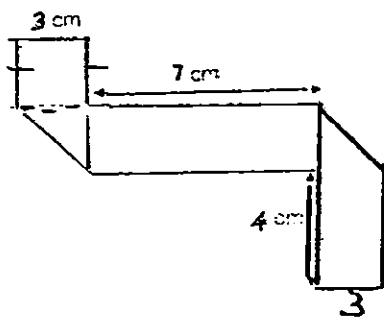
Q29.
46 − 18 = 28
28 x 3 = 84   ANS : 84

Q30.
△ D X C = 12
△ DZC = ½ x 180 = 90
180 − 90 = 90   ANS : 90 cm²

PAPER 2

Q1.
8 x 2 = 16 , 16 + 8 = 24   ANS : $24

Q2.
1U ➔ 77 ÷ 11 = 7
8U ➔ 8 X 7 = 56   ANS : 56 years old

Q3.
2U ➔ 240 − 100 = 140
1U ➔ 140 ÷ 2 = 70
3U ➔ 3 X 70 = 210
GA ➔ 249 − 210 = 30   ANS : 30 COOKIES

Q4. SEE PICTURE
½ x 14 x 14 = 98   ANS : 98cm²

PAGE 3
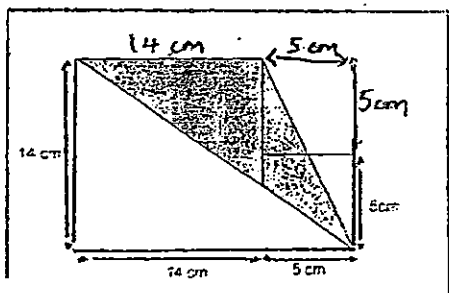
Q5. SEE PICTURE
$36 \div 4 = 9$
$9 \times 3 = 27$
$27 \times 2 = 54$
$36 \times 2 = 72$
$72 + 54 = 126$ ANS : 126cm.

Q6. $106 - 12 = 94$
$68 + 12 = 80$
$94 : 80$
$47. : 40$ ANS : 47.40

Q7. SEE PICTURE
5U → 70
1U → $70 \div 5 = 14$
12U → $12 \times 14 = 168$ ANS : 168 egg tarts.

Q8. SEE PICTURE
5U → 1320
1U → $1320 \div 5 = 264$
3U → $3 \times 264 = 792$ ANS : 792 marbles

Q9.
$2 \times 8 = 16$ (Senior citizens)
$12 \times 10 = 120$ (Adults)
$4 \times 5 = 20$ (Children)
$20 + 16 + 120 = 156$ ANS : $156

Q10.
$10,000 \div 5 = 2,000$
$2,000 + 1,000 = 3,000$
$3,000 - 500 = 2,500$ ANS: $2,500.

Q11.
Number of gaps → $27 - 1 = 26$
26 gaps → $26 \times 8 = 208$m
27 poles → $27 \times 0.15 = 4.05$
208m $+ 4.05$m $= 212.05$m   ANS : 212.05m

Q12. SEE PICTURE   ANS : 512

8 P	6 P	Total 4	check
64×8 = 512	516	4	✓

8 each   ⊢———22 more P———⊣

6 each   4 more.

PAGE 4

Q13.a.
16 + 5 = 21
21U → 294
1U → 294 ÷ 21 = 14
15U → 16 X 14 = 224

Q13B.
16 − 6 = 10
6U → 6 X 14 = 84   ANS : a) 224 vanilla cakes   b) 84 vanilla cakes.

Q14a.
$1 - \frac{1}{3} - \frac{5}{12} - \frac{1}{6} = \frac{1}{12}$

Q14b.
2 x 5 = 10
6 + 4 = 10
10 + 10 = 20
1560 ÷ 20 = 78   ANS : a) $\frac{1}{12}$ b. 78

Q15 SEE PICTURE
a)
6U → 96
1U → 96 ÷ 6 = 16
b)
16 x 2 = 32
32 ÷ 2 = 16
½ x 16 x 16 = 128   ANS: a) 16cm   b) 128cm²
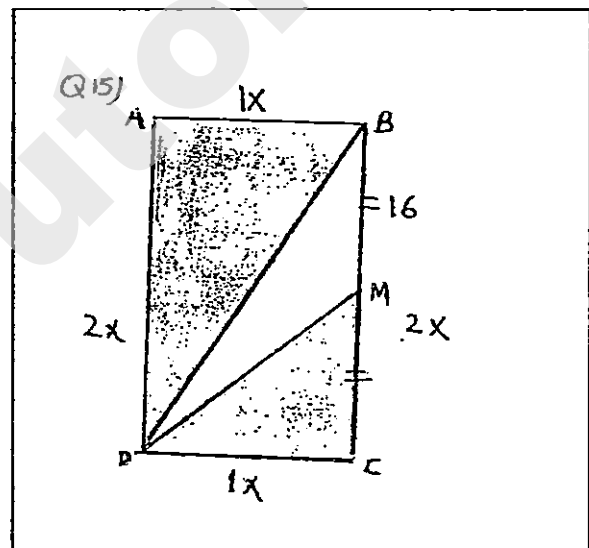
Q16A.
2U → 204 − 24 = 180
1U → 180 ÷ 2 = 90
S → 90 + 24 = 114

Q16b. SEE PICTURE

16 b)

C (+3)	IC (−1)	114 pants	50Q	✓/x
25x3 =75	25x1 =25	50p	50Q	X
45x3 =135	5x1 =5	130p	50Q	X
40x3 =120	10x1 =10	110p	50Q	X
41x3 =123	9x1 =9	114p	50Q	✓

PAGE 5

Q17. SEE PICTURE
2U → 120
1U → 120 ÷ 2 = 60
4U → 4 X 60 = 240
240 – 60 = 180
180 ÷ 2 = 90
J → 90 + 60 = 150   ANS: 150 Croissants and apple pies.

Q18a.
$\frac{4}{7} \div 8 = \frac{1}{14}$, $\frac{4}{7} = \frac{8}{14}$, $8 + 5 = 13$, $1 - \frac{13}{14} = \frac{1}{14}$

Q18b.
1U → 8 PEARS
14U → 14 X 8 = 112
112 ÷ 9 = 12
12 sets of 9 pears
112 + 12 = 124   ANS: a. $\frac{1}{14}$ of his money   b. 124 pens

THE END

CATHOLIC HIGH SCHOOL

MID-YEAR EXAMINATION 2015

MATHEMATICS

PRIMARY 5

PAPER 1

(BOOKLET A)

Name _____ (   )

Class: Primary 5 _____

Date: 13 May 2015

Total Time for Booklets A and B: 50 min

15 questions

20 marks

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Shade your answers in the Optical Answer Sheet (OAS) provided.

The use of calculators is **NOT** allowed.

Booklet A and B consist of 11 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 which of the following is the digit '8' in the hundred thousands place?

   1) 2 345 897
   2) 2 348 597
   3) 2 384 597
   4) 2 834 597

---

2. Which one of the following when rounded off to the nearest thousand is 234 000?

   1) 233 099
   2) 233 499
   3) 234 099
   4) 234 599

---

3. How many eighths are there in $2\frac{5}{8}$?

   1) 16
   2) 18
   3) 21
   4) 25

(Go on to the next page)

4. Which one of the following is not an equivalent fraction of $\frac{2}{5}$?

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

   2) $\frac{6}{15}$

   3) $\frac{8}{16}$

   4) $\frac{8}{20}$

---

5. $4 :$ ☐ $= 32 : 72$. What is the missing number in the box.

   1) 8
   2) 9
   3) 12
   4) 14

---

6. What is the value of 2200×50?

   1) 110
   2) 11 000
   3) 101 000
   4) 110 000

---

7. The area of a rectangle is 144 cm². The breadth is 8 cm. What is the length of the rectangle?

   1) 9 cm
   2) 18 cm
   3) 32 cm
   4) 72 cm

---

8. Find the value of 15.2 − 6.78.

    1) 8.42
    2) 8.58
    3) 11.58
    4) 21.98

---

9. Express $\dfrac{7}{8}$ as a decimal.

    1) 7.8
    2) 8.75
    3) 0.78
    4) 0.875

---

10. Mrs Ong bought 25 chicken buns and 40 red bean buns. What was the ratio of the number of chicken buns to the number of red bean buns bought?

    1) 5 : 8
    2) 5 : 13
    3) 8 : 5
    4) 8 : 13

---

11. Sam has 135 stickers. Sam has 45 stickers less than Tom. How many stickers do they have altogether?

    1) 90
    2) 180
    3) 225
    4) 315

---

12. The figures below are two squares. Square A has a side of 4 cm. Square B has a side of 6 cm. Find the ratio of the area of Square B to the area of square A.

Square A

4 cm

Square B

6 cm
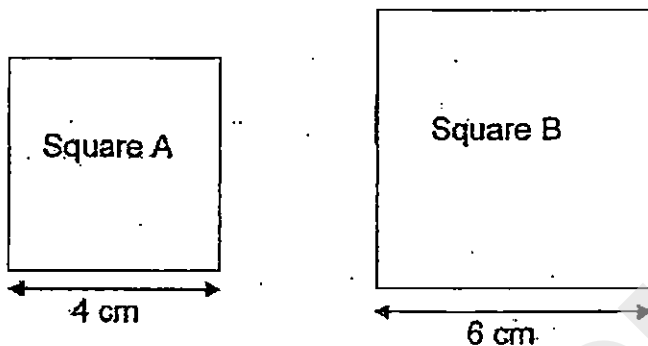
(1) 3 : 2
(2) 9 : 4
(3) 4 : 5
(4) 4 : 9

---

13. A repeated pattern is formed using the letter A, B, C and D.

1st 2nd 3rd   18th
A, A, B, C, D, D, A, A, B, C, D, D, A, A, B, C, D, D, ...

What is the letter in the 33rd position?

(1) A
(2) B
(3) C
(4) D

---

14. There were 350 people at the stadium. The number of children was twice the number of men. The number of men was twice the number of women. How many women were there?

(1) 50
(2) 70
(3) 100
(4) 140

4

15. A rectangle ABCD is made up of 1 large triangle and 12 small triangles. What fraction of the rectangle ABCD is shaded?
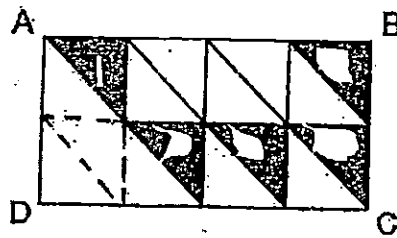
(1) $\frac{5}{8}$

(2) $\frac{5}{12}$

(3) $\frac{5}{13}$

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

END OF BOOKLET A

CATHOLIC HIGH SCHOOL

MID-YEAR EXAMINATION 2015

MATHEMATICS

PRIMARY 5

PAPER 1

(BOOKLET B)

Name :_____ (   )

Class: Primary 5 _____

Date: 13 May 2015

Total Time for Booklets A and B: 50 min

15 questions

20 marks

Booklet A	
Booklet B	
Total	

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

The use of calculators is **NOT** allowed.

Booklet A and B consist of 11 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. All diagrams are not drawn to scale.

(10 marks)

16. Write six million, five hundred and three thousand and nineteen in figures.

Ans: _____

17. Find the value of $74 - (23 - 8) \times 3 + 16$.

Ans: _____

18. Find the value of 0.52×6.

Ans: _____

19. $\dfrac{6}{11} + \dfrac{1}{11} = \boxed{} \times \dfrac{1}{11} + \dfrac{3}{11}$

What is the missing answer in the box?

Ans: _____

20. Express $15 \div 4$ as a mixed number in its simplest form.

Ans: _____

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

1 809 543,   190 834,   1 345 908,   2 453 890

Ans: _____ , _____ , _____ , _____

(Go on to the next page)

7

22. A printer can print 40 cards in 1 minute. How many cards can the printer print in 1 hour?

Ans: _____

23. At a drink stall, Mrs Raja sold 25 000 ml of apple juice in a day. The apple juice was sold in cups containing 250 ml of juice each. How many cups of apple juice did she sell in a day?

Ans: _____

24. Julian has a wire 12.28 m long. He bends it to make a square. What is the length of each side of the square?

Ans: _____ m

(Go on to the next page)

25. The ratio of the number of apples to the number of oranges in a basket is 5 : 1. The ratio of the number of oranges to the number of mangoes is 2 : 3. What is the ratio of the number of apples to the number of oranges to the number of mangoes in the basket? Give your answer in the simplest form.

Ans: _____

Total marks for questions 16 to 25

10

(Go on to the next page)

9
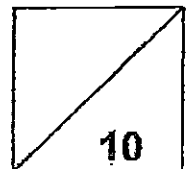
Questions **26** to **30** carry 2 marks each. Show your working and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. **(10 marks)**

26. Find the fraction that is exactly the midpoint of $\frac{2}{3}$ and $\frac{5}{6}$.

Express your answer in the simplest form.
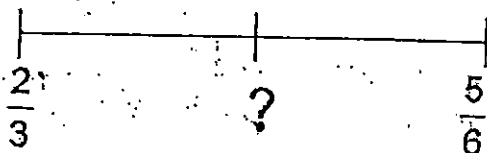
Ans: _____

27. Tara divided $\frac{2}{3}$ of a cake equally among 4 friends. What fraction of the cake did each friend get? Express your answer in the simplest form.

Ans: _____

28. John has a rectangular photo frame. The ratio of the length of the frame to the breadth of the frame is 2 : 1. The perimeter of the frame is 48 cm. Find the length of the frame.

_____ cm

(Go on to the next page)

29. James had the exact amount of money to buy 9 cheeseburgers. He bought 6 cheeseburgers and had $4.50 left. How much money did he have at first?

Ans:$ _____

30. Every time Miguel put $2 in his savings box, his father put another $1 into the box. When there were $63 in the savings box, how much money had been put in by his father?

Ans:$ _____

Total marks for questions 26 to 30

END OF BOOKLET B
END OF PAPER 1

10

CATHOLIC HIGH SCHOOL
MID-YEAR EXAMINATION 2015
MATHEMATICS
PRIMARY 5
PAPER 2

Name :_____ (   )

Class: Primary 5 _____

Date: 13 May 2015

Total Time: 1 h 40 min

Parent's Signature: _____

Paper 1 Booklet A	20
Paper 1 Booklet B	20
Paper 2	60
Total Marks	100

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

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

This booklet consists of 12 printed pages.

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.
All diagrams are not drawn to scale.

(10 marks)

Do not write in this space.

1. Jane mixed $\frac{3}{4}$ kg of flour and $\frac{1}{8}$ kg of butter together. She used $\frac{1}{2}$ of the mixture to bake cookies. How much mixture was left?

Ans: _____ kg

2. The table below shows the charges for sending a parcel. Ray sent a parcel of mass 205 g. How much did he pay?

Mass of Parcel	Charges
For the first 150 g	$2.70
For every additional 50 g or part thereof	$1.50

Ans:$ _____

3. The ratio of Alan's mass to Ben's mass to Carl's mass is 9 : 7 : 6. Ben has a mass of 56 kg. How much heavier is Alan than Carl?

Ans:_____ kg

4. Mrs Tan bought 4 *l* of orange juice. She drank $\frac{1}{2}$ *l*. How much orange juice was left?

Ans:_____ *l*

5. The figure below is made of squares. Shade 2 squares so that the dotted line AB is a line of symmetry of the figure.
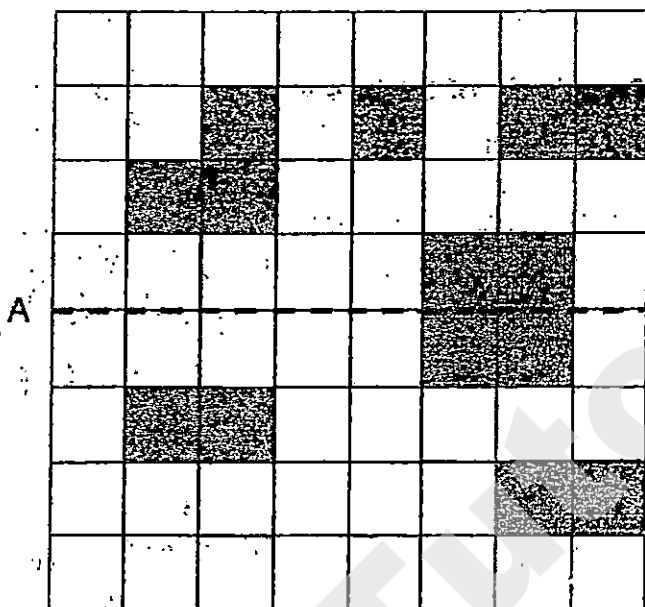
For questions **6** to **18**, show your working clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question.

(50 marks)

6. In a class of 42 pupils, $\frac{1}{2}$ of the girls is equal to $\frac{2}{3}$ of the boys. How many girls are there in the class?

Ans: _____ [3]

7. Rico had an equal number of chocolate cookies and peanut cookies. After selling 384 peanut cookies, he had 3 times as many chocolate cookies as peanut cookies. How many cookies did he have at first?

Ans: _____ [3]

(Go on to the next page)

8. Paul had 3 boxes of tarts. There was an equal number of tarts in each box at first. He took 12 tarts from each box. Then, the total number of tarts left in the 3 boxes was equal to the total number of tarts in 2 boxes at first. What was the total number of tarts at first?

Ans: _____ [3]

9. Ben and Charlie had $270 at first. When Ben received $42 from his mother, Charlie would have thrice as much money as Ben. How much money did Ben have at first?

Ans: _____ [3]

10. The ratio of the number of red beads to the number of green beads Davis had was 3 : 5. There were 70 more green beads than red beads. Davis bought another 20 red beads. How many red beads did Davis have in the end?

Ans: _____.[3]

11. Jack had some money. He spent $\frac{1}{4}$ of it on a watch and $\frac{1}{6}$ of it on a wallet. The watch and wallet cost $133.50 altogether. How much money had he left?

Ans: _____.[4]

(Go on to the next page)

6

12. At a carnival, every girl was given 2 candy floss and every boy was given 3 candy floss. There were thrice as many girls as boys. A total of 63 candy floss were given out. How many girls were there at the carnival?

Ans: _____ [4]

13. There were 40 children at a party. Each girl was given 5 balloons and each boy was given 3 balloons. A total of 186 balloons were given to the children. How many more girls than boys were at the party?

Ans: _____ [4]

14. Mrs Lee baked 180 muffins. $\frac{4}{9}$ of them were chocolate muffins, $\frac{2}{5}$ of the remainder were strawberry muffins and the rest were raisin muffins. She sold 16 of the raisin muffins.
How many raisin muffins did Mrs Lee have left?

Ans: _____ [4]
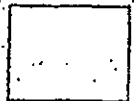
15. At first, Ken had 150 stamps and his brother had some stamps. After giving 40 stamps to his brother, the ratio of the number of stamps Ken had to the number of stamps his brother had was 5 : 3.

   (a) How many stamps did Ken have in the end?

   (b) How many stamps did his brother have at first?

Ans: (a) _____ [1]

   (b) _____ [3]
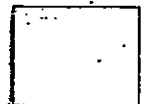
16. Wendy bought some apple pies for $13.20 and had some money left. If she decided to buy 1 more apple pie, she would have $0.40 left. If she decided to buy 3 more apple pies, she would be short of $1.80.

(a) How many apple pies did she buy with $13.20?

(b) How much money did Wendy have at first?

(a) _____ [3]

(b) _____ [2]

17. Ray had some money. He spent $\frac{3}{5}$ of his money and an additional $30 on a bicycle. He then spent $\frac{1}{3}$ of his remaining money and an additional $20 on a skateboard. Ray had $80 left. How much money did he have at first?

Ans: _____ [5]

18. During a sale, John spent $650 of his money on a laptop and the remaining money on a pair of speakers and a thumb drive. The ratio of the amount of money he spent on the pair of speakers to the thumb drive was 5 : 2.

He used $\frac{1}{4}$ of his money for the pair of speakers.

(a) What fraction of the remaining money did John spend on the thumb drive?

(b) How much money did John had at first?

Ans: (a)_____ [1]

(b) _____ [4]

END OF PAPER 2
CHECK YOUR WORK

(Go on to the next page)

EXAM PAPER 2015
LEVEL   : PRIMARY 5
SCHOOL : CATHOLIC HIGH SCHOOL
SUBJECT : MATH
TERM   : SA1

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

Q16. ANS : 6503019

Q17. ANS : 45
$74 - 15 \times 3 + 16 = 74 - 45 + 16 = 29 + 16 = 45$

Q18. ANS : 3.12

Q19. ANS : 4
$\frac{6}{11} + \frac{1}{11} = \frac{7}{11}$
$\frac{7}{11} - \frac{3}{11} = \frac{4}{11}$

Q20. ANS : $3\frac{3}{4}$
$15 \div 4 = \frac{15}{4} = 3\frac{3}{4}$

Q21. ANS : 190 834 , 1 345 908 , 1 809 543 , 2453 890

Q22. ANS : 2400
1 hr = 60minutes, $60 \times 40 = 2400$

Q23. ANS : 100
$25000ml \div 250ml = 100$

Q24. ANS : 3.07m
$12.28 \div 4 = 3.07$

Q25. ANS : 10 : 2 : 3

APPLE	:	ORANGE		ORANGE	:	MANGEO
5	:	1		2	:	3
= 10	:	2.	=	2	:	3

Q26. ANS : ¾
$\frac{9}{12} \div 3 = ¾$

Q27. ANS : ⅙
$\frac{2}{3} \div 4 = \frac{2}{3} \times \frac{1}{4} = ⅙$

Q28. 16cm

Length : Breadth
  2 : - 1

2U + 1U + 2U + 1U = 6U

6U = 48

IU = 48 ÷ 6 = 8

Length = 8 x 2 = 16

Q29. ANS : $13.50

9 – 6 = 3

3U = $4.50 , IU + $1.50, 9U = $1.50 X 9 = $13.50.

Q30. ANS : $21

1 group = 2 + 1 = 3, 63 ÷ 3 = 21 group , 21 x $1 = $21

Q1. ANS : $\frac{7}{16}$ kg

$\frac{3}{4} + \frac{1}{8} = \frac{6}{8} + \frac{1}{8} = \frac{7}{8}$

$\frac{7}{8} \times \frac{1}{2} = \frac{7}{16}$

Q2. ANS : $5.70 $2.70 + $1.50 + $1.50 = $5.70

Q3. ANS : 24 KG

ALAN : BEN : CARL
 9 : 7 : 6
 72 : 56 : 48

Difference = 72 – 48 = 24kg

Q4. ANS : $3\frac{1}{2}$ litre

$4 - \frac{1}{2} = 3\frac{2}{2} - \frac{1}{2} = 3\frac{1}{2}$ litre

---

Q5. ANS : SEE PICTURE
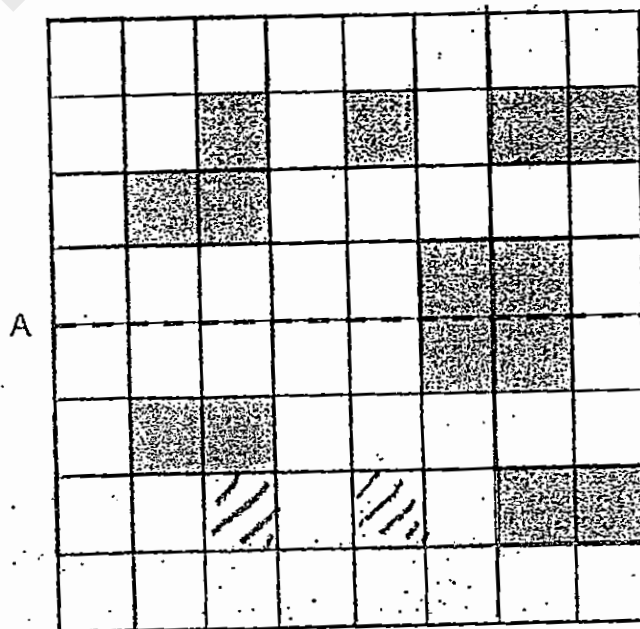
Q6. ANS : 24 girls

½ of girls = ⅔ of the boys

$^2/_4$ of girls = ⅔ of boys

4U + 3U = 7U, 7U = 42, 7U = 42, IU = 42 ÷ 7 = 6

Girls = 4 x 6 = 24

Q7. ANS : 1152 cookies

2U = 384 , IU = 384 ÷ 2 = 192.

At first = 192 + 384 = 576

Peanut + Chocolate = 576 x 2 = 1152

Q8. ANS : 108 tarts

1 box at first = 12 x 3 = 36.

3 boxes at first = 36 x 3 = 108

36 – 12 = 24, 24 x 3 = 72 , 2 box at first = 36 x 2 = 72

Q9. ANS : $36

270 + 42 = 312

4U = 312 – (42 X 4) = 312 – 168 = 144

4U = 144, IU = 144 ÷ 4 = 36

Q10. ANS : 125 red beads

5U – 3U = 2U

2U = 70, 1U = 70 ÷ 2 = 35, 3U = 35 X 3 = 105

Red beads, end = 105 + 20 = 125

Q11. Ans : $186.90

$1 - \frac{1}{4} - \frac{1}{6} = \frac{7}{12}$

$\frac{1}{4} + \frac{1}{6} = \frac{5}{12}$

5U = 133.5 , IU = 133.5 ÷ 5 = 26.70 , 7U = 26.70 X 7 = 186.90

Q12. ANS : 21 girls

1 group = (3 x 2) + (1 + 3) = 6 + 3 = 9

63 ÷ 9 = 7 groups

Girls = 7 x 3 = 21

Q13. ANS : 26

Assume all girls,

40 x 5 = 200, 200 – 186 = 14, 5 – 3 = 2

Boys = 14 2 = 7.

Girls = 40 – 7 = 33

Difference = 33 – 7 = 26

Q14. 44 raisin muffins

4U = 180 , IU = 180 ÷ 9 = 20

Rasin left = 60 – 16 = 44

Q15a ANS : 110   Q15b. 26

KEN	:	BROTHER
5	:	3
110	:	66

Ken , now = 150 – 40 = 110
Brother, at first = 66 – 40 = 26

Q16a. ANS : 12 apple pies   Q16b. $14.70
$1.80 + $0.40 = $2.20, 3 – 1 = 2
2 apple pies = $2.20
1 apple pie = $2.20 ÷ 2 = $1.10
Bought $13.20 ÷ $1.10 = 12
Wendy, at first = 413.20 + $1.10 + $0.40 = $14.70

Q17. ANS : $450
2U = $80 + $20 = 4100
1U = $100 ÷ 2 = $50 , 3U = 450 X 3 = 4150
$\frac{2}{5}$ of the total = 4150 + $30 = $180
$\frac{1}{5}$ of the total = $180 ÷ 2 = $90
$\frac{5}{5}$ of the total = $90 x 5 = $450

Q18a. ANS : $\frac{2}{7}$ Q18b. $1000

Speaker = $\frac{5}{7}$ of remaining

$\frac{7}{7} - \frac{5}{7} = \frac{2}{7}$

Thumbdrive = $\frac{2}{7}$ of remaining

$\frac{1}{4}$ of total = 5U

$\frac{3}{4}$ of total = 15u

$\frac{4}{4}$ of total = 204

15U – 2U = 13U

13U = $650, IU = $650 ÷ 13 = 50 , 20U = 50 X 20 = 1000

THE END

Name: _____ ( ).

Class: Primary 5 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

Primary 5 Mathematics

2015 Semestral Assessment One

Paper 1

Booklet A

12 May 2015

15 questions
20 marks

TOTAL TIME FOR BOOKLETS A & B : 50 MINUTES

<u>INSTRUCTIONS TO CANDIDATES</u>
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 <u>8</u> 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, 4) on the Optical Answer Sheet.

(20 marks)

1. What is the value of the digit 7 in 8 475 913?

    1) 70

    2) 700

    3) 7000

    4) 70 000

2. Find the value of $36 + 42 - 10 \div 2$.

    1) 34

    2) 52

    3) 73

    4) 83

3. Which of the following has the same value as $3\frac{4}{8}$?

    1) 3.05

    2) 3.4

    3) 3.48

    4) 3.5

2

4. There were 15 red marbles and 10 blue marbles. What is the ratio of the number of red marbles to the total number of marbles?

1) $3 : 2$

2) $2 : 3$

3) $3 : 5$

4) $2 : 5$

5. A container has a capacity of 5 ℓ. It contains $3\frac{1}{7}$ ℓ of water. How much more water can be poured into the container to fill it up completely?

1) $1\frac{1}{7}$ ℓ

2) $1\frac{6}{7}$ ℓ

3) $2\frac{1}{7}$ ℓ

4) $2\frac{6}{7}$ ℓ

6. Four cakes were shared equally among 3 children. What fraction of the cakes did each child get?

1) $1\frac{3}{4}$

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

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

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

7. The figure below shows a triangle ABC. The base of the triangle is AC. Identify the height of triangle ABC.
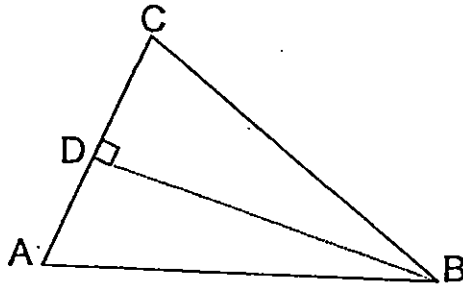
1) AB

2) AD

3) BD

4) CD

8. Amelia, Betty and Clara bought a present for their father. Amelia paid $\frac{1}{4}$ of the price of the present and Betty paid $\frac{2}{3}$ of the price of the present. Clara paid for the rest. What fraction of the price of the present did Clara pay?

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

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

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

4) $\frac{11}{12}$

9. Find the product of $\dfrac{3}{10}$ and $\dfrac{8}{9}$.

1) $2\dfrac{26}{27}$

2) $1\dfrac{17}{90}$

3) $\dfrac{27}{80}$

4) $\dfrac{4}{15}$

10. Kei Ming ate $\dfrac{1}{5}$ of a pizza in the morning. He ate $\dfrac{5}{8}$ of the remainder in the afternoon. What fraction of the pizza did he eat in the afternoon?

1) $\dfrac{3}{10}$

2) $\dfrac{3}{8}$

3) $\dfrac{1}{2}$

4) $\dfrac{7}{10}$

11. Study the pattern below.

1st

Which shape is in the 38th position?

1)

2)

3)

4)

12. There were 13 children in Sunshine Kindergarten. Mrs Koh bought 105 sweets. She gave each child 6 sweets. The remaining sweets were then distributed equally to 3 teachers. How many sweets did each teacher receive?

1) 9

2) 27

3) 44

4) 78

6

13. Between the numbers 12 and 50, how many times does the digit 4 appear altogether?

1) 14

2) 13

3) 12

4) 11

14. Mrs Tan gave $180 to her children, Darlene and Etta, in the ratio 2 : 7. How much did Darlene receive?

1) $20

2) $40

3) $90

4) $140

15. The perimeter of a rectangular painting is $2\frac{1}{2}$ m. Its length is 1 m. Find its breadth.

1) $\frac{1}{4}$ m

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

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

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

End of Booklet A

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

Primary 5 Mathematics

2015 Semestral Assessment One

Paper 1

Booklet B

12 May 2015

15 questions
20 marks

TOTAL TIME FOR BOOKLETS A & B : 50 MINUTES

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

This booklet consists of 8 printed pages including the cover page.

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 thirty-one thousand, seven hundred and nineteen in figures.

Ans : _____

17. What is the value of $10 \div 7$? Round off your answer to 2 decimal places.

Ans : _____

18. Fill in the missing number in the box.

$$2 : 1 = 10 : \boxed{}$$

Ans : _____

19. Round off the number 39 513 to the nearest thousand.

Ans : _____

20. What is the value of 62 000 ÷ 40∅?

Ans : _____

21. The ratio of the number of blue balloons to the number of orange balloons was 3 : 4. There were 24 blue balloons. How many balloons were there altogether?

Ans : _____
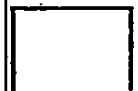
22. Alex ran $\frac{4}{5}$ km. Wei Ling ran $\frac{5}{6}$ of the distance Alex ran.

What was the distance that Wei Ling ran? Express your answer as a fraction in its simplest form.

Ans : _____ km

23. Kelvin bought a rope measuring $\frac{7}{8}$ m. He cut it into 5 equal pieces. What is the length of each piece of rope? Leave your answer in metres.

Ans : _____ m

4

24. The triangle below is not drawn to scale. Find the area of the triangle.

10 cm

10 cm

8 cm

12 cm
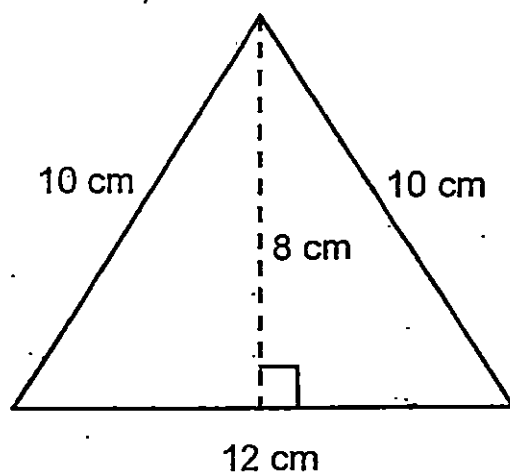
Ans : _____ cm^2

25. $\frac{1}{2}$ of a number is 20.

What is $\frac{2}{5}$ of the same number?

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)

Do not write in this space

26. The sum of 2 numbers, A and B, is 200. A is 60.
    What is the ratio of the number A to the number B?
    Express the ratio in its simplest form.

    Ans : _____

27. Mrs Wang bought between 40 and 50 chicken wings. The number of chicken wings could be shared among 6 pupils equally. It could also be shared among 4 pupils equally. How many chicken wings did Mrs Wang buy?

    Ans : _____

28. The figure below is made up of 3 triangles of the same size. What is the area of the figure?
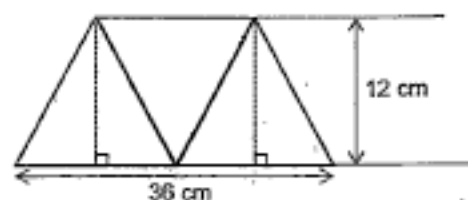
Ans : _____ cm^2

29. A bookshop sells a pen for $2. For every two pens bought, a pen is given free. Joseph wants to buy 13 pens. What is the least amount of money he has to pay altogether?

Ans :$ _____

7

1. The figure below is not drawn to scale. XYZ and PYR are straight lines. $\angle XYR = 147°$ and $\angle QYR = 102°$. Find $\angle QYZ$.

Ans : _____°
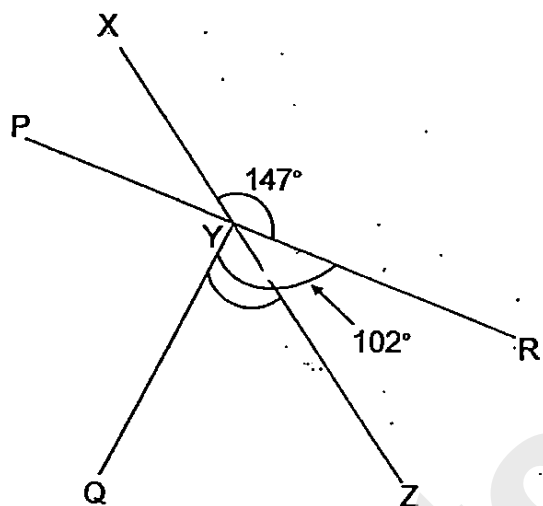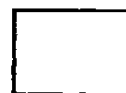
END OF PAPER 1

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

Primary 5 Mathematics

2015 Semestral Assessment One

Paper 2

12 May 2015

Paper 1	40
Paper 2	60
Total Marks	100

TOTAL TIME FOR PAPER 2 : 1 HOUR 40 MINUTES

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

This booklet consists of 17 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)

1. Mr Lee earned \$4557 a month. He spent $\frac{5}{7}$ of his salary and saved the rest. How much did he save?

    Ans: _____

2. Lionel is 3 years old. His father is 28 years older than he is. In how many years' time would Lionel's father be thrice his age?

    Ans : _____

2

3. The length of a rectangle is 308 cm. The length is thrice of its breadth. What is the breadth of the rectangle? Express your answer as a mixed number.

Ans : _____ cm

4. 6 ℓ of water can fill $\frac{1}{3}$ of a fish tank. After some water is poured into the fish tank, it becomes $\frac{7}{9}$ full. How much water is in the fish tank now?

Ans : _____ ℓ

5. The figure below, not drawn to scale, consists of two squares. The length of the smaller square is 5 cm. The length of the bigger square is twice the length of the smaller square. Find the area of the shaded triangle ABC.
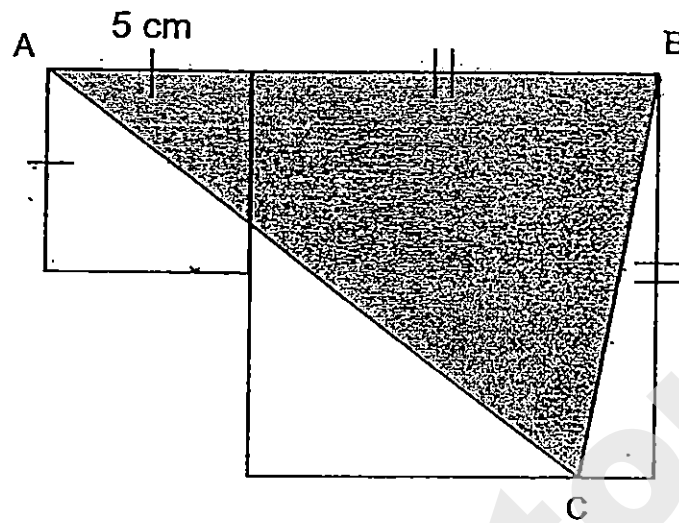
Ans : _____ cm²

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 the brackets (   ) at the end of each question or part-question.

(50 marks)

Do not write in this space

6. Alex and Benedict had $260. Alex and Caleb had $340. Caleb had 6 times as much money as Benedict. How much money did Alex have?

Ans : _____ (3 m)

7. The cost of 17 similar belts and 11 similar watches is $ 1 909. A watch costs the same as 6 such belts. What is the cost of each belt?

Ans : _____ (3 m)

8. In the figure below, not drawn to scale, the area of triangle CDB is twice the area of triangle ABD. What is the area of triangle CDB?
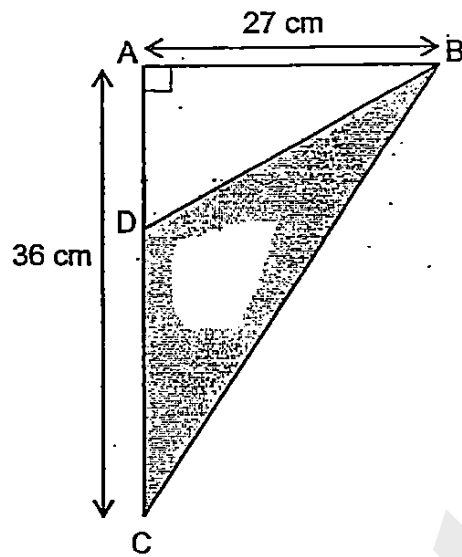
Ans : _____ (3 m)

9. Vincent prepared 10 417 balloons for a sports event. The number of red balloons was four times the number of blue balloons. The number of blue balloons was twice the number of green balloons. How many red balloons were there?

Ans : _____ (3 m)

10. Mrs Moh gave some tarts to 10 children. Each girl received 2 tarts while each boy received 3 tarts. Mrs Moh gave 5 more tarts to the girls than to the boys. How many girls did Mrs Moh give the tarts to?

Ans : _____ (3 m)

11. Almaz spent $\frac{5}{9}$ of her salary on a television. She spent $\frac{3}{7}$ of the remainder on a table. She had $580 left. How much did the television cost?

Ans : _____ (4 m)

12. At a concert, the ratio of the number of adults to the number of children was 6 : 5. There were 57 more adults than children. After some time, 26 adults and 48 children left the concert. How many people remained behind?

Ans : _____ (4 m)

13. Ginny baked 116 cookies. Mabel baked 176 cookies. After each of them gave away an equal number of cookies, Mabel had 7 times as many cookies as Ginny. How many cookies did Ginny give away?

Ans : _____ (4 m)

14. Mr Hong bought some pencils. He gave 29 pencils to Class 1A and 34 pencils to Class 1B . He gave $\frac{2}{5}$ of the remaining pencils to Class 2E. Then he had $\frac{1}{4}$ of the pencils left. How many pencils did he buy?

Ans : _____ (4 m)

13

15. The figures below, not drawn to scale, show a triangle ABC and a square X. The area of square X is 22 cm² more than the area of triangle ABC. Find the perimeter of square X.

Square X
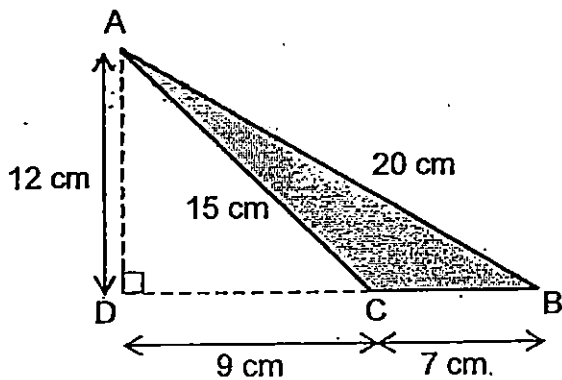
Ans : _____ (4 m)

16. There were 20 160 people performing for the National Day Parade. The ratio of the number of adults to the number of children was 9 : 7. There were 160 more boys than girls. How many boys were there?

Ans : _____ (5 m)

15

17. At a school sports carnival, $\frac{1}{3}$ of the pupils were from Red House. $\frac{1}{4}$ of the pupils were from Blue House. $\frac{1}{3}$ of the remaining pupils were from Green House. The rest were from Yellow House. There were 170 pupils from Yellow House. How many more pupils were from Blue House than from Green House?

Ans : _____ (5 m)

16

18. Jonathan used syrup and water to make a drink. He mixed the syrup and water in the ratio 2 : 5. He used $\frac{1}{8}$ ℓ of syrup to make the drink.

(a) How many litres of drink did Jonathan make?

(b) After making the drink, Jonathan drank $\frac{1}{10}$ ℓ of the drink. Then he poured the rest equally into 3 cups. How much drink was there in each cup? Give your answer in litres.

Ans : (a)_____ (2 m)

(b)_____ (3 m)

End of Paper

17
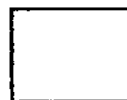
EXAM PAPER 2015

LEVEL : PRIMARY 5

SCHOOL : CHIJ ST NICHOLAS GIRLS SCHOOL

SUBJECT : MATHEMATICS

TERM : SA1

Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q9	Q 10
4	3	4	3	2	2	3	1	4	3
Q 11	Q 12	Q 13	Q 14	Q 15					
2	1	1	2	1					

Q16. 31 719   Q17. 1.43 ➔ 10 ÷ 7 ≈ 1.428, 1.428 ≈ 1.43

Q18. 5 ➔ 2 : 1 = 10 ÷ 5

Q19. 40 000 ➔ 39 513 ≈ 40 000

Q20. 155 ➔ 62000 ÷ 400 = 155

Q21. 56 ➔ Blue ➔ 3u, Orange ➔ 4u, 3u ➔ 24, 1u ➔ 24 ÷ 3 = 8, 3u + 4u = 7u, 7u ➔ 8 x 7 = 56

Q22. $\frac{2}{3}$ ➔ Wei ling ➔ $\frac{4}{5}$ x $\frac{5}{6}$ = $\frac{2}{3}$

Q23. $\frac{7}{40}$ ➔ $\frac{7}{8}$ ÷ 5 = $\frac{7}{8}$ x $\frac{1}{5}$ = $\frac{7}{40}$

Q24. 48 cm² ➔ $\frac{1}{2}$ x 12 x 8 = 48

Q25. 16 ➔ 20 x 2 = 40, $\frac{40}{1}$ x $\frac{2}{5}$ = 16

Q26. 3:7 ➔ A + B 200, A ➔ 60, B ➔ 200 – 60 = 140, A:B, 60 : 140, 30:70, 3:7

Q27. 48 ➔ 48 ÷ 6 = 8, 48 ÷ 4 = 12

Q28. 324 cm² ➔ 36 ÷ 2 = 18, 18 x 12 x 0.5 = 108, 108 x 3 = 324

Q29. $18 ➔ 2 pens + 1 pen = 3 pens, 13 ÷ 3 = 4R1, 2 x 2 = 4, 4 x 4 = 16, 16 + 2 = 18

Q30. No model answer available

Q1. $1302 ➔ 4557 x $\frac{2}{7}$ = 1302

Q2. 11 ➔ 2U ➔ 28, 1U ➔ 28 ÷ 2 = 14, 14 x 3 = 42, 42 – 31 = 11

Q3. 102$\frac{2}{3}$ cm ➔ 1u ➔ 308 ÷ 3 = 102$\frac{2}{3}$

Q4. 14 litre ➔ Capacity of Fish tank ➔ 6 x 3 = 18, $\frac{7}{9}$ x 18 = 14

Q5. 75cm² ➔ 5 x 5 = 25, 5 x 2 = 10, 10 + 5 = 15, $\frac{1}{2}$ x 15 x 10 = 75

<div style="border:1px solid">

Q6. \$244 ➔ Alex + Benedict (1u) ➔ 260, Alex + Caleb (6u) ➔ 340, 5u ➔ 340 – 260 = 80, 1u ➔ 80 ÷ 5 = 16, 260 - 16 = 244

</div>

<div style="border:1px solid">

Q7. \$23 ➔ 17 belts + 11 watches ➔ 1909, 1 watch ➔ 6 belts, 11 watches ➔ 6 x 11 = 66 belts, 17 belts + 66 belts ➔ 1909, belt ➔ 1909 ÷ 83 = 23

</div>

Q8. 32cm² ➔ ½ x 35 x 27 = 486, 486 ÷ 3 = 162, 162 x 2 = 324

Q9. 7576 ➔ 8u + 2u + 1u = 11u, 1u ➔ 10417 ÷ 11 = 947, 8u ➔ 947 x 8 = 7576

Q10. 7 ➔ 7 girls ➔ 2 x 7 = 14, 3 boys ➔ 3 x 3 = 9, 14 – 9 = 5

<div style="border:1px solid">

Q11. \$1268.75 ➔ 4u ➔ 580, 1u ➔ 580 ÷ 4 = 145, 145 x 7 = 1015, 1015 ÷ 4 = 253.75, 253.75 x 5 = 1268.75

</div>

Q12. 553 ➔ 6u - 5u = 1u, 1u ➔ 57, adults 57 x 6 = 342, Children ➔ 57 x 5 = 285, 342 – 26 = 316, 285 – 48 = 237, 237 + 316 = 553

Q13. 106 ➔ 6u ➔ 176 – 116 = 60, 1u ➔ 60 ÷ 6 = 10, 116 – 10 = 106

<div style="border:1px solid">

Q14. 108 ➔ 3u ➔ 1p, 3u x 3u ➔ 3p, 9u ➔ 3p, 9u - 2u = 7u, 7u ➔ 29 + 34 = 63, 1u ➔ 63 ÷ 7 = 9, 9 x 5 = 45, 45 + 63 = 108

</div>

Q15. 32cm ➔ Area of triangle ABC ➔ ½ x 7 x 12 = 42, Area of square X ➔ 42 + 122 = 64, $\sqrt{64}$ = 8, 8 X 4 = 32

Q16. 4490 ➔ 9u + 7u = 16u, ➔ 0160 ÷ 16 = 1260, Children ➔ 1260 x 7 = 8820, 8820 – 160 = 8660, girls ➔ 8660 ÷ 2 = 4330, 4330 + 160 = 4490

Q17. 68 ➔ $\frac{1}{3} = \frac{4}{12}$, $\frac{1}{4} = \frac{3}{12}$, $1 - \frac{1}{3} - \frac{1}{4} = \frac{5}{12}$, 2p ➔ 170, 1p ➔ 170 ÷ 2 = 85, 3p ➔ 85 x 3 = 255, 5u ➔ 255, 1u ➔ 255 ÷ 5 = 51, 3u ➔ 51 x 3 = 153, 153 - 85 = 68

<div style="border:1px solid">

Q18a. $\frac{7}{16}$ litre   Q18b. $\frac{9}{80}$ litre

Syrup : water, 2u : 5u, 2u $\frac{1}{8}$, 1u $\frac{1}{8}$ ÷ 2 = $\frac{1}{16}$, 2u + 5u = 7u, $\frac{1}{16}$ x 7 = $\frac{7}{16}$, $\frac{7}{16} - \frac{1}{10} = \frac{27}{80}$

$\frac{27}{80}$ ÷ 3 = $\frac{9}{80}$

</div>

HENRY PARK PRIMARY SCHOOL
2015 SEMESTRAL EXAMINATION 1
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		

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. All diagrams in this paper are not drawn to scale. (20 marks)

1.   Which one of the following is six hundred thousand and fifty-five
     written in numerals?

     (1)   6055
     (2)   60 055
     (3)   600 055
     (4)   6 000 055

2.   There were 149 954 visitors to a tourist attraction last year.
     Express the number to the nearest thousand.

     (1)   149 000
     (2)   149 900
     (3)   150 000
     (4)   150 900

3.   Ravi packed 5 kg of rice equally into 8 containers.
     What is the mass of rice in each container?

     (1)   62.5 g
     (2)   160 g
     (3)   625 g
     (4)   1600 g

(Go on to the next page)

4. Find the area of triangle ABC.
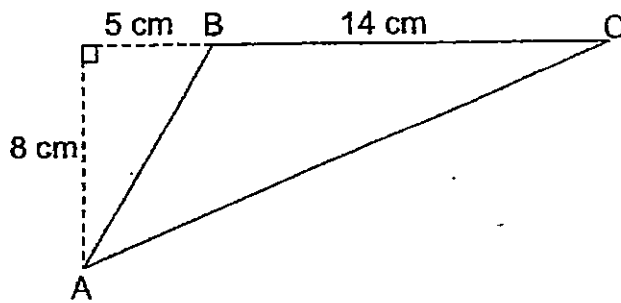
(1) 56 cm^2

(2) 76 cm^2

(3) 112 cm^2

(4) 152 cm^2

5. Express $\dfrac{5}{4}$ as a decimal.

(1) 0.54

(2) 0.80

(3) 1.14

(4) 1.25

6. Find the value of $36 - 16 \div 4 + 20 \times 2$.

(1) 45

(2) 50

(3) 72

(4) 104

(Go on to the next page)

7. What is the missing number in the box?

$$32.08 = 30 + 2 + \dfrac{8}{\boxed{?}}$$

    (1)   10

    (2)   25

    (3)   100

    (4)   1000

8. What is the least number of squares that must be shaded so that AB is the line of symmetry in the figure below?

    (1)   5

    (2)   2

    (3)   3

    (4)   4
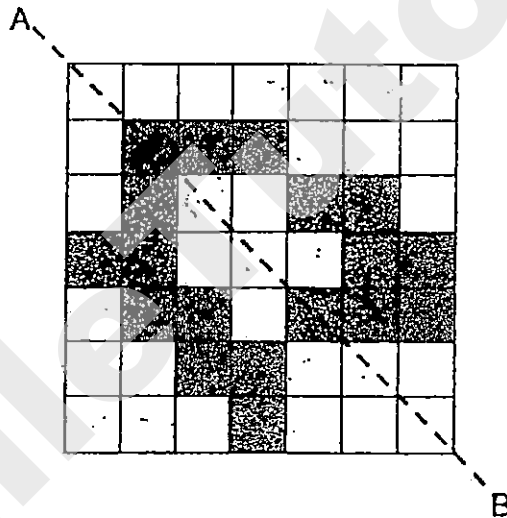
9. The sides of a triangle are in the ratio 3 : 5 : 7. The longest side of the triangle is 28 cm. What is the length of shortest side?

   (1) 4 cm
   (2) 12 cm
   (3) 15 cm
   (4) 20 cm

10. Mdm Ong bought 50 eggs. She used 10 eggs to bake a cake. What percentage of the eggs did she use to bake the cake?

   (1) 10%
   (2) 20%
   (3) 80%
   (4) 90%

11. Mrs Goh had 80 m of ribbon. She cut the ribbon into 10 pieces, each measuring 2.25 m. What was the length of ribbon that she had left?

   (1) 22.5 m
   (2) 57.5 m
   (3) 67.75 m
   (4) 77.75 m

12. In the figure below, ABC is a right-angled triangle.

ABE and BCD are straight lines. BD = BE and ∠BAC = 34°.

Find ∠BED.
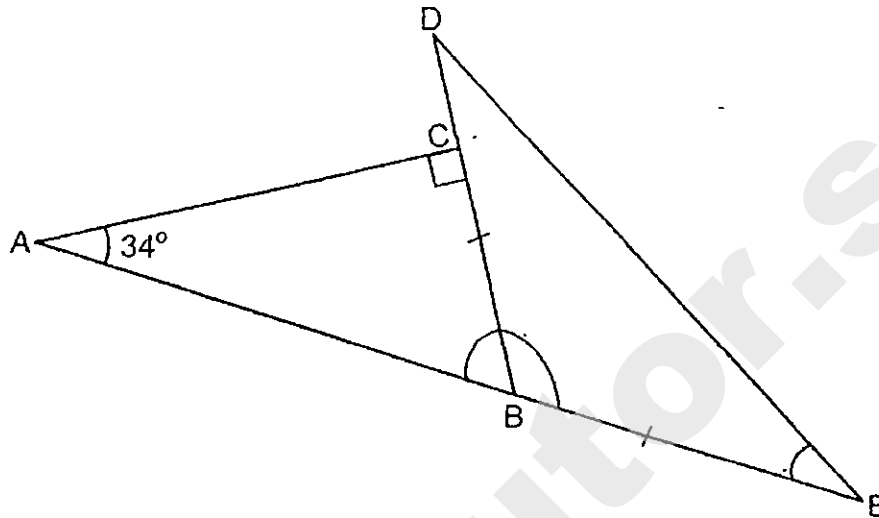
    (1)   28°

    (2)   34°

    (3)   56°

    (4)   124°

13. A box contains some red and green markers. There are $\frac{3}{7}$ as many red markers as green markers. What is the ratio of the number of green markers to the total number of markers?

    (1)   3 : 7

    (2)   4 : 7

    (3)   3 : 10

    (4)   7 : 10

14. A solid is formed by stacking 2-cm unit cubes as shown below. What is the volume of the solid?
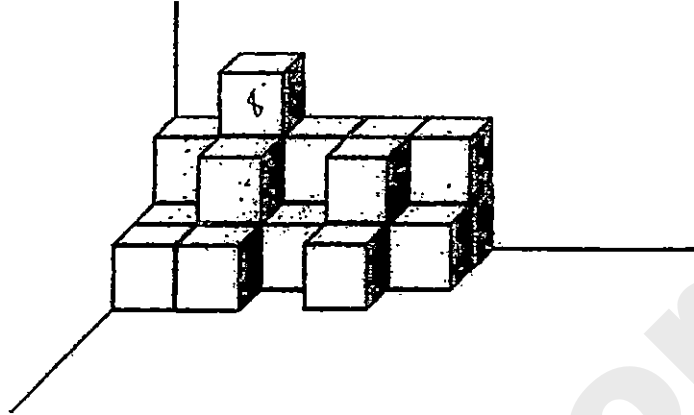
   (1) 21 cm^3
   (2) 42 cm^3
   (3) 144 cm^3
   (4) 168 cm^3

15. In a class of 45 pupils, $\frac{1}{3}$ of the pupils play soccer and $\frac{1}{5}$ of the pupils play badminton. The rest of the pupils play table-tennis. How many pupils play table-tennis?

   (1) 15
   (2) 19
   (3) 21
   (4) 24

(Go on to Booklet B)

HENRY PARK PRIMARY SCHOOL
2015 SEMESTRAL EXAMINATION 1
MATHEMATICS
PRIMARY 5

PAPER 1
(BOOKLET B)

Name: _____

Class: Primary 5._____

| /20 |
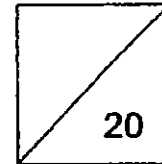
Total Time for Booklets A and B: 50 min

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

You are **not** allowed to use a calculator.

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.

The diagrams in this paper are **not** drawn to scale. (10 marks)

16.　Round off 74.452 to the nearest tenth.

Ans: _____

17.　Find the volume of a cuboid which measures 25 cm by 20 cm by 4 cm.

Ans: _____ cm^3

(Go on to the next page)
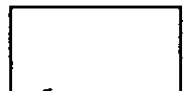
18. What is the missing number in the box below?

$$\frac{\boxed{?}}{10} = 1\frac{3}{5}$$

Ans: _____

19. Given that $3.25 \times 12.5 = 40.625$, find the value of 325×12.5.

Ans: _____

(Go on to the next page)
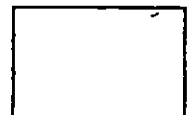
20. Nabilah mixed 5.3 litres of blue paint and 0.5 litres of red paint together. She then poured the mixture equally into 2 containers. What was the volume of paint in each container in millilitres?

Ans: _____ ml

21. In the figure below, AB, CD and EF are straight lines. ∠COE = 68° and ∠BOD = 26°. Find ∠AOF.

Ans: _____ °
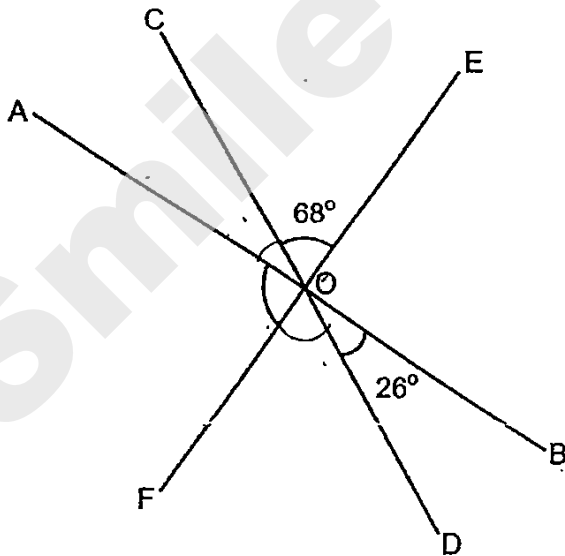
22.   AB and BC are two sides of a rhombus. Complete the rhombus by drawing the other two sides in the square grid below.
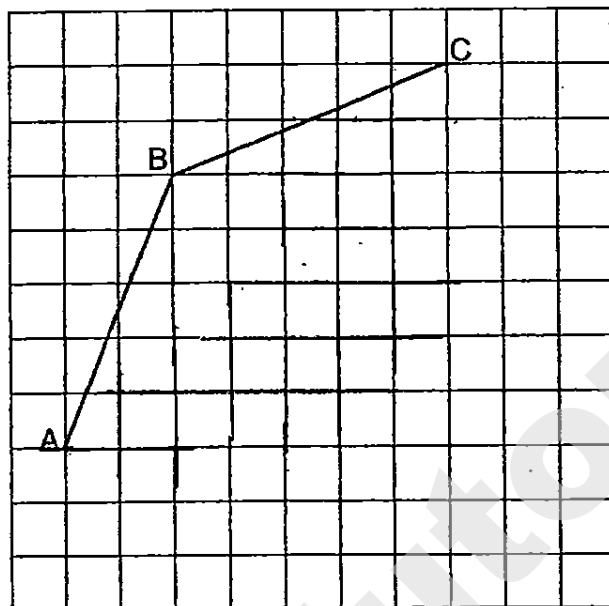
23.   In the figure below, ABC is an equilateral triangle and DEFG is a straight line. ∠AEF = 75°. Find ∠CFG.

Ans: _____ °
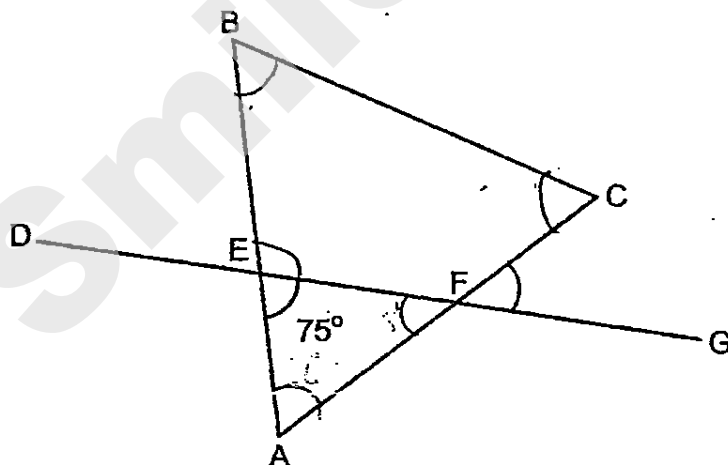
(Go on to the next page)
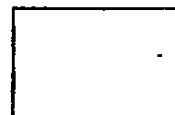
24. The average mass of 9 boys is 48 kg. What is their total mass?

Ans: _____ kg

25. Alice and Charlie had 180 sweets to share between themselves in the ratio of 1 : 5. How many more sweets did Charlie have than Alice?

Ans: _____

(Go on to the next page)
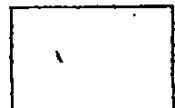
Questions **26** to **30** carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided.
For questions which require units, give your answers in the units stated. (10 marks)

---

26. The pattern in the box below shows part of a tessellation. Extend the tessellation by drawing two more unit shapes in the space provided in the box.
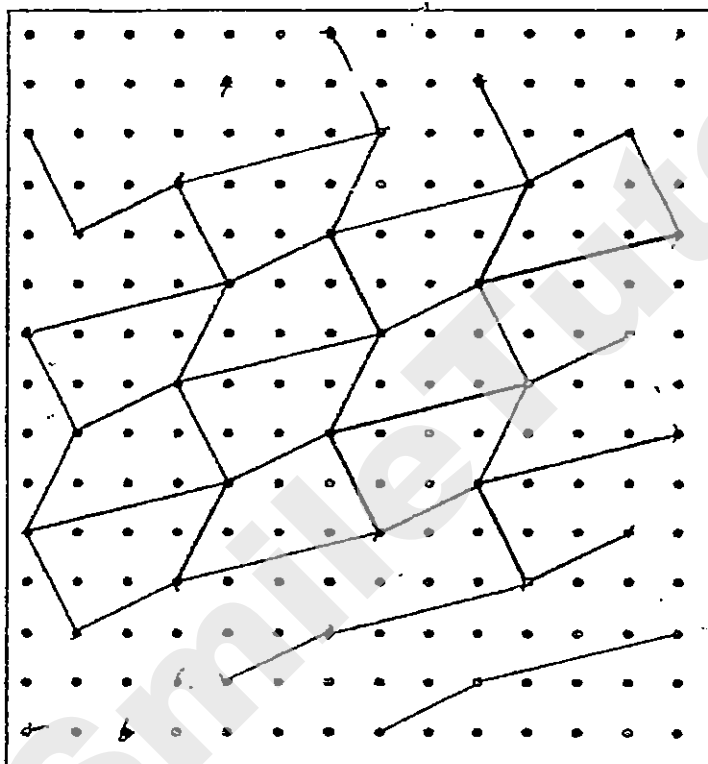
27. At a standing broad jump event, Janice jumped a distance of 1.2 m. Calvin jumped 0.25 m less than Janice. What was the total distance jumped by the two children?

Ans: _____m

28. 10 students stood in a straight line at equal distance apart from each other. Given that the distance between the first and the last student is 180 m, find the distance between the 3rd and the 9th students?

Ans: _____ m

29. Mr Chan earned $5000 a month. He saved 40% of it, spent $600 and gave the rest to his mother. How much money did he give to his mother?

Ans: $ _____

30. Jerine spent $\frac{3}{5}$ of her money on a dress and $\frac{1}{2}$ of the remaining money on a hat. She had $150 left. How much money had she at first?

Ans: $ _____

End of Paper 1

HENRY PARK PRIMARY SCHOOL
2015 SEMESTRAL EXAMINATION 1
MATHEMATICS
PRIMARY 5

PAPER 2

Name: _____

Class: Primary 5 _____

/ 60
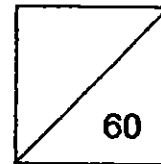
Time for Paper 2: 1 h 40 min

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Show your working clearly as marks are awarded for correct working.

Write your answers in this booklet.

You are allowed to use a calculator.

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. The diagrams in this paper are not drawn to scale.

(10 marks)

1. In a hall, $\frac{3}{10}$ of the students were girls. The rest were boys. There were 308 more boys than girls. How many children were there in the hall?

Ans: _____

2. Mrs Lim had 954 cm of cloth. She used 207 cm of it to make a table cloth and cut the remaining cloth into 9 equal pieces. What was the length of each piece of cloth? Express your answer in metres.

Ans: _____ m

(Go on to the next page)

3. In the figure below, ABCD is a trapezium. AB = BE = AE. ∠ADC = 55°. Find ∠DAE.
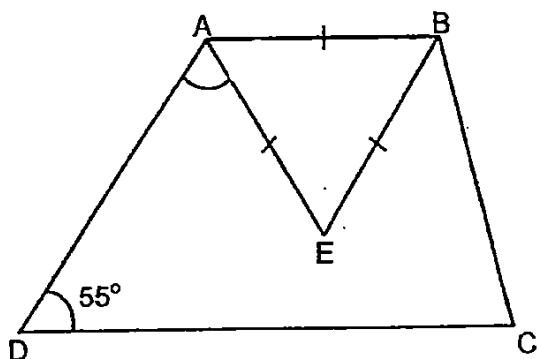
Ans: _____ °

4. The mass of a plate is three times the mass of a cup. The total mass of 3 plates and 2 cups is 1320 g. What is the mass of a plate?

Ans: _____ g

(Go on to the next page)

5. The parking charges at a mall are as follows:

Duration of Parking	Charges
First hour	$2.30
Every additional $\frac{1}{2}$ hour or part thereof	$1.10

Mr Ali parked his car at the carpark from 4.40 p.m. to 7.00 p.m.

How much did he pay for the parking fee?

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. Durians are packed into baskets A, B and C in the ratio 2 : 6 : 11.
   There are 315 more durians in basket C than in basket A.
   Find the total number of durians in all three baskets.

Ans: _____ [3]

7. The prices of guppies are shown in the poster below. What is the least amount of money that John will need to pay for 164 guppies?

GUPPIES FOR SALE!

1 for 80¢
OR
3 for $1.65

Ans: _____ [3]
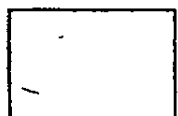
8. Henry had a tank that was $\frac{1}{2}$ filled with water at first. He then added 14.7 ℓ of water into it. How much more water would Henry need to fill the tank to the brim?
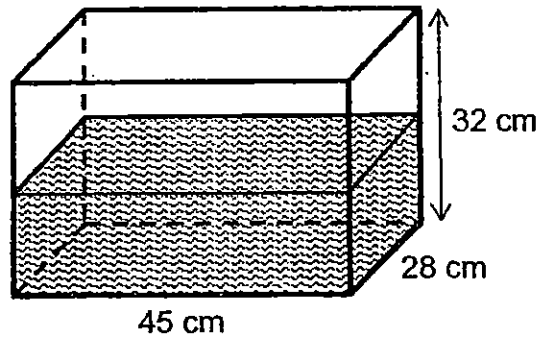
Ans: _____ \[3]
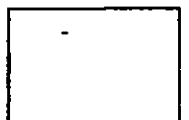
9. There were a total of 850 balloons at a school carnival. 68% of the balloons were red. $\frac{1}{4}$ of the remaining balloons were blue and the rest were pink. How many pink balloons were there?

Ans: _____ [3]

10. The shaded figure below is made up of three identical isosceles triangles. Find the area of the unshaded part.
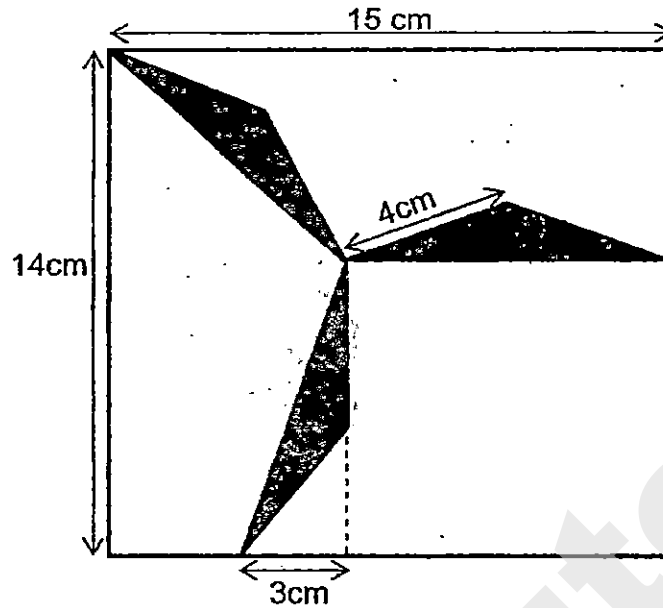
Ans: _____ [3]

11. Mr Tan and his family had dinner at Yummy Chicken Rice Restaurant. The items ordered and the prices are shown in the receipt below.

Description	Quantity	Cost
Steam Chicken (whole)	1	$28
Rice	4	$3.20
Stir-fried vegetables	1	$5.50
Tofu	1	$2.40
Sub-total		
10% service charge on the sub-total		
Total bill with 7% GST		

Part of the receipt was dirtied and some information could not be seen.

(a) Mr Tan had to pay a 10% service charge on the sub-total of the bill. How much service charge did Mr Tan have to pay?

(b) Mr Tan's total bill also included a 7% GST. What was the total bill inclusive of the service charge and GST? Round off your answer to the nearest dollar.

Ans: (a) _____ [2]

(b) _____ [2]

(Go on to the next page)

12. In the figure below, ABCD is a parallelogram and ADE is an isosceles triangle. AD = AE, ∠ABC = 39° and ∠EDF = 23°.

(a) Find ∠DAE.

(b) Find ∠EOF.

A   F   B

39°

O

23°

D   C   E

Ans: (a) _____ [2]

(b) _____ [2]
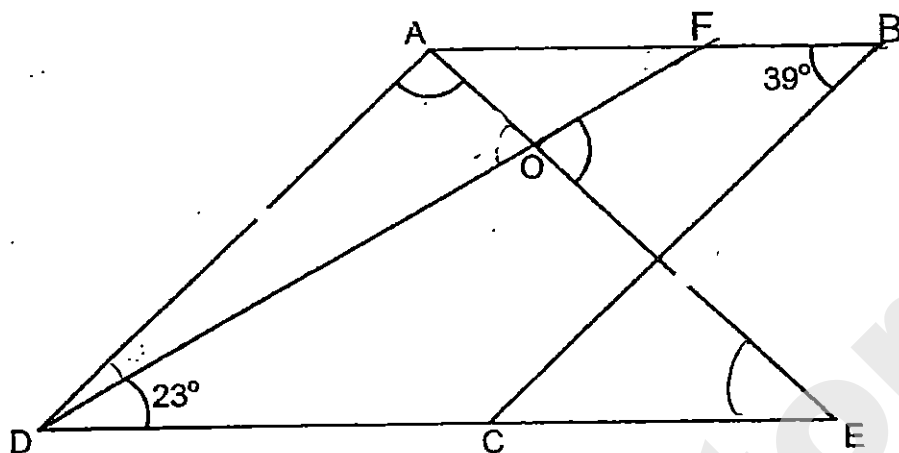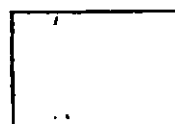
13. The line graph below shows the number of television sets sold by a shop from January to June.

Number of television sets
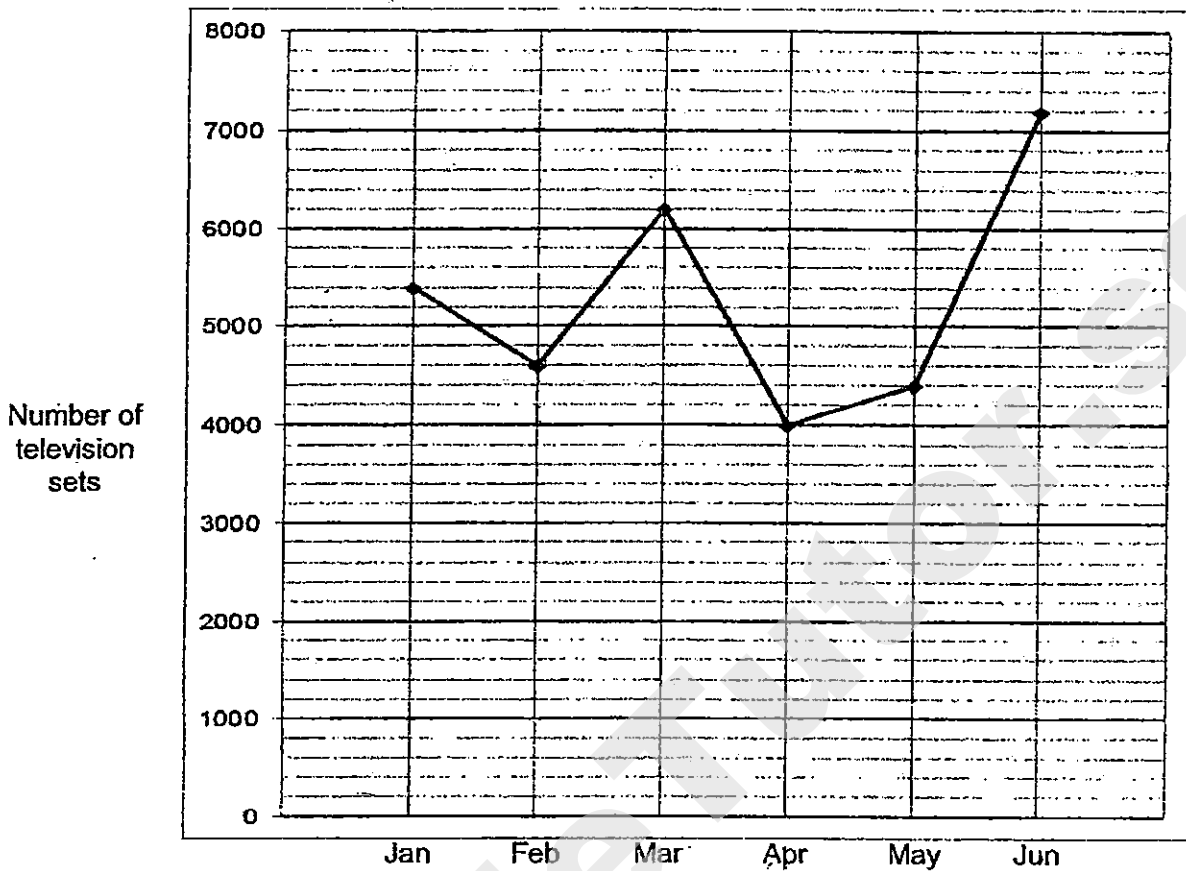
The average number of television sets sold from January to December is 5450. What is the average number of television sets sold from July to December?

Ans: _____ [4]

(Go on to the next page)

P.

14. A shop charges $3 for a T-shirt. For every 30 T-shirts purchased, a 5% discount was given. How much would Miss Chin have to pay for 189 T-shirts?

Ans: _____ [4]

15. Chun Yat bought a bag with $\frac{2}{15}$ of his money. He also bought a watch that cost $204 more than the bag. In the end, he had $\frac{1}{5}$ of his original sum of money left. How much money did he have at first?

Ans: _____ [4]

16. There were 226 more children in Group A than in Group B at first. After 33 children from Group A moved to Group B, there were 5 times as many children in Group A than Group B.

(a) How many more children were there in Group A than Group B after the movement?

(b) How many children were there in Group A and Group B altogether?

Ans: (a) _____ [2]

(b) _____ [3]

17. Faith spent $\frac{4}{11}$ of her money on some pens. She spent $\frac{3}{7}$ of the

remaining sum on a box of crayons and $\frac{1}{2}$ of what was left on

a school bag.

(a) What fraction of Faith's money was left?

(b) Given that the school bag and the box of crayons cost $57.50 altogether, find the sum of money Faith had at first.

Ans: (a) _____ [2]

(b) _____ [3]

Pa_

18. There are three times as many brown marbles as white marbles. The mass of a brown marble is 7 g. The mass of a white marble is 12 g. The total mass of the marbles is 17.16 kg. How many more brown marbles than white marbles are there?

Ans: _____ [5]

-END OF PAPER-

EXAM PAPER 2015
LEVEL   : PRIMARY 5
SCHOOL   : HENRY PARK PRIMARY SCHOOL
SUBJECT : MATHEMATICS
TERM   : SA1

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

Q16. 74.5   Q17. 2000cm³ ➔ 25 x 20 = 500, 500 x 4 = 2000

Q18. 16   Q19. 4062.5

Q20. 2900ml ➔ 5.8÷2=2.9, 2.9litre = 2900ml.

Q21. 86° ➔ 68 +68 +26=26 = 188, 360 −188=172, 172÷2=86

Q22. SEE PICTURE
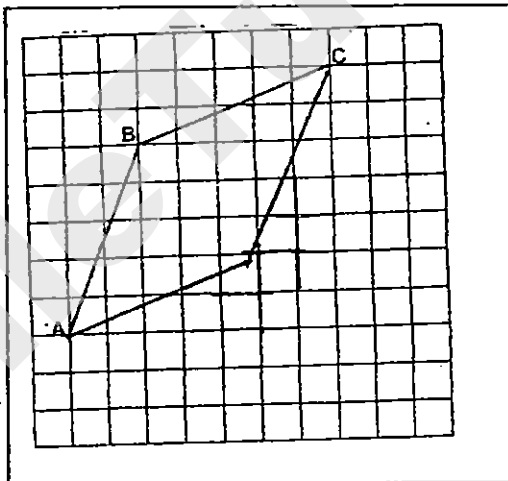
Q23. 45° ➔SEE PICTURE

Q24. 432kg ➔ 48 x 9 = 432

PAGE 1
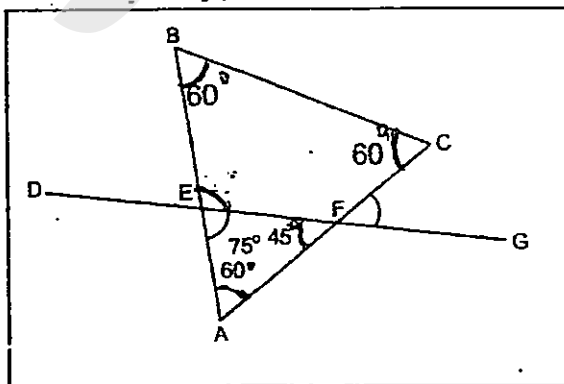
Q25. 120 ➔180÷6=30, 30 x 4 = 120

Q26. SEE PICTURE
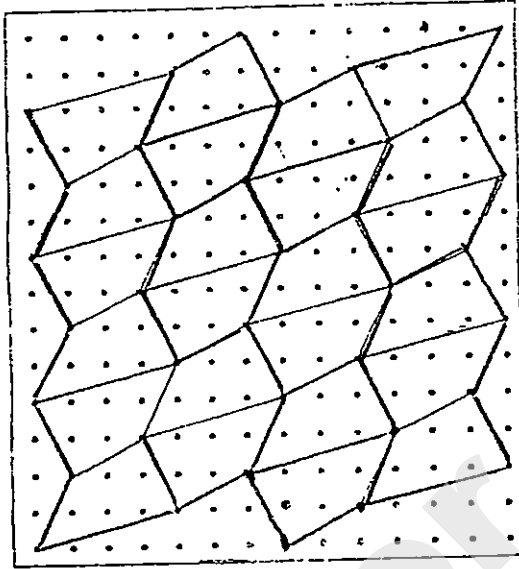
Q27. 2.15m➔ 1.20 – 0.25 = 0.95, 1.20 +0.95 = 2.15

Q28. 120m➔ 180÷9 = 20, 20 x 6 = 120

Q29. $2,400 ➔$\frac{60}{100}$ X 5000 = 3000, 3000 − 600 = 2400

Q30. $750➔ 150 ÷2 = 75, 75 x 10 = 750

PAPER 2

Q1. 770➔ 308 ÷4 = 77, 77 x 10 = 770

Q2. 0.82m ➔954 −207 = 747, 747÷9 = 83, 83cm = 0.83m

Q3. 65°➔ 180 − 55 = 125, 125 − 60 = 65

Q4. 360g➔1320 ÷ 11 = 120, 120 x 3 = 360

Q5. $5.60➔ 2.30 + 1.10 +1.10 +1.10 = 5.60

Q6. 665 durians➔ 315 ÷ 9 = 35, 35 x 19 = 665

Q7. $90.70 ➔164÷3 = 54R2, 1.65 x 54 = 89.10, 0.80 x 2 = 1.60,
8.90 +1.60 = 90.70

Q8. 5460ml➔ 32 x 28 x 45 = 40320, 40320 ÷ 2 = 20160,
20160 + 14700 = 34860, 40320 − 34860 =5460

Q9. 204 pink balloons ➔ $\frac{68}{100}$ x 850 = 578, 850 − 578 = 272,
272 ÷ 4 = 68, 272 − 68 = 2

Q10. 192cm^2 15 x 14 = 210, 3 x 4 ÷ 2 = 6, 6 x 3 = 18, 210 − 18 = 192

Q11a. \$3.91➔ 28 + 3.20 + 5.50 + 2.40 = 39.10 , $\frac{10}{100}$ x 39.10 = 3.91

Q11b. \$7 ➔107% x 43.01 = 46.0207 ≈ 46

Q12a. 102°➔39−23=16, 39 =39=78, 180 − 78 = 102

Q12b. 62°➔ 16 = 102 = 118, 180 − 118 = 62

Q13. \$5600 ➔ 5450 x 12 = 65400, 65400 − 31800 = 33600,
33600 ÷ 6 = 5600

Q14. \$540 ➔ 3 x 30 =90, $\frac{95}{100}$ x 90 = 85.50, 189 ÷ 30 = 6R9,
85.50 x 6 = 513, 3 x 9 = 27, 513 + 27 = 540

Q15. \$382.50 ➔15 − 7 = 8, 8u = \$204, 204 ÷ 8 = 25.50,
25.50 x 15 = 382.50

Q16a. 160 children , Q16b. 240 altogether ➔
33 x 2 = 66, 226 − 66 = 160, 160 ÷ 4 = 40, 40 x 6 = 240

Q17a. $\frac{2}{11}$ ➔ $\frac{4}{11}$, $\frac{2}{11}$ ➔ $\frac{3}{7}$ x $\frac{2}{11}$ = $\frac{3}{11}$, $\frac{4}{11}$ ➔ $\frac{1}{2}$ x $\frac{4}{11}$,

Q17b. \$126.50 ➔ 57.50 ÷ 5 = 11.50, 11.50 x 11 = 126.50

Q18. 1040 more ➔ 7 x 3 (12 x 1) = 33u, 17160 ÷ 33 = 520, 520 x 2 = 1040

THE END

METHODIST GIRLS' SCHOOL (PRIMARY)
Founded in 1887

MGS

MID-YEAR EXAMINATION 2015
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.
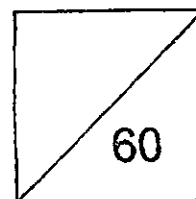Answer all questions.
Shade your answers in the Optical Answer Sheet (OAS) provided.
The use of calculators is **NOT** allowed.

Name: _____ (   )

Class: Primary 5. _____

Date :   12 May 2015

20
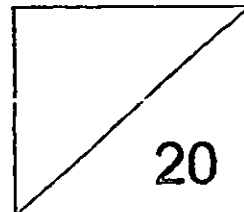
This booklet consists of <u>6</u> printed pages including this page.

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)

_____

1.   In 605.312, which digit is in the tenths place?

     (1)   1

     (2)   2

     (3)   3

     (4)   4

2.   What is the value of $30 - (10 - 8 \div 2) \times 3$?

     (1)   8

     (2)   12

     (3)   27

     (4)   87

3.   Express $40 + \dfrac{1}{4} + \dfrac{4}{1000}$ as a decimal.

     (1)   40.14

     (2)   40.104

     (3)   40.254

     (4)   40.29

4. How many grams are there in 8.03 kg?

   (1) 803 g

   (2) 8 003 g

   (3) 8 030 g

   (4) 80 300 g

5. $\frac{5}{7} \div 3$ has the same value as _____.

   (1) $\frac{5}{7} \times 3$

   (2) $\frac{7}{5} \times 3$

   (3) $\frac{5}{7} \times \frac{1}{3}$

   (4) $\frac{7}{5} \times \frac{1}{3}$

6. Melody is 6 years older than Brenda. Brenda is 11 years old now. What is their total age in 10 years' time?

   (1) 17

   (2) 27

   (3) 28

   (4) 48

7. Round off 3.499 to 2 decimal places.

  (1) 3.40

  (2) 3.49

  (3) 3.50

  (4) 3.59

8. Which one of the following is nearest to 1?

  (1) $\dfrac{3}{8}$

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

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

  (4) $1\dfrac{1}{5}$

9. 5 girls share half a pie. What fraction of the pie did each girl get?

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

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

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

  (4) 10

10. A movie lasted $1\frac{3}{4}$ h. It ended at 18 40. At what time did the movie start?

    (1)   16 05

    (2)   16 55

    (3)   17 05

    (4)   17 25

11. The length of Rope A is 6 m. The total length of Rope B and Rope C is 6 m. What fraction of the total length is Rope A?

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

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

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

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

12. Siti has $\frac{6}{7}$ kg of sugar. She used $\frac{2}{3}$ of it to bake cookies. How much sugar had she left?

    (1) $\frac{4}{21}$ kg

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

    (3) $\frac{11}{21}$ kg

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

13. The product of two numbers is 3 600. One of the numbers is 20. What is the sum of the two numbers?

 (1) 200

 (2) 1 820

 (3) 3 600

 (4) 36 000

14. The total mass of three bags of rice is 8 kg 20 g. One bag of rice has a mass of 2 kg 60 g while the other two bags have exactly the same mass. What is the mass of each of the 2 bags of rice?

 (1) 2 530 g

 (2) 2 800 g

 (3) 2 980 g

 (4) 3 070 g

15. In the figure, AC = CE = EA. AB = BC = CD = DE.
What fraction of the triangle is shaded?

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

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

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

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

(Go on to the Booklet B)

METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887

MID-YEAR EXAMINATION 2015
PRIMARY 5
MATHEMATICS

PAPER 1
(BOOKLET B)

Total Time for Booklets A and B: 50 minutes

<u>INSTRUCTIONS TO CANDIDATES</u>

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 : 12 May 2015

Parent's Signature : _____

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

This booklet consists of <u>7</u> 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)

16. 87 645 = 800 hundreds + [   ] tens + 45 ones.

What is the missing number in the box?

Ans : _____

17. Express 3.08 as a fraction in its simplest form.

Ans : _____

18. A printer can print 150 posters every 10 minutes. How many posters can it print in an hour?

Ans : _____

19. What is the missing number in the box?

$880 \div \boxed{} = 0.88$

Ans : _____

20. What is the remainder when 2 988 is divided by 8?

Ans : _____

21. What is the length of the pencil in the figure below?

Ans : _____ cm

3
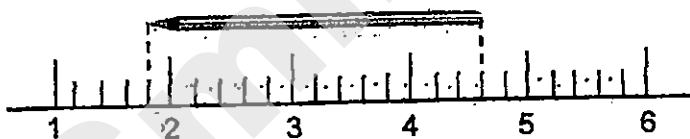
22. There are 110 children in the auditorium. $\frac{3}{5}$ of the children are girls. How many boys are there in the auditorium?

Ans : _____

23. What is the value of $\frac{4}{5} \times \frac{15}{16}$?

Give your answer as a fraction in its simplest form.

Ans : _____

24. Express 50.6 cm in metres.

Ans : _____ m

25. Arrange $\frac{4}{5}$, $\frac{1}{2}$, $\frac{3}{10}$ and $\frac{13}{20}$ in ascending order.

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)

26. Mrs Lee bought 4 chairs and 1 table for $245. The table cost 3 times as much as a chair. How much did she pay for one table?

Ans : $ _____

27. Find the difference between 2.38 km and 6 km 5 m.

Ans : _____ km _____ m

28. Nicole is between 10 and 30 years old. This year, her age is a multiple of 4. Next year, her age is a multiple of 7. What is her age?

Ans : _____

6

29. Container A had 80.5 litres of water. The water was poured into 5 small containers equally. What was the amount of water in each small container? Give your answer in millilitres.

Ans : _____ mℓ

---

30. Li Yan had some money. She spent $\frac{1}{3}$ of it on a book and $\frac{2}{5}$ of it on a bag. The book and the bag cost \$132 altogether. How much money did she have at first?

Ans : \$_____

End of Booklet B

7

METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887

MID-YEAR EXAMINATION 2015
PRIMARY 5
MATHEMATICS

PAPER 2

Duration: 1h 40 min

INSTRUCTIONS TO CANDIDATES

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

Name: _____ ( )

Class: Primary 5._____

Date: 12 May 2015

Parent's Signature : _____

/ 60

This booklet consists of 13 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)

---

1. Water leaks from a tap at a rate of 15 mℓ per minute. At this rate, how much water will leak in 2 hours? Give your answer in litres.

Ans : _____ ℓ

---

2. A length of ribbon is 30 m 5 cm long. After using 17 m of it for a large parcel, the remaining ribbon was cut into 5 equal pieces. What was the length of each piece of ribbon? Give your answer in centimetres.

Ans : _____ cm

3. At a sale, books are sold in sets of 3. Each set costs $32.75. Cherie has $150.50, how many books can she buy at most?

Ans.: _____

4. Arielle poured $\frac{3}{8}$ ℓ of orange juice equally into 2 cups. Find the total amount of orange juice in 3 such cups.

Ans : _____ ℓ

5. In the number line below, AX = XB. What is the value of X?
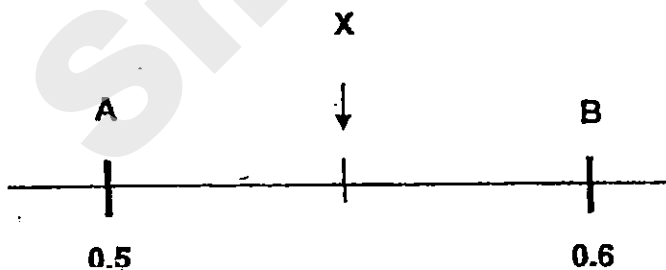
X

A   ↓   B

|——|——|——|——
0.5   0.6

Ans : _____

For questions **6** to **18**, 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.   (50 marks)

---

6. The table below shows the number of pupils from School A and School B who participated in an Art Competition. $\frac{7}{8}$ of the total number of pupils were awarded prizes. How many pupils from School B were awarded prizes?

	School A	School B
No. of pupils	88	120
No. of pupils who were awarded prizes	70	?

Ans : _____ [3]

---

7. Audrey and Cynthia had some beads. Cynthia had 104 more beads than Audrey. After Cynthia gave away 218 beads, Audrey then had 4 times as many beads as Cynthia. Find the number of beads Cynthia had in the end.

Ans: _____ [3]

4

8. There were 30 children at a party. $\frac{3}{10}$ of them were boys. Each boy had 8 balloons. The total number of balloons the boys had was 12 fewer than the total number of balloons the girls had.

(a) How many balloons did all the boys have?

(b) How many balloons did each girl have?

Ans : (a) _____ [1]

(b) _____ [2]

9. Ahmad wanted to buy a digital book. He saved $\frac{2}{7}$ of the cost of the digital book in the first week. In the second week, he saved $56 less than the amount he saved in the first week. He managed to save the remaining $233 in the third week. How much did the digital book cost?

Ans : _____ . [3]

5

10. Mrs Muthu decided to take her class to the museum. The ticket prices are as shown in the table below.

1 Adult Ticket	$25
1 Child Ticket	$12
Special price for every 10 Child Tickets	$100

Mrs Muthu bought tickets for 2 adults and 39 children. What would be the least amount that Mrs Muthu would need to pay?

Ans _____ [3]

11. The total capacity of 2 similar jugs is the same as the total capacity of 5 similar cups. 20.46 ℓ of water is needed to fill up 4 jugs and 12 cups. What is the capacity of one cup? Give your answer in mℓ.

Ans : _____ [4]

12. There are 36 pupils in a class. Each boy is given 3 stamps and each girl is given 5 more stamps than each boy. The total number of stamps the girls received is 46 more than the total number of stamps the boys received. How many girls are there in the class?

Ans : _____ [4]

13. At a stationery shop, there were a total of 952 pens, rulers and erasers. There were 5 times as many pens as rulers. There were twice as many pens as eraser.

(a) How many pens were there?

(b) The shop received $420 from the sale of all the ~~pens~~ erasers. All erasers were sold at the same price. What was the cost of one eraser?

Ans: (a) _____ [2]

(b) _____ [2]

14. Mr Chan has \$5 280. He spent $\frac{3}{4}$ of it on a holiday trip and gave $\frac{1}{3}$ of the remainder equally to his 2 children. He saved the rest of his money.

(a) How much money did each of his children receive?

(b) How much money did Mr Chan save?

Ans : (a) _____ [2]

(b) _____ [2]

9

15. Esther went to the post office to send some letters to her friends in ~~India~~ Indonesia and Japan. The postage rates to the two countries are shown below.

Mass up to	Destination	
	Indonesia	Japan
First 20g	$0.70	$1.30
Every additional 10g or part thereof	$0.25	$0.35

(a) She sent a letter weighing 32g to Indonesia. How much did she pay for the postage?

(b) She paid $2.35 for the postage of letter to Japan. What is the least possible mass of the letter? Give your answer as a whole number.

Ans: (a) _____ [2]

(b) _____ [2]
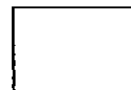
16. There were some $2 and $10 notes. These notes amounted to $214. There were 11 more $2 notes than $10 notes.

(a) How many $2 notes are there?

(b) What is the difference in amount between the $2 notes and $10 notes?

Ans: (a) _____ [3]

(b) _____ [2]

17. Ahmad spent $\frac{1}{6}$ of his money on a pair of shoes and $\frac{1}{2}$ of the remainder on 2 headphones. After that, his mother gave him $1292. Now Ahmad has twice of his original amount of money.

(a) How much money did he have at first?

(b) Both headphones were sold at the same price. How much money did he spend on each headphone?

Ans : (a) _____ [3]

(b) _____ [2]
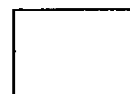
18. There were 17.9 ℓ of water in a basin and $1\frac{7}{10}$ ℓ of water in a pail.

Eng Seng poured in an equal amount of water into each container. Now the amount of water in the basin is 4 times that in a pail. How much water did Eng Seng pour into each container? Give your answer in litres and millilitres.

Ans: _____ . [5]

End of Paper 2

EXAM PAPER 2015
LEVEL   : PRIMARY 5
SCHOOL   : METHODIST GIRLS SCHOOL (PRIMARY) SCHOOL
SUBJECT : MATH
TERM   : CA1

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

Q16. ANS : 760

Q17. ANS : $3\frac{2}{25}$

$3\frac{8}{100} = 3\frac{4}{50} = 3\frac{2}{25}$

Q18. ANS : 900 posters
10 min → 150 (x 6)
60min → 900

Q19. ANS : 1000
880 ÷ 1000 = 0.88

Q20. ANS : 4
2988 ÷ 8 = 373 r 4

Q21. ANS : 2.8cm
6 − 5 = 1
5 gaps → 1
1 gap → 1 ÷ 5 = 0.2
4.6 − 1.8 = 2.8

Q22. ANS : 44 boys
G → $\frac{3}{5}$ x 110 = 66
110 − 66 = 44

Q23. ANS : ¾
$\frac{4}{5}$ x $\frac{15}{16}$ = $\frac{3}{4}$

Q24. ANS : 0.506M
50.6 ÷ 100 = 0.506

Q25. ANS : $\frac{3}{10}$, $\frac{1}{2}$, $\frac{13}{20}$, $\frac{4}{5}$

$\frac{4}{5} = \frac{16}{20}$, $\frac{1}{2} = \frac{10}{20}$

$\frac{3}{10} = \frac{6}{20}$

$\frac{6}{20}$, $\frac{10}{20}$, $\frac{13}{20}$, $\frac{16}{20}$

$\frac{3}{10}$, $\frac{1}{2}$, $\frac{13}{20}$, $\frac{4}{5}$

Q26. ANS : 4105

4U + 3U = 7U

7U → 245

IU → 245 ÷ 7 = 35

T → 3U

3U → 35 X 3 = 105

Q27. ANS : 3km 625m

6km 5m = 6.005km

6.005km − 2.38km = 3.625km

3.625km = 3km625m

Q28. ANS : 20 years old

Multiples of 4 – 12,16,20,24,28

     + 1

13,17,21,25,29

Multiples of 7 - 14,21,28

21 – 1 = 20

Q29. ANS : 16100ml

80.5litre ÷ 5 = 16.1litre

16.1litre = 16100ml

Q30. ANS : $180

$\frac{1}{3} + \frac{2}{5} = \frac{5}{15} + \frac{6}{15} = \frac{11}{15}$

$\frac{11}{15}$ → 132

$\frac{1}{15}$ → 132 ÷ 11 = 12

12 X 15 = 180

PAPER 2

Q1. ANS : 1.8LITRE

2hrs → 120min (60 x 2)

15 x 120 = 1800

1800ml = 1.8litre

Q2. ANS : 261cm
30m 5cm = 30.05m
30.05m − 17m = 13.05m
13.05m ÷ 5 = 2.61m
2.61m = 261cm

Q3. ANS : 12 books
150.50 ÷ 32.75 = 4.595
4 x 3 = 12

Q4. ANS : $\frac{9}{16}$ litre

1 cup ➔ $\frac{3}{8}$ ÷ 2 = $\frac{3}{16}$

$\frac{3}{16}$ x 3 = $\frac{9}{16}$

Q5. ANS : 0.55
0.6 − 0.5 = 0.1
0.1 ÷ 2 = 0.05
0.6 − 0.05 = 0.55

Q6. ANS : 112 pupils
88 + 120 = 208
A P ➔ $\frac{7}{8}$ x 208 = 182
182 − 70 = 112

Q7. ANS : 38 beads
218 − 104 = 114
4U − 1U = 3U
3U ➔ 114
1U ➔ 114 ÷ 3 = 38

Q8. ANS a : 72 balloons
B ➔ $\frac{3}{10}$ x 30 = 9
9 x 8 = 72

Q8b. ANS : 4 balloons
Total balloons (G) ➔ 72 + 12 = 84
G ➔ 30 − 9 = 21
84 ÷ 21 = 4

Q9. ANS : $413.
233 − 56 = 177
$\frac{3}{7}$ ➔ 177
$\frac{1}{7}$ ➔ 177 ÷ 3 = 59
$\frac{7}{7}$ ➔ 59 x 7 = 413

Q10. ANS : $458
A ➡ 25 x 2 = 50
39 ÷ 10 = 3.9
12 x 9 = 108
3 x 100 = 300
300 + 108 + 50 = 458

Q11. ANS : 930ml
2J ➡ 5C
4J ➡ 10C
10C + 12C = 22C
22C ➡ 20.45
1C ➡ 20.46 ÷ 22 = 0.93
0.93LITRE = 930ML.

Q12. ANS : 14 girls
Assume all are boys
Total stamps collected ➡ 36 x 3 = 108
Actual stamps collected ➡ 108 + 46 = 154
Number of girls ➡ 154 ÷ (8+3) = 14

Q13. ANS : a) 560 pens   Q13b) ANS : $1.50
P   :   R   :   E
10   :   2   :   5 (17U)

17U ➡ 952
1U ➡ 952 ÷ 17 = 56

a) 56 x 10 = 560

b) No. of erasers ➡ 56 x 5 = 280
Cost of 1 eraser ➡ 420 ÷ 280 = 1.50

Q14a. ANS : $220   Q14b. $880
HT   ¾ x 5280 = 3960
¼   5280 – 3960 = 1320
2C ⅓ X 1320 = 440
(a) 440 ÷ 2 = 220
(b) 1320 – 440 = 880

Q15a. ANS : $1.20   Q15b. ANS : 41g
a.) 20 + 10 + 2 = 32
$0.70 + $0.25 + $0.25 = $1.20

b) First 20g ➡ 1.30
2.35 – 1.30 = 1.05
1.05 ÷ 0.35 = 3
20 + 10 + 10 + 1 = 41

Q16a. ANS: 27 $2 notes   Q16b. ANS : $106

Excess → 11 x 2 = 22
2U → $214 – 22= 192
1 set → 10 + 2 = 12
1U   192 ÷ 12 = 16
(G) 16 + 11 = 27

Value of $2 notes → 27 x 2 = 54
Value $10 → 16 x 10 = 160

b)   160 – 54 = 106

Q17a. ANS : $816   Q17b. ANS : $170

(a)
Shoes → 2U
2HP → 5U
24 – 5 = 19
1U → 1292 ÷ 19 = 68
24 ÷ 2 = 12
TOTAL → 68 X 12 = 816

(b)
68 x 5 = 340
340 ÷ 2 = 170

Q18. ANS : 3 litre 700ml

$1\frac{7}{10} = \frac{17}{10} = 1.7$
4U – 1U = 3U
3U → 17.9 – 1.7 = 16.2
1U → 16.2 ÷ 3 = 5.4
5.4 X 4 = 21.6
21.6 – 17.9 = 3.7
3.7litre = 3 litre 700ml

THE END

5

503 / SA1 / 13

NAN HUA PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 1 – 2015
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

<u>INSTRUCTION TO CANDIDATES</u>

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 <u>not allowed</u> to use the calculator for Paper 1.

Marks Obtained

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

Name : _____ (   )

Class : 5_____

Date : 13 May 2015   Parent's Signature:_____

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. Which one of the following has the digit '7' in the ten thousands place?

    (1)   409 781

    (2)   704 198

    (3)   847 190

    (4)   970 841

2. Find the value of 20 + (40 − 16) ÷ 2.

    (1)   14

    (2)   22

    (3)   32

    (4)   52

3. Mrs Tan's monthly salary became $5 500 when rounded off to the nearest hundreds. Which one of the following could be Mrs Tan's actual monthly salary?

    (1) $5 425

    (2) $5 450

    (3) $5 550

    (4) $5 565

1

4. Which one of the following has the same value as $\frac{6}{7} \div 4$?

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

    (2) $\frac{7}{24}$

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

    (4) $4\frac{2}{3}$

5. How many eighths are there in $7\frac{1}{2}$?

    (1)   10

    (2)   15

    (3)   57

    (4)   60

6. Which one of the following shapes has only 2 lines of symmetry?

(1)
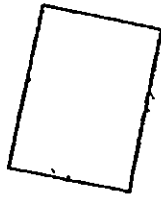
(2)

(3)

(4)
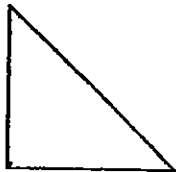
7. Which one of the following is equivalent to 7 : 9?

(1)   35 : 45

(2)   35 : 54

(3)   28 : 32

(4)   28 : 45

8. The figure below, not drawn to scale, shows a shaded triangle ABC. If the base of triangle ABC is AB, which one of the following is its corresponding height?
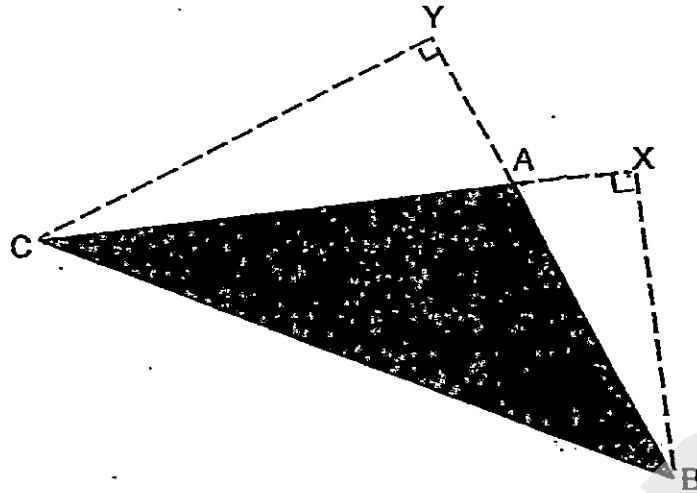
(1) AC

(2) AY

(3) BX

(4) CY

9. Ali and Baba received 272 sweets in the ratio 3 : 5 respectively. How many more sweets did Baba receive than Ali?

(1) 170

(2) 102

(3) 68

(4) 34

10. Alice's mass is $\frac{5}{9}$ of Donald's mass. What is the ratio of Alice's mass to their total mass?

    (1)   5 : 9

    (2)   5 : 14

    (3)   9 : 5

    (4)   9 : 14

11. Jason spent $\frac{3}{7}$ of his money on a toy and $\frac{3}{8}$ of his remaining money on a calculator. He then found out that he had $35 left. How much money did he have at first?

    (1) $21

    (2) $42

    (3) $63

    (4) $98

12. Some letters are arranged in the following pattern:

| L O V E L O V E L O V E ... |

1st

What will be the 100th letter?

(1) L

(2) O

(3) V

(4) E

13. A bus can either seat 36 children or 20 adults. If there are already 5 children and 6 adults on the bus, what is the most number of additional children that can still be seated in the bus?

(1) 14

(2) 16

(3) 22

(4) 31

14. Study the following pattern carefully.

261, 258, 255, 252, ..., $\boxed{?}$

1st 70th

What is the number in the 70th position?

(1)   51

(2)   54

(3)   191

(4)   192

15. Square ABCD, not drawn to scale, measures 10 cm by 10 cm. What is the total area of the shaded parts?
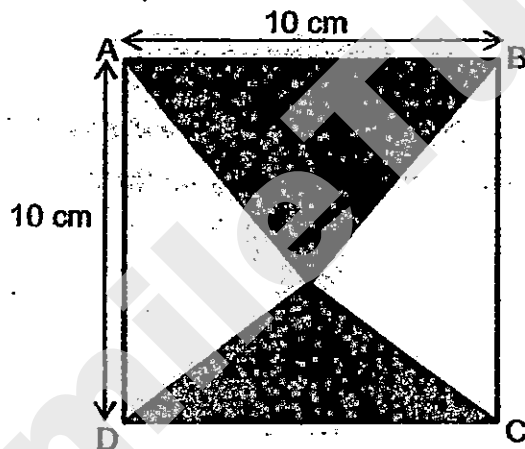
(1)   25 cm^2

(2)   50 cm^2

(3)   75 cm^2

(4)   100 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.

16. Arrange the following fractions in ascending order.

$$\frac{17}{4}, \quad \frac{39}{8}, \quad \frac{9}{2}$$

Ans: _____ , _____ , _____

Smallest ⟶ Biggest

17. $1895 \div \boxed{\ ?\ } = 18.95$

Ans: _____

18. What is the sum of all the factors of 49?

Ans: _____

19. What is 24 : 32 in its simplest form?

Ans: _____

20. What is 51.095 when rounded off to 2 decimal places?

Ans: _____

21. What is the ratio of 15 metres to 2 kilometres? Give your answer in the simplest form.

Ans: _____

22. In the figure below, how many **more** circles must be shaded such that the number of shaded circles is $\frac{2}{3}$ the total number of circles?
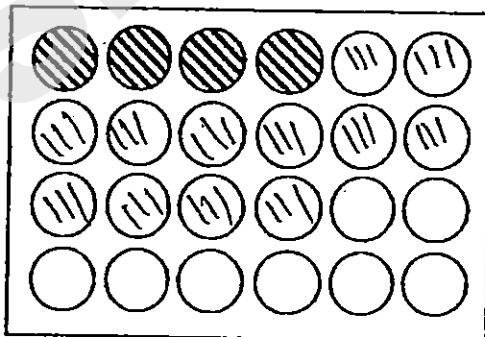
Ans: _____

23. What is the missing sign (+, −, ×, ÷) in the box below?

$$20 \times (10 \boxed{?} 5) = 100$$

Ans: _____

24. Using the number cards provided below, form the **smallest** 4-digit **odd** number Each digit can only be used once.

| 7 | 6 | 5 | 4 | 2 |

Ans: _____

25. Jenny had some stickers. She kept $\frac{1}{9}$ of her stickers and gave the remaining stickers to 4 friends equally. What fraction of all the stickers did each friend receive?

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 requires units, give your answers in the units stated.

26.   In the number line below, find the fraction exactly halfway between $\frac{1}{5}$ and $\frac{1}{3}$.

$\frac{1}{5}$? $\frac{1}{3}$
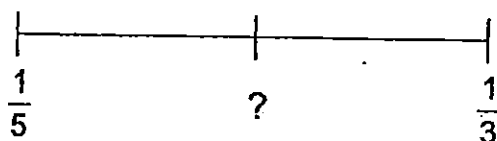
Ans: _____

27.   A string is 1.82m longer than a rope. The rope is 3 times as long as a thread. If the total length of the string, rope and thread is 12.6m, find the length of the thread.

Ans: _____.m

11

28. Joyce had $\dfrac{5}{6}$ as many pens as Ben. Eric had $\dfrac{1}{2}$ as many pens as Ben.

Express Joyce's number of pens as a fraction of the total number of pens.

Ans: _____

29. The ratio of Jack's money to Dave's money was 2 : 5. They had a total of $196. After Jack received another $64 from his mother, what was the new ratio of Jack's money to Dave's money?

Give your answer in the simplest form.

Ans: _____

30. Some potted plants were planted along the perimeter and at each corner of a square garden. Each potted plant was evenly spaced at 2m apart. Given that the perimeter of the garden was 64m, what was the total number of potted plants planted?

Ans:_____

END OF PAPER 1

NAN HUA PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 1 – 2015
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

Name : _____(   )

Class : 5 _____

Date : 13 May 2015   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. Beatrice paid $18 for 1 book and 6 similar pens. The book cost thrice as much as a pen. How much did a pen cost?

Ans: $_____

2. In a bakery shop, cupcakes were sold only in boxes of 6 and each box cost $13. What was the most number of cupcakes a customer could buy with $240?

Ans: _____

1

3. Aini and Bobby had a sum of money each.

$\frac{3}{4}$ of Aini's money was equal to $\frac{5}{8}$ of Bobby's money.

What was the ratio of Bobby's total sum of money to Aini's

total sum of money? Give your answer in the simplest form.

Ans: _____

4. The figure below is not drawn to scale. AB = 14 cm, BM = 20 cm and

BM is perpendicular to AB. The area of triangle DEC is $\frac{2}{7}$ of the area

of triangle ABC. What is the area of triangle DEC?
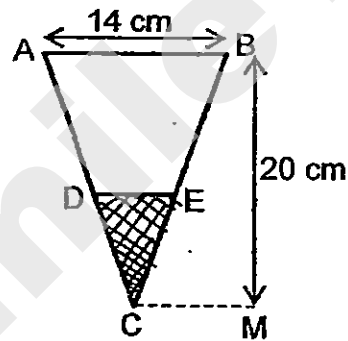
Ans: _____ cm^2

5. The table below shows the charges for parking a car in Shopping Centre A.

First hour	$7
For every additional half hour or part thereof	$1

How much did Mr Lim pay if he parked his car in Shopping Centre A for 5 hours and 15 minutes?

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.

6. Mrs Tan bought 96 eggs. She put half the eggs equally into 6 trays and the other half equally into 4 containers. How many eggs were there in 3 trays and 1 container?

Ans: _____[3]

7. The ratio of Richard's money to Mel's money was 1 : 7. How much money must Mel give to Richard so that each of them will have $104?

Ans: _____[3]

8. James gave $\frac{7}{12}$ of his money to his mother and spent $\frac{3}{10}$ of the remaining money on a T-shirt. He saved the rest.

   (a) What fraction of his money did he spend on the T-shirt? Express your answer in the simplest form.

   (b) If he saved $105, how much money did he have at first?

   Ans: (a) _____ [1]

   (b) _____ [2]

9. Daphne had 30 stamps more than Paul at first. After Daphne gave Paul 42 stamps, Paul had thrice as many stamps as Daphne.
   How many stamps did Daphne have at first?

   Ans: _____

10. The figure below is not drawn to scale. All the lines meet at right angles.

(a) Find the perimeter of the figure.
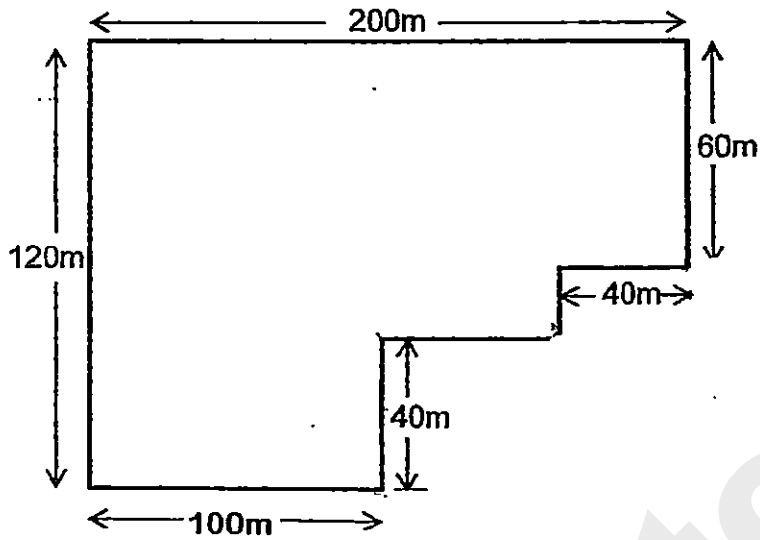
(b) Find the area of the figure.

Ans: (a) _____ [1]

(b) _____ [2]

11. A packet of flour cost $2. A packet of chocolate powder cost $3 more.
Mrs Lim bought twice as many packets of flour as chocolate powder.
She paid $189 in total. How many packets of flour did Mrs Lim buy?

Ans: _____ [4]

12. At a fruit stall, the ratio of the number of apples to the number of
oranges was 5 : 3. There were 600 more apples than oranges.
The apples were sold at 3 for $1 and the oranges were sold at 5 for $2.
What was the total amount of money collected from the sale of all the
apples and oranges?

Ans: _____[4]

7

13. Belinda had 159 beads. Emily had 282 beads. After both girls gave away

an equal number of beads, Belinda had $\frac{2}{5}$ as many beads as Emily.

How many beads did Belinda and Emily give away altogether?

Ans: _____ [4]

14. The figure below, not drawn to scale, is made up of a triangle overlapped with a rectangle. The area of the triangle is $\frac{1}{3}$ the area of the rectangle. Given that $\frac{2}{5}$ of the triangle is shaded and the total area of the unshaded parts is 2400 cm^2, what is the area of the figure?
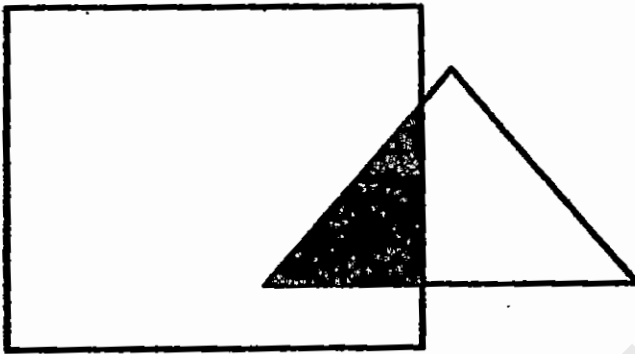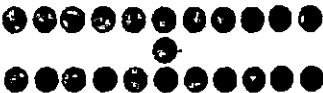
Ans: _____ [4]
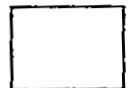
15. Study the pattern carefully and answer the questions that follow.

Pattern 1	Pattern 2	Pattern 3

(a) How many dots are there in Pattern 4?

(b) How many dots are there in Pattern 10?

(c) In which pattern would there be 791 dots?

Ans: (a) _____[1]

(b) _____[1]

(c) _____[2]
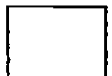
16. The total cost of 9 similar necklaces and 5 similar earrings was $1440.
The total cost of 2 such necklaces and 3 such earrings was $439.
Find the total cost of 1 necklace and 1 earring.

Ans: _____ [5]

11

17. Alex and Billy had some game cards.

   If Billy gave Alex 45 game cards, they would have an equal number of game cards.

   If Alex gave Billy 145 game cards, Billy would have 5 times as many game cards as Alex.

   (a) How many game cards did Billy have?

   (b) How many game cards did Alex have?

Ans: (a) _____ [3]

   (b) _____ [2]

18. There are 162 buttons in Box A, Box B and Box C altogether.
Some buttons are first transferred from Box A to Box B, causing Box B's number of buttons to be tripled.

$\frac{1}{4}$ of Box B's buttons are then transferred from Box B to Box C.

Finally, 24 buttons are transferred from Box C to Box A.
There is an equal number of buttons in each box at the end.
Find the number of buttons in each box at first.

Ans: Box A: _____

Box B: _____

Box C: _____ [5]

END OF PAPER 2

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

Q16. Smallest➔ Biggest ➔ $\frac{17}{4}, \frac{9}{2}, \frac{39}{8}$

Q17. 100

Q18. 57 ➔ 1,7,49, 50 + 7 = 57

Q19. 3:4

Q20. 51 : 10

Q21. 3:400 ➔ $\frac{15}{2000} = \frac{3}{400}, \frac{3}{400} = 3:400$

Q22. 12 ➔ 4 x 6 = 24, $\frac{2}{3} = \frac{16}{24}$, 16 – 4 = 12

Q23. – (minus)
20 x (10 – 5) = 100
20 x 5 = 100

Q24. 2457

Q25 $\frac{2}{9}$ ➔ $\frac{8}{9} \div 4 = \frac{8}{9} \times \frac{1}{4} = \frac{2}{9}$

Q26. $\frac{4}{15}$
$\frac{1}{5} = \frac{3}{15}$
$\frac{1}{3} = \frac{5}{15}$
$\frac{3}{15} + \frac{5}{15} = \frac{8}{15}$
$\frac{8}{15} \times \frac{1}{2} = \frac{4}{15}$

Q27. 1.54m
12.6m – 1.82m = 10.78m
10.78m ÷ 7 = 1.54m

Q28. $\frac{5}{14}$
5+6+3=14
Joyce : total no. of pens, 5:14

Q29. 6:7
Jack : Dave
 2 : 5
$196 ÷ 7 = $28
$28 x 2 + $64 = $120 (Jack in the end)
$28 x 5 = $140
Jack : Dave
120 : 140
12   : 14
 6 : 7

Q30. 32
64 ÷ 4 = 16
16 ÷ 2 = 8 (gaps)
8 + 1 = 9 (potted plant of each side)
9 x 4 = 36
36 – 4 = 32 (minus potted plant at four sides)

Q1. $2
1 book = 3pens
6+3=9
$18÷9=$2

Q2. 108
$240÷13=18R6
18x6=108 (no. of cupcakes)

Q3. 6:5
¾ of Aini = ⅝ of Bobby
$\frac{15}{20}$ of Aini = $\frac{15}{24}$ of Baby
Bobby : Aini
24 : 20
12 : 10
6 : 5

Q4. 40cm²
14 x 20 x ½ = 140 (Area of Triangle ABC)
140 ÷ 7 x 2 = 40   (Area of Triangle DEC)

Q5. $16
5hr – 1hr=4hr
4 hours ➔ 8 half hour
8 x $1 = 48
$8 + $1 +$7 = $16

Q6. 36
96 ÷ 2 = 48
48 ÷ 6 = 8 (each tray)
48 ÷ 4 = 12 (each container)
8 x 3 = 24 (3 trays)
24 + 12 = 36 (3 rays & 1 container)

Q7. $78
Richard : Mel
 1   : 7

Difference   Total
6 units   8 units

Each just have 4 units to be equal
$104÷4=$26
7 units – 4units = 3 units
$26 x 3 = $78

Q8a. ⅛ ➜ $\frac{3}{24}$ = ⅛

Q8b. $360
$105÷7 =$15
$15 x 24 = $360
$\frac{5}{12}$ x $\frac{7}{10}$ = $\frac{7}{24}$

Q9. 69
12+30 + 12 = 54
2 units ➜ 54
1 unit ➜ 27
27 + 12+30 =69

Q10a. 640m (1200 + 120) x 2 = 640

Q10b. 19,200m²
200 x 120 = 24,000
60 x 40 =2400
40 x 60 = 2400
24,000 – 2400 – 2400 = 19,200

Q11. 42
$2+43=$5 1 packet of chocolate powder)
$2 x 2 = $4
$4 + $5 = $9
$189 ÷ $9 = 21 (sets)
21 x 2 = 42 (packets of flour)

Q12. $860
2 units ➔600
1 unit ➔600÷2=300
5 units➔ 300x 5 = 1500 (No. of apples)
1500 ÷ 3 =500
500 x $1 = $500 (money collected from apples)
3 units➔ 300 x 3 = 900
900 ÷ 5 = 180
180 x $2 = $360 (more collected from oranges)
$360 + $500 = $860 (altogether)

Q13. 154
3 units 123
1 unit 41
2 units 82 (Belinda in the end)
159 – 82 = 77 (Each girl gave away)
77 x 2 = 154 (gave away altogether)

Q14. 2700cm²
13 + 3 = 16
16 parts➔ 2400cm²
1 part ➔ 150cm²
13 + 2 + 3= 18 parts
150 x 18 = 2700

Q15a. 31➔ 23 +8=31

Q15b. 79➔ 10 – 1 = 9, 9 x 8 = 72, 72 + 7 = 79

Q15c. 99➔ 791 – 7 =784, 784 ÷ 8 = 98, 98 + 1 = 99

Q16. $188
27n + 15e = $4320
10n + 15e = $2195
17n = $2125
1n = $125
2n = $250
3e = $189
1e = $63
$63 + $125= $188

Q17a. $330
145 +90 +145 = 380
4 units➔ 4380
1 unit➔ $95
$95 + 90 = $185
$185 + 4145 = $330

Q17b. $240

$95 +$145 = $240

Q18. Box A: 78.   Box B : 24   Box C : 60

$162 \div 3 = 54$

$54 + 24 = 78$ (C)

$54 - 24 = 30$ (A)

$54 \div 3 = 18$

$78 - 18 = 60$ (C)

$54 + 18 = 72$ (B)

$72 \div 3 = 24$ (B)

$72 - 24 = 48$

$30 + 48 = 78$ (A)

THE END

5

NANYANG PRIMARY SCHOOL

FIRST SEMESTRAL EXAMINATION
2015

PRIMARY 5

MATHEMATICS

PAPER 1

DURATION: 50 MINUTES

Booklet A	/ 20
Booklet B	/ 20

Paper 1 Total:
/ 40

Name: _____

Class: Primary 5 (   )

Date: 11 May 2015

Any query on marks awarded should be raised by **21 May 2015**. We seek your understanding in this matter as any delay in the confirmation of marks will lead to delays in the generation of results.

Parent's Signature: _____

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 Which one of the following is seven million, four hundred and sixty-seven thousand and twenty-two?

(1) 7 000 489

(2) 7 067 422

(3) 7 467 022

(4) 7 467 220

2 Find the value of $12 + (85 - 25) \div 6 \times 10$.

(1) 13

(2) 112

(3) 120

(4) 220

3   Which of these pairs of fractions are equivalent fractions?

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

2) $\frac{1}{3}$ and $\frac{2}{6}$

3) $\frac{1}{4}$ and $\frac{5}{8}$

4) $\frac{4}{5}$ and $\frac{2}{10}$

4   Arrange the following fractions in descending order.

$$\frac{2}{3}, \frac{5}{6}, \frac{3}{10}$$

(1) $\frac{3}{10}, \frac{2}{3}, \frac{5}{6}$

(2) $\frac{3}{10}, \frac{5}{6}, \frac{2}{3}$

(3) $\frac{5}{6}, \frac{3}{10}, \frac{2}{3}$

(4) $\frac{5}{6}, \frac{2}{3}, \frac{3}{10}$

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

    (1)   0.125

    (2)   0.8

    (3)   1.25

    (4)   12.5

6   Find the value of $\frac{7}{12} - \frac{2}{5}$

    (1) $\frac{11}{60}$

    (2) $\frac{5}{12}$

    (3) $\frac{5}{7}$

    (4) $\frac{59}{60}$

7   Find the product of 2 and $\frac{9}{7}$.

    (1) $\frac{9}{14}$

    (2) $1\frac{2}{7}$

    (3) $2\frac{4}{7}$

    (4) $3\frac{2}{7}$

8 Express 103 thousandths as a decimal.

(1)　0.103

(2)　1.03

(3)　1.030

(4)　10.3

9 Express 0.04 as a fraction in its simplest form.

(1)　$\dfrac{1}{20}$

(2)　$\dfrac{2}{5}$

(3)　$\dfrac{1}{25}$

(4)　$\dfrac{1}{250}$

10 What is the base of triangle ABC given that its height is AE?
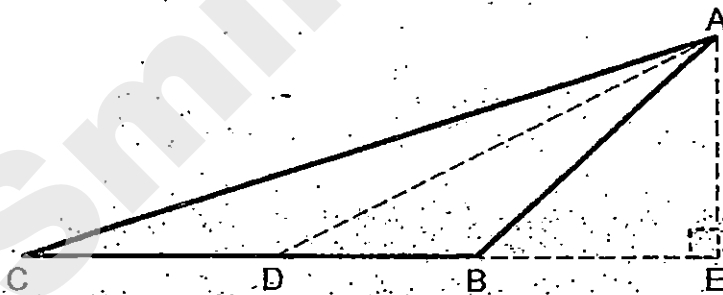
(1)　BE

(2)　CB

(3)　CE

(4)　DB

11 Which one of the following gives the greatest value?

    (1) 450×10

    (2) 400×100

    (3) $500\,000 \div 10$

    (4) $550\,000 \div 100$

12 Mrs Osman had $\frac{1}{2}$ kg of coffee powder. She gave $\frac{1}{4}$ of it to her neighbour. What was the mass of the coffee powder that she gave to her neighbour?

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

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

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

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

13 The perimeter of a square tile is $\dfrac{8}{9}$ m. What is the length of each side of the tile?

(1) $\dfrac{2}{9}$ m

(2) $\dfrac{9}{13}$ m

(3) $\dfrac{32}{36}$ m

(4) $\dfrac{32}{9}$ m

14 The length of a string is 8.25 m. The length of a ribbon is 0.7 m shorter than the length of the string. Find the length of the ribbon.

(1) 7.45 m

(2) 7.55 m

(3) 8.18 m

(4) 8.95 m

15 A total of 44 pupils participated in a team challenge. The teacher gave each girl 3 candies and each boy 1 candy. The teacher gave out a total of 96 candies to all the pupils. How many girls participated in the team challenge?

(1) 12

(2) 18

(3) 20

(4) 26

Name: _____ (   )   Class: Pr 5 (   )

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 3 469 902 to the nearest thousand.

Ans: _____

---

17   Find the value of 348 × 76.

Ans: _____

---

18   Find the value of 487 000 ÷ 10 ÷ 100.

Ans: _____

---

19 Find the value of $48 - 36 \div 3 \times 4 + 9$.

Ans: _____

---

20 Jayden painted $\frac{2}{3}$ of a wall white. He then painted $\frac{1}{6}$ of the remaining part of the wall blue. What fraction of the wall is painted blue?

_____

---

21 Find the product of $\frac{2}{3}$ and $\frac{5}{6}$.

Give your answer as a fraction in its simplest form.

Ans: _____

22 Find the value of $\dfrac{9}{10} \div 3$.

Give your answer as a fraction in its simplest form.

Ans: _____

23 Find the value of $24.08 \div 4$.

Give your answer as a decimal.

Ans: _____

24 What is 425 ml in litres?

Ans: _____ l

25 Round off 8.285 to 2 decimal places.

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.

<div align="right">(10 marks)</div>

---

26 Find the difference between 654 876 and 279 745 by first rounding off the numbers to the nearest hundred.

Ans: _____

---

27 $\boxed{\ ?\ }$ × 134.8 = 67.4 × 200 .

What is the missing number in the box?

Ans: _____

---

28 Four identical tins of milk powder cost a total of $110.40. Bala had $15.20 left after paying for 8 such tins. How much money did he have at first?

Ans: $_____

29   In the figure below, ABCD is a square of length 8 cm. Line DC is parallel to line GH. Point E and point F lie on the line GH. What is the total area of the shaded parts?
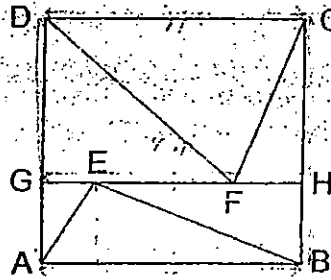
Ans: _____ cm²

30   How many times does the digit 2 appear in the numbers from 1 to 30?

Ans: _____

END OF PAPER

NANYANG PRIMARY SCHOOL

FIRST SEMESTRAL EXAMINATION 2015

PRIMARY 5

MATHEMATICS

PAPER 2

DURATION: 1 HOUR 40 MINUTES

Paper 2 Total	**/ 60**

GRAND TOTAL	**/ 100**

Name: _____ (   )

Class: Primary 5 (   )

Date: 11 May 2015

Any query on marks awarded should be raised by **21 May 2015**. We seek your understanding in this matter as any delay in the confirmation of marks will lead to delays in the generation of results.

Parent's Signature: _____

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PAPER 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   Insert a pair of brackets to make the number sentence below true.

$$12 \ + \ 36 \ \div \ 3 \ + \ 6 \ \times \ 2 \ = \ 20$$

---

2   Sally packed a total of 2868 pens into Box A, Box B and Box C at first. She then moved 257 pens from Box A to Box B.   As a result, there was an equal number of pens in each box.   How many pens did Sally pack in Box A at first?

Ans: _____

---

3   Peter jogged a distance of $45\frac{3}{8}$ km.   Desmond jogged $10\frac{1}{4}$ km less than Peter.   How far did they jog altogether?   Give your answer as a mixed number in its simplest form.

Ans: _____ km

1

4   There was some lime juice in a jug at first.   Gopal poured out $2\frac{1}{6}$ l of lime juice from the jug.   After that, Amy poured $1\frac{3}{4}$ l of lime juice into the jug.   There were $5\frac{1}{12}$ l of lime juice left in the jug.   How much lime juice was in the jug at first?   Give your answer as a mixed number in its simplest form.

Ans: _____ l

5   Jenny had to run a distance of 42.195 km.   After she had run 19 920 m, how many more kilometres had she left to run?-   Give your answer correct to 2 decimal places.

Ans: _____ km

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   Mrs Zeng had $12\frac{5}{9}$ kg of rice.   Mrs Wang had 3 times as much rice as Mrs Zeng.   How many kilograms of rice did they have altogether?

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

Ans: _____ [3]

---

7   A tap fills 14 identical containers in 7 hours.   At this rate, how many minutes does the tap take to fill $\frac{4}{5}$ of such a container?

Ans: _____ [3]

3

8   In the figure below, BCDE is a rectangle and ABC is a triangle. The length of BC is 10 cm and the length of DC is 6 cm.
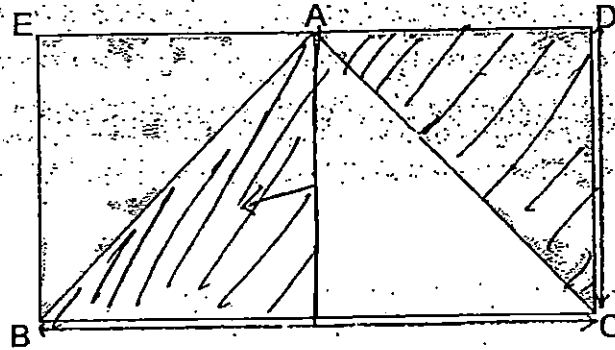
(a) Name the height of triangle ABC given that its base is BC.

(b) Find the total area of the shaded parts.

Ans: (a) _____ [1]

         (b) _____ [2]

4

9 A concert ticket was priced at $17. For every 8 tickets purchased, 3 additional tickets were given free. Find the total cost of tickets for a group of 213 people.

Ans: _____ [3]

10 Raju had some money. On Monday, he spent $\frac{1}{3}$ of his money on a pair of jeans and $43.65 on a jacket. On Tuesday he received $40 from his mother. He then spent $135 to buy a watch and had $49.75 left in the end. How much did the pair of jeans cost?

Ans: _____ [3]

11 Kumar had a total of 1030 red, white and yellow roses at first. After he sold 56 red roses, the number of yellow roses was 4 times the number of red roses left unsold. After he sold 44 white roses, the number of yellow roses was 30 fewer than the number of white roses left unsold. Kumar did not sell any yellow roses. How many yellow roses did he have?

Ans: _____ [4]

12 Mr Chew had a total of 350 fish balls and fish cakes. After selling $\frac{1}{7}$ of the fish cakes and 80 fish balls, he had $\frac{1}{3}$ as many fish balls as fish cakes left. How many fish balls did he have at first?

Ans: _____ [4]

13 Bob bought 2.4 kg of grapes, 5 kg of lychees and 15 apples. He paid $41.90 for the fruits altogether. Find the cost of the 5 kg of lychees.
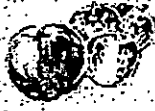
3 apples
for $1

200 g of grapes
for $1.20

Ans: _____ [4]

14 In the figure below, GAB, GCD and GEF are triangles. Points A, B, C, H, D, E and F lie on a straight line. Triangle GAB and triangle GEF have the same area. The length of CD is 6 cm. The length of AB is $\frac{2}{3}$ the length of CD. The length of GH is 8 cm. Find the total area of triangles GAB, GCD and GEF.
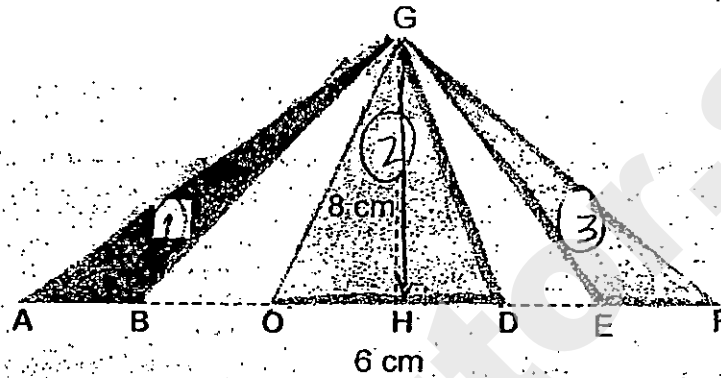
Ans: _____ [4]

15 At first, Samantha had 54 cards more than Cory. After Cory gave 23 cards to Samantha, Samantha had thrice as many cards as Cory. How many cards did Samantha have at first?

Ans: _____ [4]

16   The total mass of 20 identical textbooks and 18 identical dictionaries is
      26.68 kg.   Each dictionary is 4 times as heavy as a textbook.   What is
      the difference in mass between a dictionary and a textbook?   Give your
      answer in grams.

                                            Ans: _____ [5]

17   Sally had some money at first. She gave $\frac{1}{5}$ of her money to her father. She spent $\frac{5}{8}$ of her remaining money on food and transport. The amount of money she spent on transport was $\frac{1}{4}$ the amount of money she spent on food. She then had $1650 left.

(a)   How much money did Sally have at first?

(b)   How much more money did she spend on food than on transport?

Ans: (a) _____ [3]

         (b) _____ [2]

12

18 The cost of each stapler is $0.20 more than the cost of each pen. Each pen costs twice as much as each pencil. The total cost of 5 such staplers, 4 such pens and 2 such pencils is $1.80 more than the total cost of 4 such staplers, 2 such pens and 4 such pencils. Find the cost of each pen.

Ans: _____. [5]

END OF PAPER

EXAM PAPER 2015
LEVEL   : PRIMARY 5
SCHOOL : NANYANG PRIMARY SCHOOL
SUBJECT : MATH
TERM   : SA1

Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q9	Q 10
3	2	2	4	3	1	3	1	3	2
Q 11	Q 12	Q 13	Q 14	Q 15					
3	1	1	2	4					

Q16. 3 470 000

Q17. 26 448

Q18. 487

Q19. 9 → 48 − (36 ÷ 3) x 4 + 9, 48 − (12 x 4) + 9 , 48 − 48+9 = 9

Q20. $\frac{1}{18}$ → ⅓ x ⅙ = $\frac{1}{18}$

Q21. $\frac{5}{9}$ → $\frac{2}{3}$ x $\frac{5}{6}$ = $\frac{10}{18}$ = $\frac{5}{9}$

Q22. $\frac{3}{10}$ → $\frac{9}{10}$ ÷ 3 = $\frac{3}{10}$

Q23. 6.02

Q24. 0.425 → 425ml = 0.425litre

Q25. 8.29 → 8.285 ≈ 8.29

Q26. 375 200 → 654 876 ≈ 654 900, 279 745 ≈ 279 700, 654 900 − 279 700 = 375 200.

Q27. 100 → 67.4 x 2 = 134.8, 134.8 x 100 = 13480, 100 x 134.8 = 13480.

Q28. $236 → $110.40 x 2 = $220.80, $220.80 + 15.20 = $236.

Q29. 32cm² → Area of the square → 8cm x 8cm = 64cm², ½ x 8cm x 8cm = 32cm²

Q30. 13.

PAPER 2

Q1. 20 → 12 + 36 ÷ (3 +6) x 2 = 20

Q2. 1213 → 2868 ÷ 3 = 956 , 956 + 257 = 1213

Q3. $80\frac{1}{2}$ km → Desmond → $45\frac{3}{8}$ − $10\frac{1}{4}$ = $35\frac{1}{8}$, Peter + Desmond → $35\frac{1}{8}$ + $45\frac{3}{8}$ = $80\frac{1}{2}$.

Q4. $5\frac{1}{2}$ litre → $5\frac{1}{12}$ − $1\frac{3}{4}$ + $2\frac{1}{6}$ = $\frac{61}{12}$ − $\frac{7}{4}$ x 3 + $\frac{13}{6}$ x 2 = $\frac{61}{12}$ − $\frac{21}{12}$ + $\frac{26}{12}$ = $\frac{66}{12}$ = $5\frac{6}{12}$ = $5\frac{1}{2}$

Q5. 22.28 → 42.195km − 19.920km = 22.275km ≈ 22.28km

Q6. $50\frac{2}{9}$ kg → Mrs Zeng → $12\frac{5}{9}$, mrs Wang → $12\frac{5}{9}$ x 3 = $37\frac{2}{3}$, $12\frac{5}{9}$ + $37\frac{2}{3}$ = $50\frac{2}{9}$ kg

Q7. 24min → 7 hours = 420mins, 14 containers. (÷ 14) →420min (÷14) = 1 container → 30min, $\frac{1}{5}$ of container → 6 min , ⅘ of container → 24mins.

Q8a. CD → SEE PICTURE
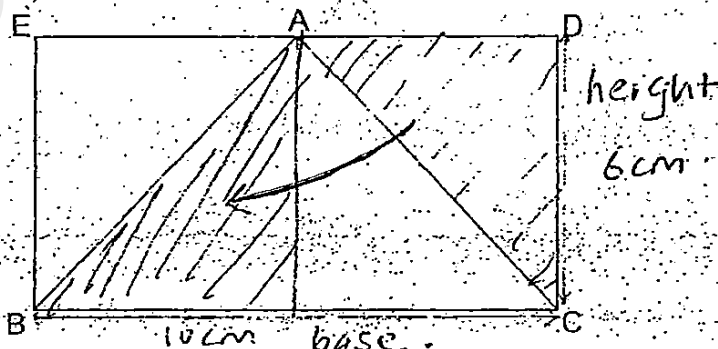
Q8b. 30cm² → 10cm x 6cm =60cm², 60cm² ÷ 2 = 30cm²

Q9. $2652 → 1 CT → $17, 213 − 209 = 4, 152 x $17 = $2584, 4 x $17 =$68, $2584 + 68 = $2652

Q10. $94.20 → $49.75 − $40 = $9.75, $9.75 + 43.65 + 135 = $188.40, $188.40 ÷ 2 = $94.20

Q11. 400 → 1030−56 = 974, 974 −44 = 930, 930 − 30 =900, 900÷9 = 100, 100 x 4 = 400

Q12. 140 → 350 −80 = 270, 270÷ 9 = 30 ; 30 x2 = 60, 60 + 80 = 140

Q13. $22.50 → 2.4kg → 2400g, 2400g ÷ 200g = 12, 12 x $1.20 = $14.40, 3 apples → $1, 15 apples → $5,
$14.40 + 5 = $19.40, $41.90 − $19.40 = $22.50.

Q14. 56cm² → SEE PICTURE
AB → 6cm ÷ 3 = 3cm, 2cm x 2 = 4cm
Area of 1 → ½ x 4cm x 8cm = 16cm²,
Area of 2 → ½ x 6 cm x 8cm = 24cm²,
Area of 3 → 16cm² 16cm² + 24cm² + 16cm² = 56cm²
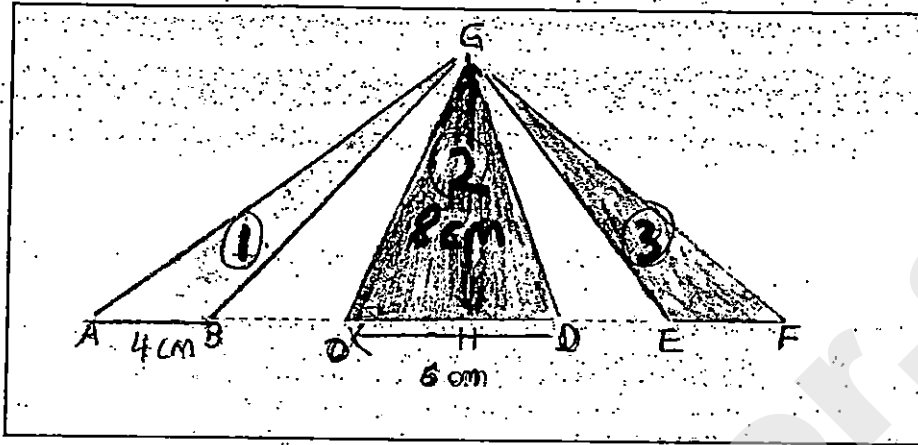
Q15. 127 → 23 + 54 = 23 = 100, 100 ÷ 2 = 50, 50 + 23 + 54 = 127.
Q16. 870g → 18 x 4 = 72, 72+20 = 92, 26.68kg ÷ 92 = 0.29kg, 4−1 = 3, 0.29kg x 3 = 0.87kg = 870g
Q17a. $5500 → $1650 ÷ 3 = $550, $550 x 8 = $4400, $4400 ÷ 4 = $1100, $1100 x 5 = $5500
Q17b. $1650 → 4 − 1 = 3, $550 x 3 = $1650.
Q18. $0.80 → $1.80 − $0.20 = $1.6, $1.60 ÷ 4 = $0.40, $0.40 x 2 = $0.80

THE END

RAFFLES GIRLS' PRIMARY SCHOOL

SEMESTRAL ASSESSMENT 1

MATHEMATICS (PAPER 1)

PRIMARY 5

Name: _____ (   )

Form Class: P5 _____   Math Teacher: _____

Date: 11 May 2015   Duration: 50 min

Your Score **(Out of 100 marks)**	
Your Score **(Out of 40 marks)**	
Parent's Signature	

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.

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). Shade your answer (1, 2, 3 or 4) on the OAS provided. All diagrams are not drawn to scale.

---

1. In 320 179, the digit 2 is in the _____ place.

    (1)   hundreds

    (2)   thousands

    (3)   ten thousands

    (4)   hundred thousands

2. $1977 \quad 46 = 1977 \times 12 + \underline{\quad\quad} \times 1977$

    (1)   28

    (2)   34

    (3)   46

    (4)   58

3. What is the volume of the cuboid shown below?
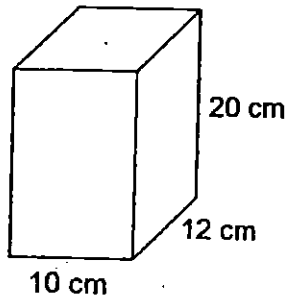
    (1)   140 cm³

    (2)   240 cm³

    (3)   1 400 cm³

    (4)   2 400 cm³

4. What is the missing number in the box below?

$$\frac{\square}{12} = \frac{6}{18}$$

(1) 8

(2) 2

(3) 3

(4) 4

5. Express $\dfrac{47}{9}$ as a mixed number.

(1) $2\dfrac{5}{9}$

(2) $4\dfrac{7}{9}$

(3) $5\dfrac{2}{9}$

(4) $9\dfrac{2}{5}$

6. Which of the following shapes cannot be tessellated?

(1)

(2)

(3)

(4)
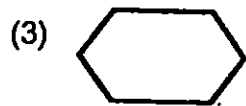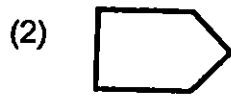
7. In 279.534, what does the digit 5 stand for?

(1)   5 tens

(2)   5 tenths

(3)   5 hundreds

(4)   5 hundredths

8. Express 2.25 as a fraction.

(1) $2\dfrac{2}{25}$

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

(3) $2\dfrac{1}{4}$

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

9. Which of the following ratio is equivalent to 18 : 12?

    (1)   2 : 3

    (2)   4 : 6

    (3)   15 : 10

    (4)   21 : 10

10. The mass of a bag of flour when rounded off to the nearest kilogram is 3 kg.

Which of the following could be the actual mass of the bag of flour?

    (1)   2 kg 109 g

    (2)   2 kg 450 g

    (3)   3 kg 200 g

    (4)   3 kg 800 g

11. What is the total shaded area in the figure below?

1 cm

1 cm
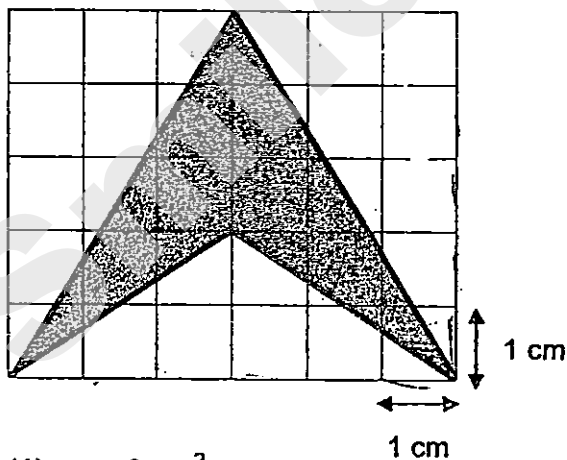
    (1)   6 cm^2

    (2)   9 cm^2

    (3)   10 cm^2

    (4)   15 cm^2

12. Which one of the following has a line of symmetry?

ILL   MON   TAT   WOO

(1)   ILL

(2)   MON

(3)   TAT

(4)   WOO

13. What is the sum of all the common factors of 48 and 60?

(1)   12

(2)   16

(3)   28

(4)   108

14. The solid below is made up of some identical 1-cm cubes. What is the volume of the solid?
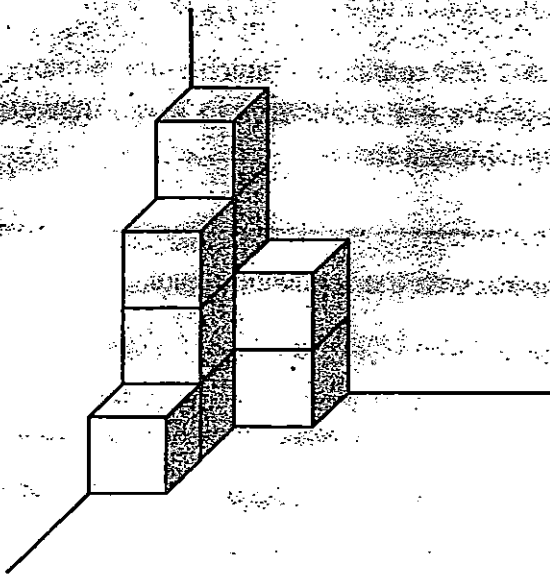
(1)   8 cm³

(2)   9 cm³

(3)   10 cm³

(4)   11 cm³

15. $\frac{3}{7}$ of ♣ is 252. What is the value of ♣ ?

(1)   36

(2)   84

(3)   108

(4)   588

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. All diagrams are not drawn to scale. Answers in fractions or ratio must be expressed in the simplest form.

---

16. Form the smallest 5-digit **odd** number with the following digits.

    Do not start with 0.

    8, 2, 0, 1, 5

    Ans: _____

17. In 682.759, the digit in the hundredths place is _____.

    Ans: _____

18. The volume of the cube shown below is 216 cm³.

    What is the length of the cube?

    Ans:_____cm

19. Shade 2 squares to make the figure below symmetrical.

Line of Symmetry
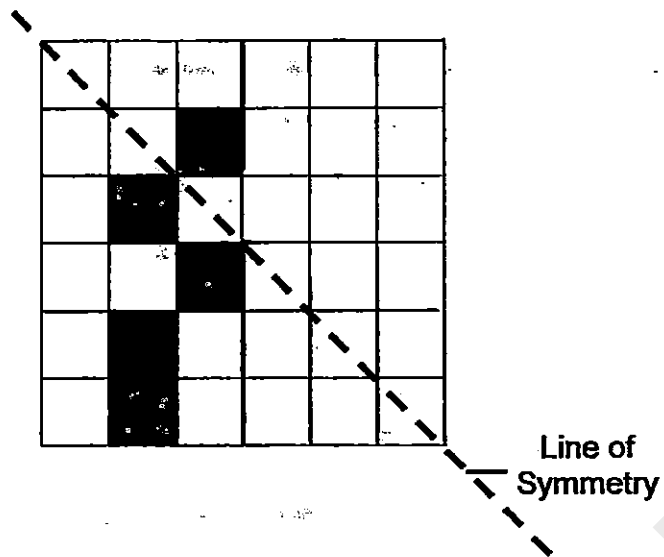
20 The pattern in the box below shows a part of a tessellation.
Extend the tessellation by drawing 2 more unit shapes within the box.
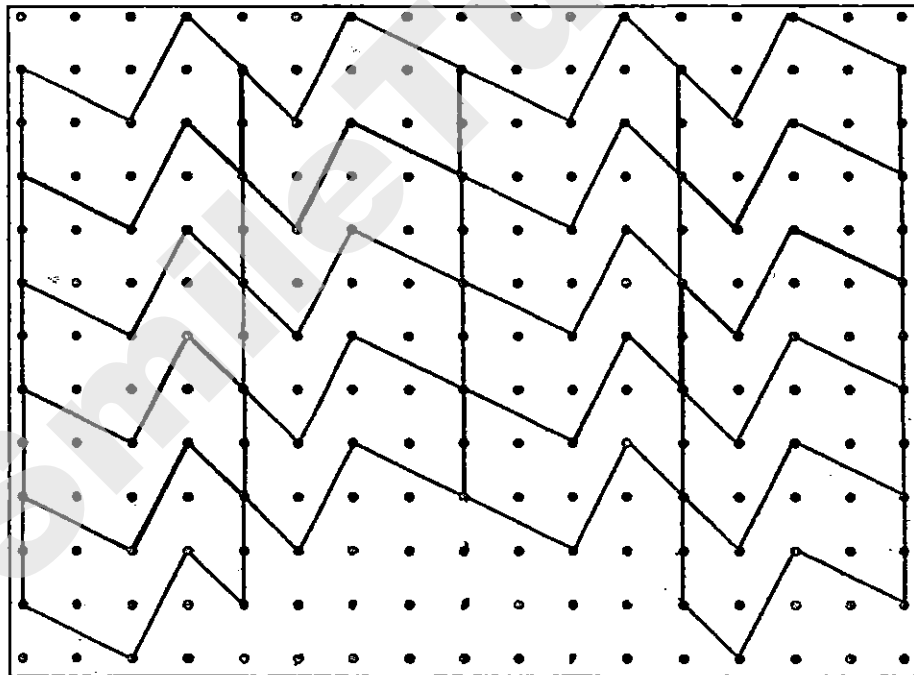
21. Mrs Tan had $\frac{1}{5}$ m of string. She used $\frac{1}{7}$ m of the string to make wrap a gift.

What was the length of string left?

Ans: _____

22. Express $5\frac{3}{25}$ as a decimal.

Ans: _____

23. Find the value of $37.248 \div 6$.

Ans: _____

24. Round off 45.299 to the nearest whole number.

Ans: _____

25. Haris counts the marbles in a bag and records the number of marbles in the table below.

Colour of marbles	Number of marbles
Red	2
Green	8

What is the ratio of the total number of marbles to the number of green marbles?

Ans: _____

26. Ahmad had 2 boxes of pens. Each box contained 24 pens.

He shared his pens equally with his 2 brothers.

How many pens did each boy receive?

Ans: _____

27. Fill in the blanks with the correct symbols, $+$, $-$, $\times$, $\div$.
Each symbol can only be used once.

$$12 \underline{\hspace{1cm}} 12 - 122 \underline{\hspace{1cm}} 12 = 10$$

28. The figure below is made up of 1 big cube and 1 small cube. The ratio of the length of the big cube to the length of the small cube is 2 : 1. Calculate the volume of the figure.

12 cm
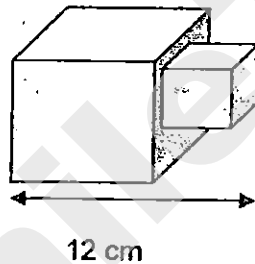
Ans: _____ cm^3

29. Container A below contains water up to $\frac{2}{5}$ of its height. Its height is 30 cm.

Find the volume of water in container A.
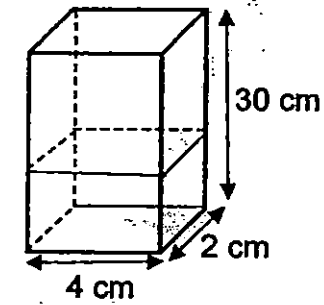
Container A

Ans:_____ cm³

30. A flag is placed at the start of a 5-km charity run.

Thereafter, a flag is placed at every 200 m along the run.

How many flags are used altogether?

Ans: _____

RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 1
MATHEMATICS (PAPER 2)
PRIMARY 5

Name: _____ (   )

Form class: P5 _____   Math Teacher: _____

Date: 11 May 2015   Duration: 1 h 40 min

Your Score (Out of 60 marks)	

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.

2. Follow all instructions carefully.

3. Answer **ALL** questions and show all working clearly.

4. The use of calculator is allowed for this paper.

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.   Fatimah had 198 white marbles and 112 black marbles.

   She gave away $\frac{1}{3}$ of the white marbles and $\frac{1}{7}$ of the black marbles.

   How many marbles were given away?

   Ans: _____ . [2]

2.   A machine is able to manufacture 3 toys in 21 minutes.
   How long will it take for the machine to manufacture 15 toys?

   Ans: _____ min [2]

3.   Arrange the fractions below from the largest to the smallest.

   $$\frac{2}{9} \quad , \quad \frac{3}{5} \quad , \quad \frac{7}{9} \quad , \quad \frac{8}{5}$$

   Ans: _____ [2]

4. John has two identical jugs, X and Y, filled with some orange juice.
    The ratio of the amount of orange juice in Jug X and Y is 5: 7.
    The amount of orange juice in Jug Y is 434 ml.
    how much orange juice must John pour into Jug X so that Jug X and Y have an equal amount of orange juice?

    Ans: _____ml [2]

5. Find the area of the triangle shown below.
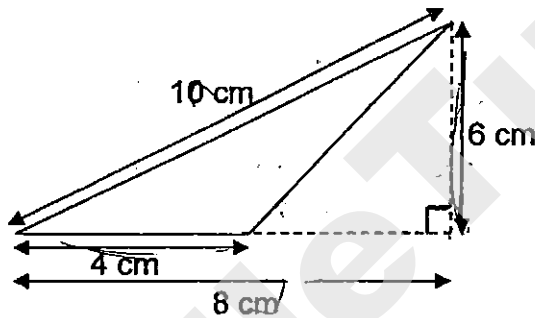
    Ans: _____ cm² [2]

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.   Mrs Tan had some muffins and cookies in the ratio of 1 : 3.
       After she baked 100 more muffins, the ratio of the number of muffins to the
       number of cookies became 3 : 5.
       What was the total number of muffins and cookies that Mrs Tan had at first?

Ans: _____ [3]

7. Tank A is $\frac{2}{3}$ filled with water. How many 15-cm cubes must be added to Tank A to fill it to its brim?

45 cm

45 cm

60 cm

Tank A
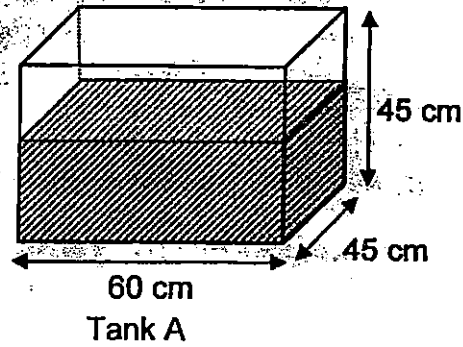
Ans: _____ [3]

8. The figure below is made of 4 identical rectangles.
The length of the figure is 28 cm and its breadth is 15 cm.
Find the total area of the shaded parts.
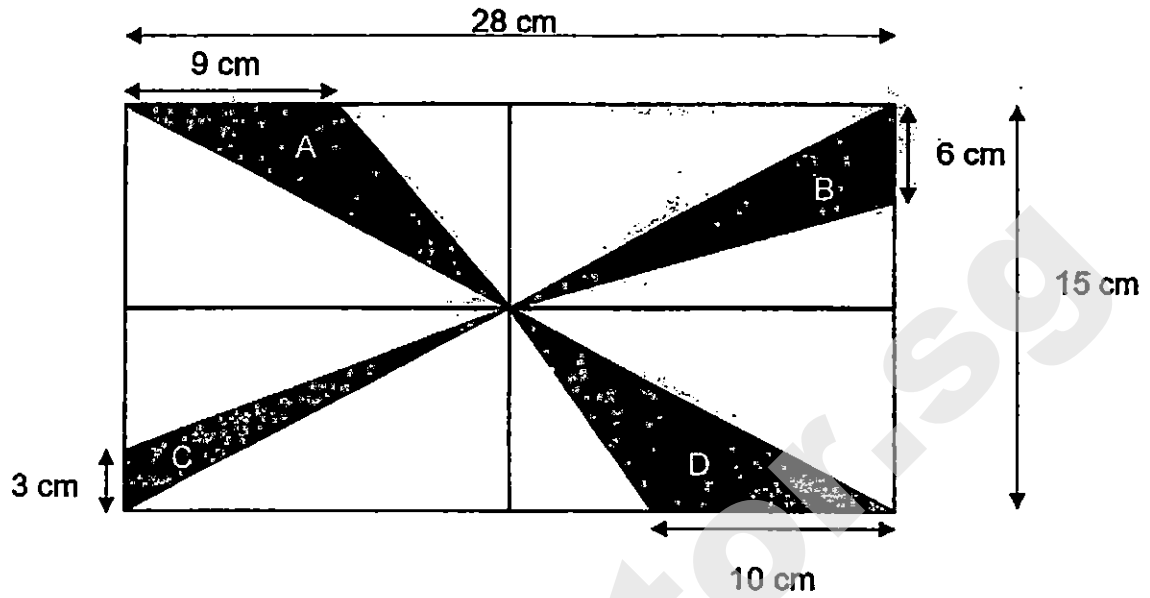
Ans: _____ [3]

9.   Janice could buy 65 identical books with all her money. If the price of each book was increased by $7, she would have to buy 35 fewer books.

How much money did Janice have?

Ans: _____ [4]

10. The cost of 17 erasers and 9 pens is $10.85.
The cost of 4 erasers and 8 pens is $5.20.

(a) What is the cost of 36 erasers and 72 pens?
(b) How many erasers can be bought with $40?

Ans: (a) _____ [2]

(b) _____ [2]

11. X is a rectangular tank with a base area of 200 cm². The height of the tank is 30 cm.
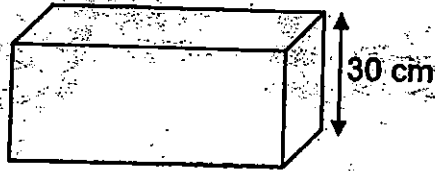
Tank X

Water is poured into the tank until it fills up $\frac{3}{5}$ of the tank.

(a) How much water is in the tank now?

(b) Then, all the water from the tank is poured into cups of 300 ml without spilling.

How many cups are filled to the brim?

Ans: (a) _____ . [2]

(b) _____ [2]

12. I am thinking of a fraction.

The difference between the numerator and the denominator is 23.

When 5 is added to the denominator, the fraction becomes $\dfrac{1}{5}$

What is the fraction?

Ans: _____ [3]

13. The figure below is made of a triangle and a rectangle.

12 cm

9 cm
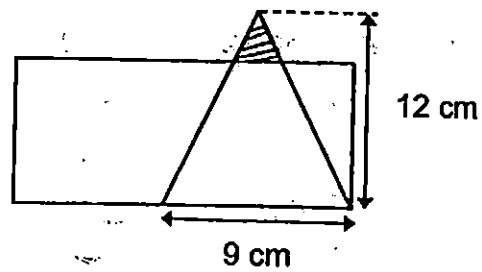
$\frac{1}{6}$ of the triangle is shaded. The shaded area of the triangle is $\frac{1}{12}$ of the area of the rectangle.

Find the area of the rectangle.

Ans: _____ [3]

14. Tables and chairs at a dinner party can be arranged in the patterns below.

Pattern 1

Pattern 2

Pattern 3

Legend

○ - chair

▭ - table
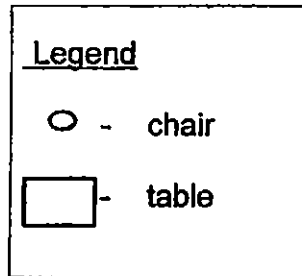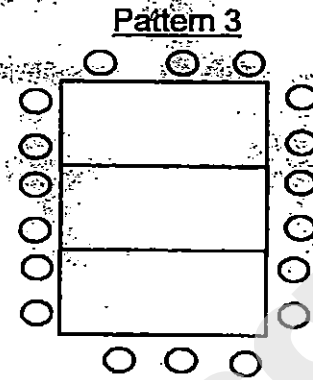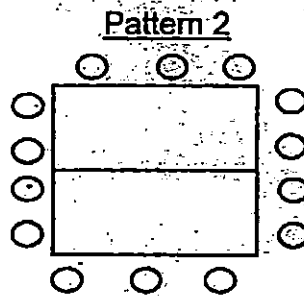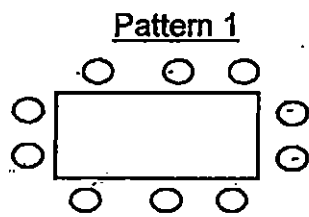
a) How many chairs will there be in Pattern 4?

b) Which pattern will have 102 chairs?

Ans : (a) _____ [2]

(b)_____ [2]

15. Mrs Bong bought some apples and oranges. The cost of an orange was $\frac{2}{3}$ the cost of an apple. She paid $9.60 for 8 apples and 12 oranges. How much did an apple cost?

Ans : _____ [4]

16.   Two siblings, Tom and Jerry, had a total of 590 game cards at first.

After Jerry bought 35 games cards and gave Tom 20 game cards, Jerry had 4 times as many game cards as Tom.

How many game cards did Jerry have at first?

Ans : _____ [5]

17 Anna collected sea shells and kept them in 3 boxes, A, B and C.

Box A contained $\frac{1}{4}$ as many sea shells as the total number of sea shells in boxes B and C.

Box B contained $\frac{2}{5}$ as many sea shells as the total number of sea shells in boxes A and C.

(a) Find the ratio of the number of seashells in box A to the number of seashells in box C.

(b) There are 96 more seashells in box C than box B.

How many seashells did Anna collect altogether?

Ans : a) _____ [2]

b) _____ [3]

18. This year, Ming Ming's age is $\frac{4}{5}$ of her brother's. Her brother will be 41 years old in 6 years' time.

How old was Ming Ming when she was 1 year younger than $\frac{3}{4}$ of her brother's age?

Ans : _____ [5]

End of Paper

Setters: Ms Tan Lizhen, Ms Melissa Yeo, Mdm Wirda Sukor

EXAM PAPER 2013
LEVEL : PRIMARY 5
SCHOOL : RAFFLES GIRLS' PRIMARY SCHOOL
SUBJECT : MATHEMATICS
TERM : SA1

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

Q16. 10 285   Q17. 5   Q18. 6cm ➜ Vol= LXBXH , 216 = 6x6x6

Q19. No model answer   Q20. No model answer

Q21. $\frac{2}{25}$ ➜ $\frac{1}{5} - \frac{1}{7} = \frac{7}{35} - \frac{5}{35} = \frac{2}{35}$

Q22. 5.12   Q23. 6.208   Q24. 45

Q25. 5:4 ➜Total :Green , 10:8, 5:4

Q26. 16 ➜24 x 2 = 48, 48÷3=16

Q27. X , − ➜ 12 x 12, 144 − 122

Q28. 576cm³
2u+1u=3u 12
1u 12÷3=4
2u 4 x 2 = 8
small cube 4 x 4 x 4 =64
big cube 8 x 8 x 8 = 512
64 +512= 576

Q29. 96cm³
Height of water ⅖ x 30 = 12
Volume of water 4 x2x12=96

Q30. 25➜ 5km=5000m, No. of gaps 5000÷200=25, 25 + 1 = 26

Q1. 82 ➜ 198 ÷3=66, 112÷ 7 = 16, 66 + 16 = 82

Q2. 105min➜ 15÷3 =5, 21 x 5 =100   Q3. $\frac{8}{5}, \frac{7}{9}, \frac{3}{5}, \frac{2}{9}$

Q4. 124ml➜ 434 ÷7 = 62 (1 unit), 62 x 2 = 124   Q5. 12cm² ½ x 4 x 6 = 12

Q6. 500 muffins & cookies➜ 9 − 5 = 4, 100÷4=25, 5+15=20, 20 x 25 = 500

Q7. 12 ➜15 x 15 x 15 = 3375, 45÷3=15, 45 x 60 x 15=40500, 40500÷3375=12

$\frac{1}{2}$ x 18 x 7.5 = 67.5, ½x19x7.5=71.25, ½x9x14=63, ½x12x14=84,
84+63+71.25+67.5=285.75, 28 x 15 = 420, 420 – 285.75=134.25

Q9. $390 ➔ 65 – 35=30, $7 x 30 =$210, $210÷35=46, $6x65 =$390

Q10a. $46.80 ➔ 4÷36=9, $5.20X9 =$46.80

Q10b. 100 erasers ➔17e +9 pens = $10.85, 4e + 8 pens = $5.20,
36e+72pens ➔$46.80, 136e+72pens➔ $86.80, 100e=$40

Q11a. 3600cm³➔ 30÷5=6, 6 x 3 = 18, 18 x 200 = 3600   Q11b. 12 cups 3600÷300 = 12

Q12. $\frac{7}{30}$ ➔ 23+5 =28 (4u) 28÷4=7, 7 + 23 = 30➔ $\frac{7}{30}$

Q13. 108cm² ➔½ x 9 x 12 = 54, 54÷6= 9, 9 x 12 = 108

Q14a. 22 chairs ➔18 + 4 = 22   Q14b. pattern 24 102 – 6 -96 , 96 ÷ 4 = 24

Q15. $0.60➔ 8 x 3 = 24, 12 x 2 = 24, 48u $9.60, 1u $0.20, 3 x 20¢=60¢

Q16. 485 game cards ➔590÷35=625, 625÷5=125, 4 x 125=500, 500+20-35=485

Q17a. 7:18
Q17b. 8u ➔96,1u➔ 12, 7 + 28=35 (altogether), 35 x 12 =420

Q18. 17 years old ➔ 41-6 = 35, 35÷5=7, 7-1=6, 3 x 6 = 18, 18-1=17

RED SWASTIKA SCHOOL

2015 SEMESTRAL ASSESSMENT 1

MATHEMATICS
PAPER 1

Name : _____ (   )

Class : Primary 5 / _____

Date   : 11 May 2015

BOOKLET A

15 Questions
20 Marks
Duration of Paper 1 (Booklets A & B): 50 minutes

<u>Note:</u>

1. Do not open this Booklet until you are told to do so.
2. Read carefully the instructions given at the beginning of each part of the Booklet.
3. Do not waste time. If a question is difficult for you, go on to the next one.
4. Check your answers thoroughly and make sure you attempt every question.
5. In this booklet, you should have the following:
   (a) Page <u>1</u> to Page <u>5</u>
   (b) Questions <u>1</u> to <u>15</u>
6. You are <u>not</u> 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 correct oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

1. Six million, six hundred and six thousand and six written in numerals is _____.

   (1) 6 660 066
   (2) 6 660 006
   (3) 6 606 006
   (4) 6 006 606

2. Find the value of 22 x 10 000 + 8 x 1000 + 44 x 10.

   (1) 22 844
   (2) 220 844
   (3) 228 044
   (4) 228 440

3. The product of two numbers is 1 440. If one of the numbers is 20, what is the other number?

   (1) 7.2
   (2) 72
   (3) 288
   (4) 720

4. Find the value of (21 − 3) ÷ 3 x 10.

   (1) 6
   (2) 11
   (3) 60
   (4) 200

5   The figure below shows Triangle ABC. What is the base of
     Triangle ABC given that the height is XC?
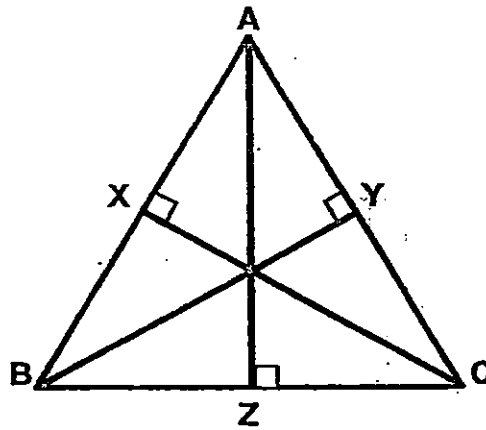
(1)   AB

(2)   AC

(3)   BC

(4)   BY

6    $\frac{3}{4} \div 6$ has the same value as _____.

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

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

(3) $6 \div \frac{3}{4}$

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

7   What is the ratio of the number of letter 'N' to the number of letter 'B' to
     the number of letter 'A' in the word "BANANA"?

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

8   What is the area of the shaded triangle?

1 cm

1 cm
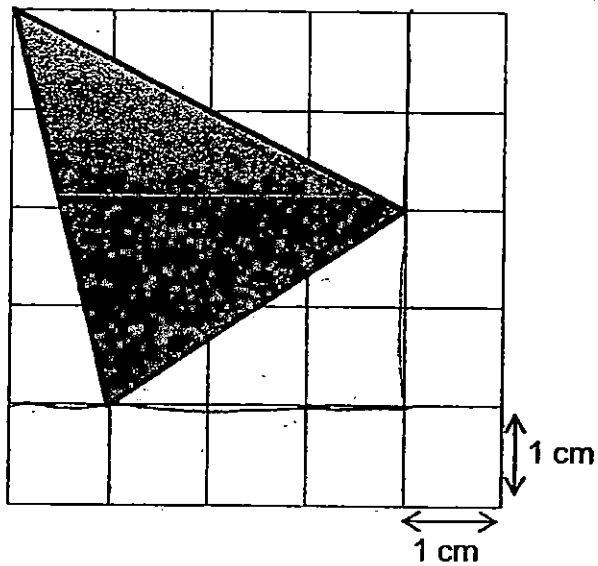
(1) 9 cm^2
(2) 8 cm^2
(3) 7 cm^2
(4) 6 cm^2

9   Bryan read 10 pages of a storybook on the 1st day after he bought it. Each day, he read 2 more pages than the previous day for the next 5 days. How many pages of the storybook did he read altogether for the 6 days?

(1) 20
(2) 60
(3) 70
(4) 90

10   Complete the following number pattern.

452 104, 463 104, 485 104, _____, 562 104

(1) 496 104
(2) 507 104
(3) 518 104
(4) 529 104

11 Eric jogged $2\frac{1}{3}$ km. This was $\frac{3}{4}$ km more than what James had jogged. Matthew jogged twice as much of the total distance jogged by Eric and James. What was the distance jogged by Matthew?

(1) $1\frac{7}{12}$

(2) $3\frac{11}{12}$

(3) $7\frac{5}{6}$

(4) $10\frac{5}{6}$

12 How many tenths must be added to 85.54 to get 86.64?

(1) 1
(2) 10
(3) 11
(4) 1.1

13 Dave bought 4 packets of chips at $2.40 each and 3 cans of soft drink at 70 cents each. How much did he spend altogether?

(1) $ 11.70
(2) $ 10.70
(3) $ 9.60
(4) $ 3.10

14 The figure shown is made up of Square A of side 2 cm and Rectangle B with breadth 3 cm. What is the length of the rectangle?
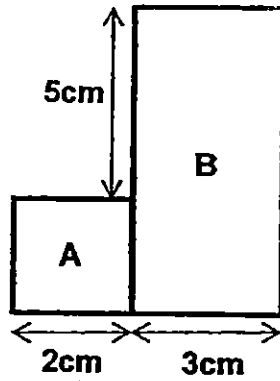
(1) 5 cm
(2) 7 cm
(3) 8 cm
(4) 10 cm

15 Which of the following figures has perpendicular lines?

(1) S

(2) A

(3) Z

(4) F

5

RED SWASTIKA SCHOOL

2015 SEMESTRAL ASSESSMENT 1

MATHEMATICS
PAPER 1

Name : _____ ( )

Class : Primary 5 / _____

Date : 11 May 2015

BOOKLET B

15 Questions
20 Marks

In this booklet, you should have the following:
(a) Page 6 to Page 10
(b) Questions 16 to 30

MARKS

	OBTAINED	POSSIBLE
BOOKLET A		20
BOOKLET B		20
TOTAL		40

Parent's Signature : _____

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 8 millions, 34 thousands, 5 hundreds and 27 ones in numerals.

Ans: _____

17   Use all the digits below to form the smallest 7 digit odd number. You can only use each digit once.

(2) (7) (0) (5) (8) (1) (6)

Ans: _____

18   Find the value of 20 - 40 ÷ 5 + 12 x 4.

Ans: _____

19   A number when divided by 7 gives a quotient of 58 and a remainder of 5. What is the number?

Ans: _____
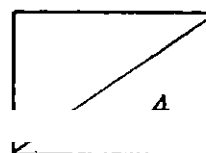
20   Find the area of Triangle ABC.
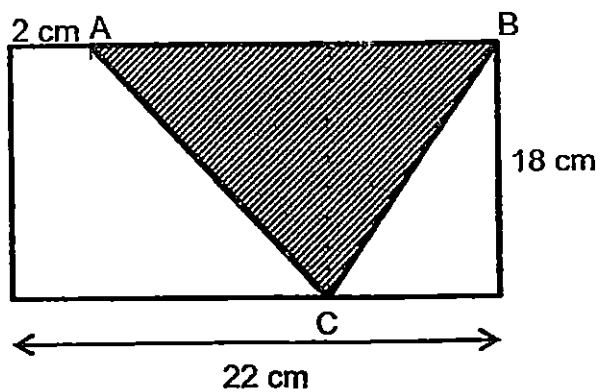
Ans: _____ cm²

---

21   Write $\dfrac{13}{7}$ as a mixed number.

Ans: _____

---

22   Find the missing number in the box below.

$18 : 27 = \boxed{} : 63$

Ans: _____

---
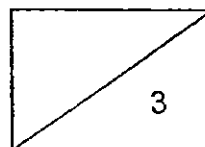
23   For every 2 pears that Mr Han sold, he sold 3 oranges. He sold 105 oranges. How many pears did he sell?

Ans: _____

24   Find the missing number in the box below.

$$33 \times 60 = 33 \times \boxed{} - 33 \times 20$$

Ans: _____

25   9 421 827 rounded off to the nearest thousand is _____.

Ans: _____
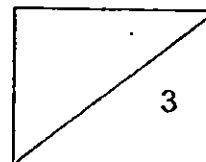
```
3
```

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

26   The figure below shows a piece of square paper folded at X such that XZ is $\frac{1}{3}$ of its length. Find the area of Triangle XYZ.
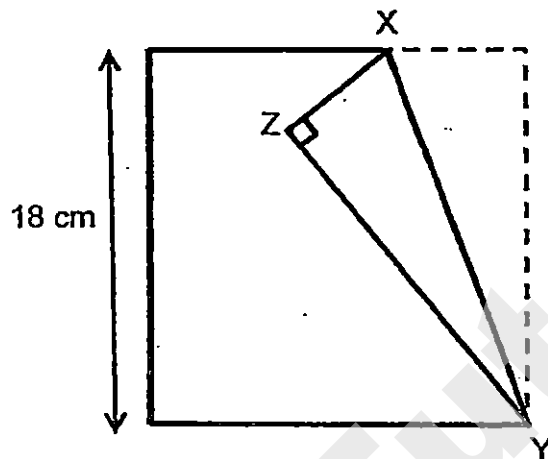
Ans: _____ cm^2

27   Round off the sum of 5.73 and 9.78 to the nearest whole number.

Ans: _____
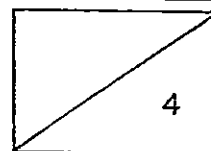
28 In the figure below, ABCD is a rectangle. Find ∠x.
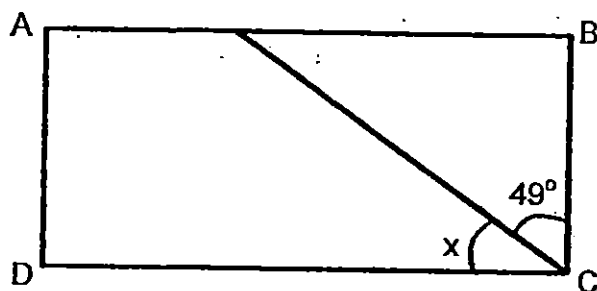
Ans: _____ °

---

29 Kelvin took 1 h 45 min to polish a car. If he finished polishing the car at 12.35 p.m., at what time did he start polishing the car?
(Give your answer in 24-hour clock.)

Ans: _____

---

30 The figure below is half of a symmetric shape. Complete the symmetric shape with the dotted line as the line of symmetry.
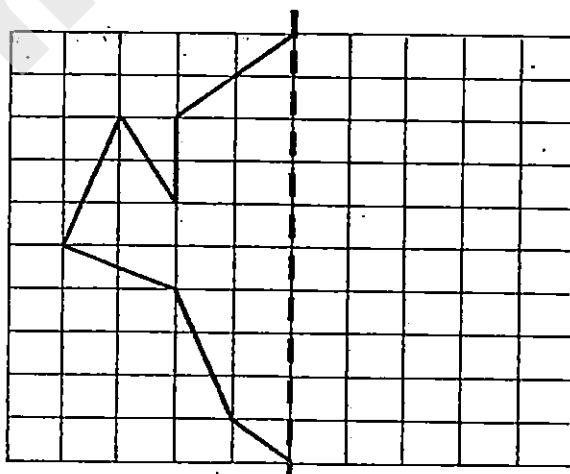
END OF PAPER
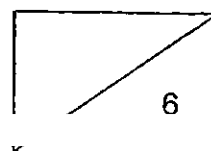
6

RED SWASTIKA SCHOOL

2015 SEMESTRAL ASSESSMENT 1

MATHEMATICS
PAPER 2

Name : _____ ( )

Class : Primary 5 / _____

Date : 11 May 2015

18 Questions
60 Marks
Duration of Paper 2: 1 hour 40 minutes

<u>Note:</u>
1. Do not open this Booklet until you are told to do so.
2. Read carefully the instructions given at the beginning of each part of the Booklet.
3. Do not waste time. If a question is difficult for you, go on to the next one.
4. Check your answers thoroughly and make sure you attempt every question.
5. In this paper, you should have the following:
   (a) Page <u>1</u> to Page <u>13</u>
   (b) Questions <u>1</u> to <u>18</u>
6. You are allowed to use a calculator.

MARKS

	OBTAINED	POSSIBLE
PAPER 1		40
PAPER 2		60
TOTAL		100

Parent's Signature : _____

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

---

1 There were some children in a hall. The ratio of the number of boys to the number of girls was 3 : 2. Another 50 boys came into the hall and the ratio of the number of boys to the number of girl became 4 : 1. How many girls were there in the hall?

Ans: _____

---

2 Mrs Ma bought $\frac{4}{5}$ ℓ of pineapple syrup. She poured the pineapple syrup equally into 8 similar cups. Find the amount of pineapple syrup in 6 of the cups.

Ans: _____ ℓ

1

4

There are ~~50~~ some families living in Goodville Estate. The bar graph below shows the number of children each family in that estate has. Study the graph carefully and use it to answer Questions 3 and 4.

Number of families (y-axis): 0, 10, 20, 30, 40, 50, 60
Number of children in each family (x-axis): 0, 1, 2, 3, 4
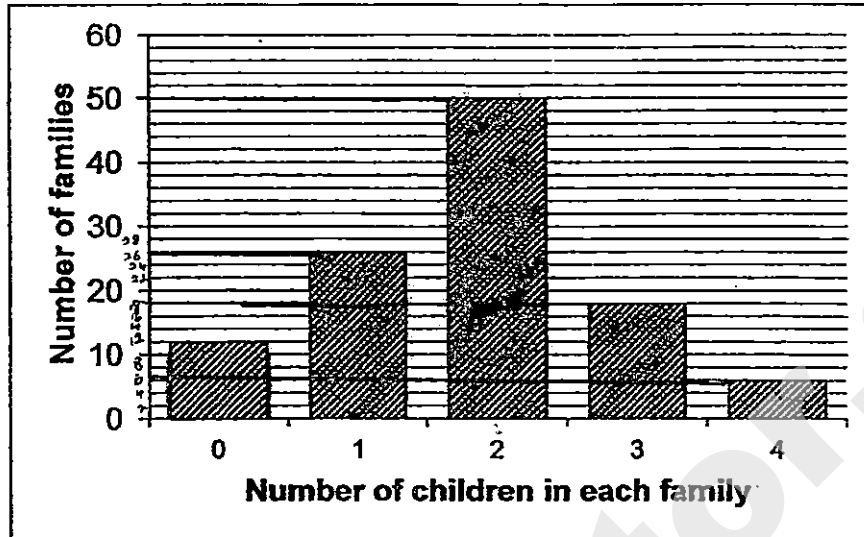
3 How many families have more than 2 children?

Ans: _____

4 How many children are there in the Goodville Estate?

Ans: _____

2
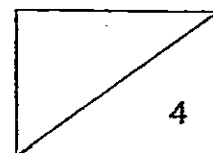
5   A stamp album contained 150 pages filled with exactly 24 stamps on
    each page. The stamps were re-arranged to have 30 stamps on each
    page, what was the total number of pages that were empty?

Ans: _____
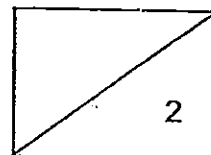
2

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

---

6 George and Terry saved $480 altogether. George and Paul saved $1 566 altogether. Paul saves 4 times as much as Terry. How much did George save?

Ans: _____ . [3]

---

7 A number of students, between 30 to 50, participated in a School Carnival race. If the competitors get into groups of 6, the last group will have 2 students. If they get into groups of 8, the last group will have 4 students. How many students are there in the School Carnival race?

Ans: _____ . [3]

6
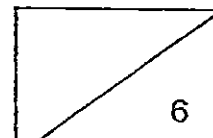
8   Jude has twice as many marbles as Ted. Yati has 36 more marbles than Ted. The three of them have 516 marbles altogether. How many marbles does Yati have?

Ans: _____ . [3]

---

9   The mass of 3 identical bricks is $\frac{7}{8}$ kg. Raymond used 10 of such bricks. What was the total mass of bricks used?
(Give your answer as a mixed number in its simplest form.)

Ans: _____ [3]

5
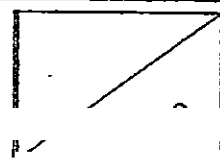
10   In the figure below, not drawn to scale, PQ = PS and PS is twice the
length of RS. Find the area of PQRS.
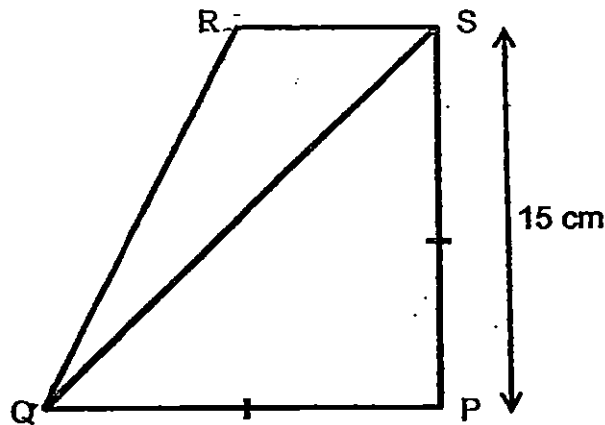
Ans: _____ [3]

---

11   Lorraine and Evann share 252 stickers in the ratio 2 : 5. Evann has
animal and princess stickers in the ratio of 4 : 14. How many more
princess stickers than animal stickers does Evann have?

Ans: _____ [3]
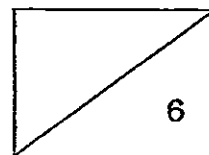
12   There was a stack of flyers for distribution. En Qi took $\frac{1}{3}$ of the pile and left. The next day, Hannah took $\frac{1}{3}$ of the remaining pile and left. Finally, Aziz came and took $\frac{1}{3}$ of what remained and found out that there were 296 flyers left. How many flyers were there at first?

Ans: _____ . [4]

7
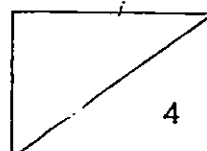
13. In a confectionery, the ratio of the number of chocolates to the number of lollipops made was 4 : 7. After another 586 chocolates and 76 lollipops were made, there was an equal number of chocolates and lollipops. How many lollipops were there in the end?

Ans: _____ .[4]

4

14   The figure below, not drawn to scale, is made up of rectangle ABFG and square CDEF. Find the total shaded area.
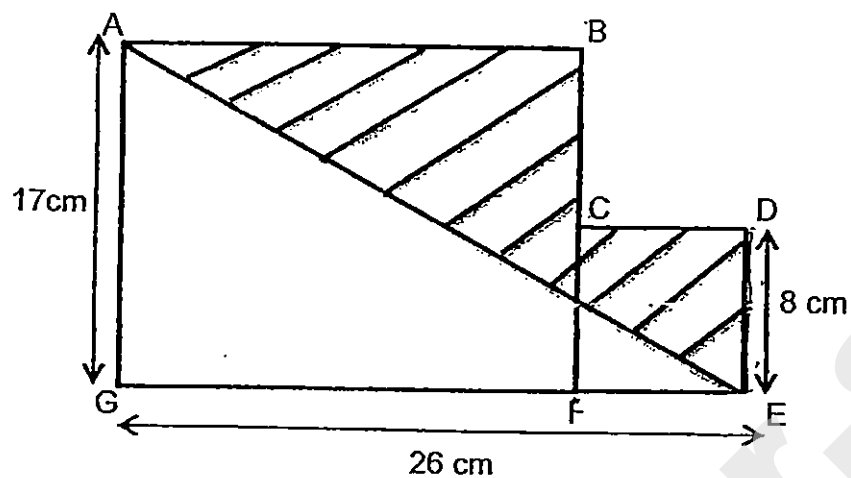
Ans: _____ .[4]
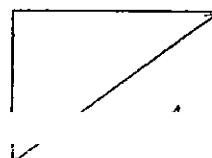
15 There were some ice cream sticks in 3 boxes A, B and C. Mike moved half of the ice cream sticks from box A to box B. Then he moved half of the ice cream sticks from box B to box C. As a result, box A had 24 ice cream sticks, box B had 52 ice cream sticks and box C had 78 ice cream sticks. Find the number of ice cream sticks in each of the boxes at first?

Ans : Box A : _____ [1]

Box B : _____ [3]

Box C : _____ [1]

5
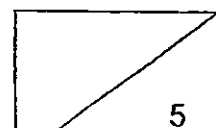
16   Andrew had 420 ml of orange juice. He gave $\frac{5}{7}$ of it to May and $\frac{1}{3}$ of the remainder to Lynn. How much orange juice had he left?

Ans: _____ [5]

5
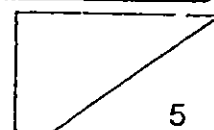
17 The figure below shows a rectangle that is divided into 3 parts, A, B and C.
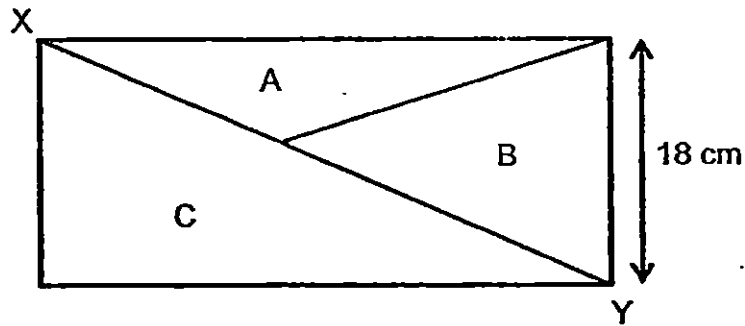
Line XY divides the rectangle into 2 equal parts. The ratio of the area of part A to part B is 3 : 4. The area of part A is 108 cm². The breadth of the rectangle is 18 cm. What is the length of the rectangle?

Ans: _____ [5]
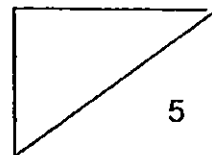
18   Aris, Lina and Susan were given some concert tickets to sell. Each ticket was sold at the same price. Aris sold $\frac{1}{3}$ of the tickets. Lina sold $\frac{1}{8}$ of the remaining tickets and Susan sold the rest of the tickets. Susan sold 30 tickets more than Aris. After all the tickets were sold, the 3 girls collected a total of $1 500.

(a) How many tickets were sold altogether?

(b) What was the cost of each ticket?

Ans: (a) _____ [3]

(b) _____ [2]

END OF PAPER 2

5
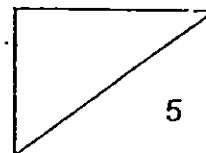
EXAM PAPER 2015
LEVEL   : PRIMARY 5
SCHOOL   : RED SWASTIKA SCHOOL
SUBJECT : MATHS
TERM   : SA1

PAPER 1 BOOKLET A

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

PAPER 1 – BOOKLET B

Q16. ANS : 8034527

Q17. ANS : 1025687

Q18. ANS : 60
$20 – 8 + 12 \times 4 = 20 – 8 + 48 = 12 + 48 = 60$

Q19. ANS : 411

Q20. ANS : 180cm²
$22 – 2 = 20$, ½ x 20 x 18 = 180

Q21. ANS: $1\frac{6}{7}$
$\frac{13}{7} = 1\frac{6}{7}$

Q22. ANS : 42
$18 : 27 = 2 : 3 = 42 : 63$

Q23. ANS : 70
$105 ÷ 3 = 35$, $35 \times 2 = 70$

Q24. ANS : 80
$60 + 20 = 80$

Q25. ANS : 9422000

Q26. ANS : 54cm²
Base of ΔXZY ➜ $18 ÷ 3 = 6$
½ X 6 X 18 = 54

Q27. ANS : 16
$5.73 + 9.78 = 15.51$
$15.51 \approx 16$

Q28. ANS : 41
$90 – 49 = 41$

Q29. ANS : 1050
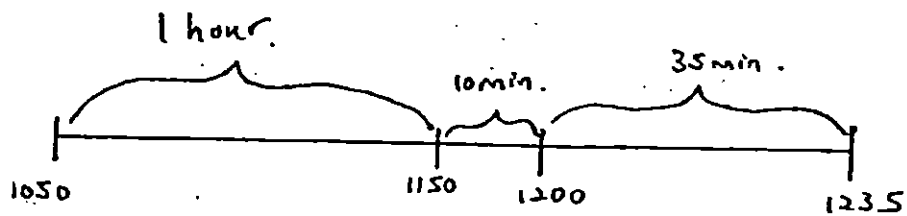
Q30. ANS : SEE PICTURE
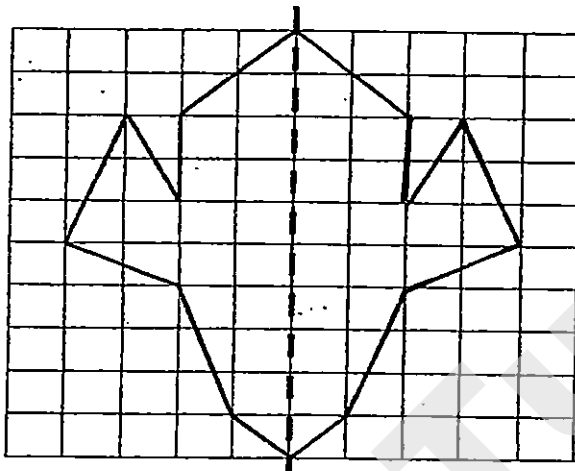
PAPER 2

Q1. ANS : 20
B : G
3 : 2
4 : 1 = 8 : 2
8 – 3 = 5
5U → 50
1U → 50 ÷ 5 = 10
2U → 10 X 2 = 20

Q2. ANS : ⅗
$\frac{4}{5} ÷ 8 = \frac{1}{10}$
$\frac{1}{10} X 6 = \frac{3}{5}$

Q3. ANS : 204
10 + 6 = 24

Q4. ANS : 204
(1 x 26) + (2 x 50) + (3 x 18) + (4 x 6) = 204

Q5. ANS : 30
150 X 24 = 3600
3600 ÷ 30 = 120
150 − 120 = 30

Q6. ANS : $118
3 units ➔ 1566 − 480 = 1086
1U ➔ 1086 ÷ 3 = 362
480 − 362 = 118

$G + T$ ⬚ G

480

$G + P$ ⬚ G | | | |

1566
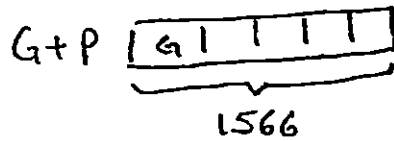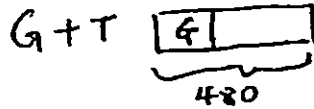
Q7. ANS : 44
Multiple of 6 + 2 ➔ 32, 38, (44), 50
Multiple of 8 + 4 ➔ 36, (44)

Q8. ANS : 156
516 − 36 = 480
480 ÷ 4 = 120
120 + 36 = 156

Q9. ANS : $2\frac{11}{12}$ kg
$\frac{7}{8} \div 32 = \frac{7}{24}$

$\frac{7}{24} \times 10 = 2\frac{11}{12}$

Q10. ANS : 168.75cm²
15 ÷ 2 = 7.5
15 x 15 = 225
$\frac{1}{2} \times 7.5 \times 15 = 56.25$
225 − 56.25 = 168.75

Q11. ANS : 100

L : E
2 : 5
2 + 5 = 7
7U → 252 ÷ 7 = 36
5U → 36 X 5 = 180
4 + 14 = 18
18U → 180
1U → 180 ÷ 18 = 10
14 − 4 = 10
10 X 10 = 100

Q12. ANS : 999

$\frac{2}{3} X \frac{2}{3} = \frac{4}{9}$

$\frac{2}{3} X \frac{4}{9} = \frac{8}{27}$

8U → 296
1U → 296 ÷ 8 = 37
27U → 37 X 27 = 999

Q13. ANS : 1266

C : L
4 : 7
3U → 586 − 76 = 510
1U → 510 ÷ 3 = 170
7U → 170 X 7 = 1190
1190 + 76 = 1266

Q14. ANS : 149cm²

GF → 26 − 8 = 18
Area of rectangle = 18 x 17 = 306
Area of square = 8 x 8 = 64
Total area = 306 + 64 = 370
Area of unshaded triangle = ½ x 26 x 17 = 221
Shaded part = 370 − 221 = 149

Q15a. Box A : 48   BOX B : 80   BOX C : 26

A → 24 X 2 = 48
B → 52 X 2 = 100, 104 − 24 = 80
C → 78 − 52 = 26

Q16. ANS : 80ml

$1 - \frac{5}{7} = \frac{2}{7}$

$1 - \frac{1}{3} = \frac{2}{3}$

$\frac{2}{3} x \frac{2}{7} = \frac{4}{21}$

420 ÷ 21 = 20
20 x 4 = 80

Q17. ANS : 28cm
3U ➔ 108
1U ➔ 108 ÷ 3 = 36
4U ➔ 36 X 4 = 144
144 + 108 = 252
252 X 2 = 504
504 ÷ 18 = 20

Q18a. ANS : 120
3U ➔ 30
1U ➔ 30 ÷ 3 = 10
12U ➔ 12 X 10 = 120

Q18b. ANS : $12.50
1500 ÷ 120 = 12.50

Rosyth School
First Semestral Assessment 2015
Primary 5 Mathematics

Name: _____   Register No. _____

Class: Pr 5 - _____

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

Total Time for Booklets A and B : 50 minutes

PAPER 1
(Booklet A)

Instructions to Pupils:

1. Do not open this booklet until you are told to do so.

2. Follow all instructions carefully.

3. Shade your answers in the Optical Answer Sheet (OAS) provided.

4. You are **not** allowed to use a calculator.

5. Answer all questions.

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

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

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

(20 marks)

1. Which of the following numbers is two million and fourteen thousand, five hundred and six?

    (1) 2 014 056
    (2) 2 014 506
    (3) 2 140 056
    (4) 2 140 506

2. Which of the following numbers are common factors of 12 and 18?

    1) 3 and 6
    2) 3 and 8
    3) 4 and 6
    4) 4 and 8

3. The amount Mr Koh paid for his apartment was $960 000 when rounded off to the nearest ten thousand. Which of the following could be the actual cost of the apartment?

    (1) $950 999
    (2) $954 999
    (3) $964 499
    (4) $965 499

4. **700 000 + ☐ + 5000 + 400 30 + 2 = 765 432**

    What is the missing number in the box?

    (1) 60
    (2) 600
    (3) 6 000
    (4) 60 000

2

5. There were 50 children and 300 adults during a farm visit. What fraction of the visitors were children?

    (1) $\dfrac{1}{7}$

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

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

    (4) $\dfrac{6}{7}$

6. Which of the following has the same value as $\dfrac{15}{500}$?

    (1) 0.015
    (2) 0.150
    (3) 0.030
    (4) 0.300

7. Which of the following is greater than $\dfrac{5}{8}$?

    1) $\dfrac{1}{2}$

    2) $\dfrac{2}{3}$

    3) $\dfrac{4}{7}$

    4) $\dfrac{5}{9}$

3

8. Which of the following shapes will form the tessellation shown below?
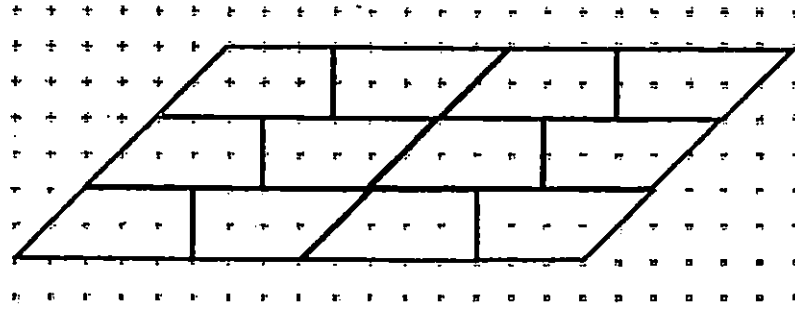
(1)

(2)

(3)

(4)

9. The figure below shows a triangle ABC. Which of the following lines is the height of this triangle?
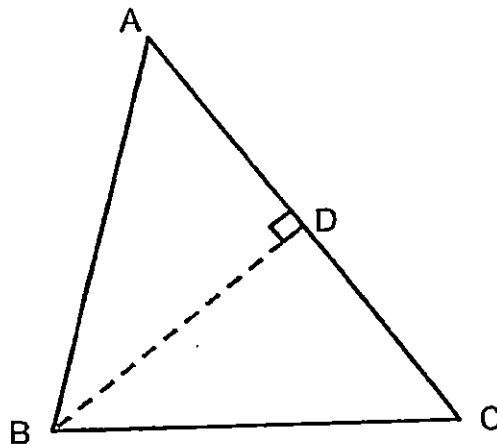
(1) AB
(2) BC
(3) AC
(4) BD

10. The table below shows the number of cars a mechanic repaired in the morning and afternoon last week.
On how many days was the mechanic able to repair at least 3 cars?

Day	Number of Cars Repaired	
	Morning	Afternoon
Monday	2	1
Tuesday	3	2
Wednesday	1	1
Thursday	0	3
Friday	3	1
Saturday	3	0

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

5

11. Find the area of the triangle below. The figure is not drawn to scale.
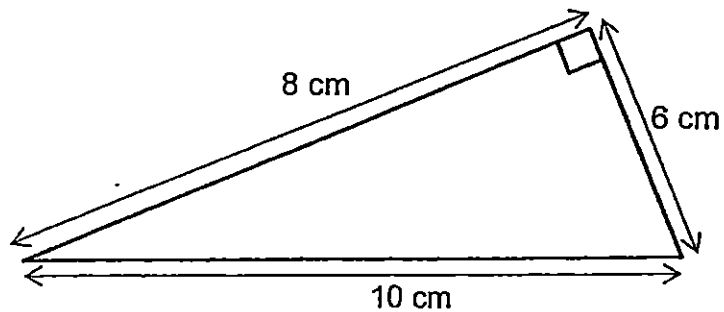
(1) 24 cm^2
(2) 30 cm^2
(3) 40 cm^2
(4) 48 cm^2

12. Mdm Aziza counted the number of erasers each student in her class has in their pencil cases. She recorded the information in a bar graph shown below. What is the total number of erasers the students have?
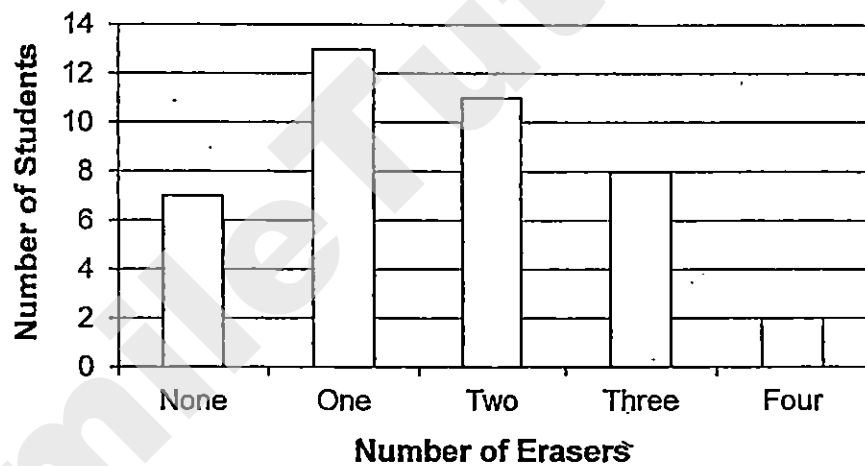
(1) 34
(2) 41
(3) 64
(4) 67

13. In the number line below, find the value of X.
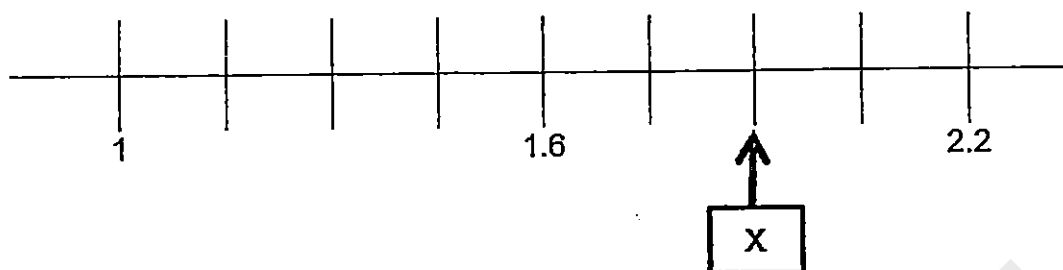
(1) 1.62
(2) 1.80
(3) 1.90
(4) 2.00

14. Mei Ling bought a television and a computer.

The mass of the television was 12 kg.

$\frac{3}{5}$ of the computer weighs as much as $\frac{3}{4}$ of the television.

What was the mass of the computer?

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

(2) 9 kg

(3) $9\frac{3}{5}$ kg

(4) 15 kg

15. There were as many boys as girls in a hall. $\frac{2}{3}$ of the boys and $\frac{1}{6}$ of the girls went ~~left~~ for recess. What fraction of the class went for recess?

(1) $\frac{1}{9}$

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

(3) $\frac{5}{12}$

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

7

Rosyth School
First Semestral Assessment 2015
Primary 5 Mathematics

Name: _____   Register No. _____

Class: Pr 5 - _____

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

Total Time for Booklets A and B : 50 minutes

PAPER 1
(Booklet B)

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

* This booklet consists of 6 pages (including this 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)

16. Fill in the blank with the correct number to complete the number pattern.

9 322, 9 302, _____ , 9 262, 9 242

Ans: _____

17. Find the sum of $\frac{3}{4}$ and $\frac{2}{9}$.

Ans: _____

18. Find the value of 203.9 x 60.

Ans: _____

19. Express 20 km 8 m in metres.

Ans: _____m

2

20. Bala earned $1 530 in March and $3 050 in April. What was the average amount Bala earned in the two months?

Ans: $ _____

21. The figure below is made up of 4 identical squares with each side measuring 3 cm. Find the perimeter of the figure.

3 cm

3 cm
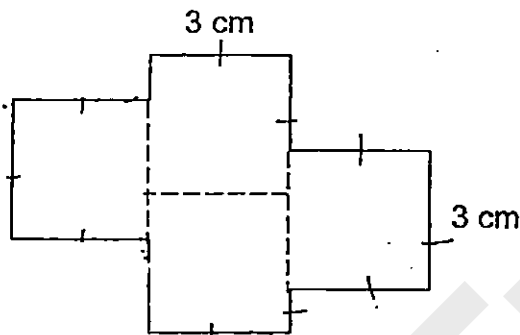
Ans: _____ cm

22. The graph below shows the number of minutes James took to do his Mathematics homework last week. What was the total number of hours he took to do his Mathematics homework last week?

Ans: _____ h

3
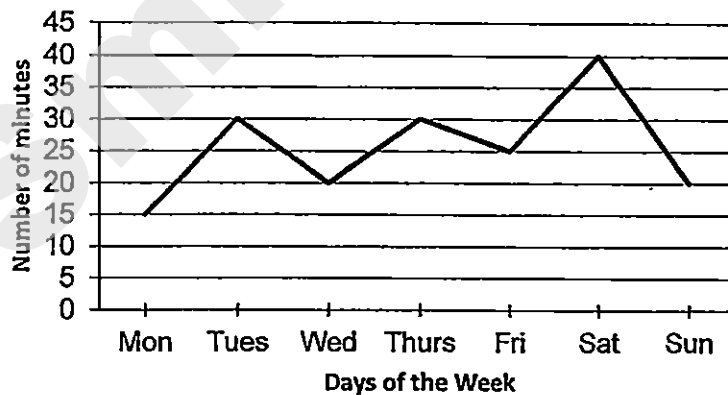
23. How many more squares must be shaded so that $\frac{2}{3}$ of the figure would be shaded?
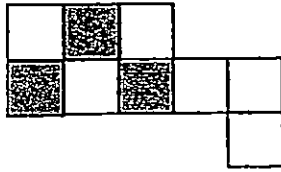
Ans: _____

24. Complete the figure using the dotted line as the line of symmetry.
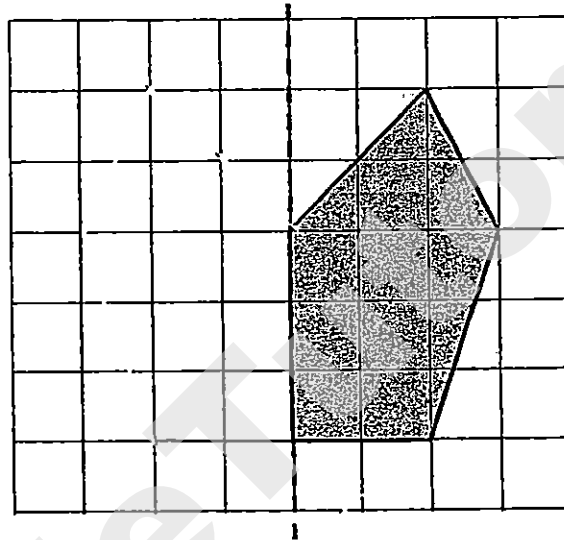
25. The side of 1 small square (not drawn to scale) is 1 cm. Find the shaded area.
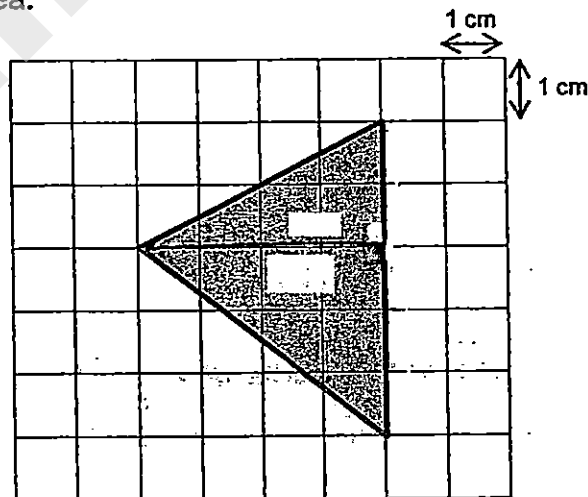
Ans: _____ cm^2

(Go on to the next page)

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. Divide 8080 by 7. What is the remainder?

Ans: _____

27. What are the third and fourth common multiples of 6 and 8?

Ans: _____ **and** _____

28. In the space below, the straight line CD and the point X is given.
Draw a line parallel to the line CD through the point X.

(Go on to the next page)
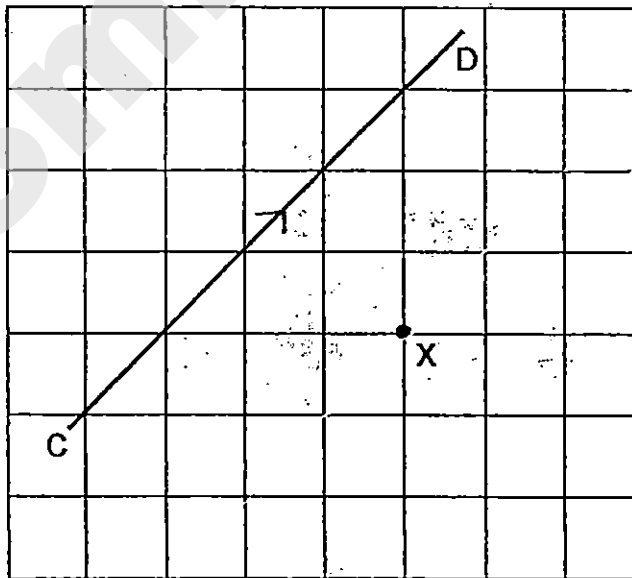
29. John jogged 3 km from his house to school. His classmate Mary jogged $\frac{3}{8}$ km less than he did. What was the total distance John and Mary jogged? Give your answer in the simplest form.

Ans: _____km

30. Boston bought $\frac{5}{9}$ℓ of paint to paint his bedroom and kitchen.

He used $\frac{3}{5}$ of the paint for his bedroom. After using the remaining paint, he

needed another $\frac{2}{3}$ℓ to paint his kitchen. How much paint did he use to paint

his kitchen? Give your answer in the simplest form.

Ans: _____ℓ

End of Booklet B

Rosyth School
First Semestral Assessment 2015
Primary 5 Mathematics

Name: _____ Register No. _____

Class: Pr 5 - _____

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

Time: 1 h 40 min

PAPER 2

Instructions to Pupils:

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

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

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

* This booklet consists of 17 pages (including this cover page)

1

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. Peter packed marbles of different colours in plastic bags. Each bag contained 15 red marbles, 18 blue marbles and 14 green marbles. He packed 56 bags. What was the total number of marbles he packed?

Ans: _____

2. James has $\frac{2}{5}$ as many pencils as Dorothy and $\frac{2}{3}$ as many pencils as Tim. They have a total of 120 pencils. How many pencils does James have?

Ans: _____

2

3. Find the area of triangle ACD.
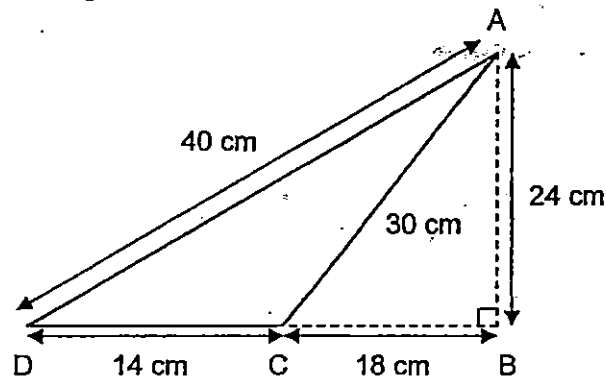
Ans: _____ cm²

4. Mrs Lim's family ate a total of $\frac{8}{9}$ kg of rice in November and December. The amount of rice eaten in December was twice as much as the amount eaten in November. How much rice did Mrs Lim's family eat in December?

Ans: _____ kg

3

5. Alan, Bala and Caili scored an average of 85 marks. Alan scored 3 marks more than Bala and 6 marks less than Caili. How many marks did Caili score?

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)

6. The table below shows the charges for parking at a public car park.

Time	Parking Charges
7.00 a.m. to 6.00 p.m.	$2.00 per hour
6.00 p.m. to 10.00 p.m.	$1.50 per hour or part thereof
10.00 p.m. to 7.00 a.m.	$3.00 per entry

Mrs Brown parked her car at the car park from 5.00 p.m. to 8.10 p.m. How much did she pay to park her car?

Ans: _____ . [3m]

7. The figure below shows four triangles within a rectangle. The total area of A and B is $\frac{2}{3}$ the area of C. The area of C is 57 cm^2. What is the area of the shaded triangle?
(The figure is not drawn to scale)

Ans: _____ [4m]

6

(Go on to the next page)
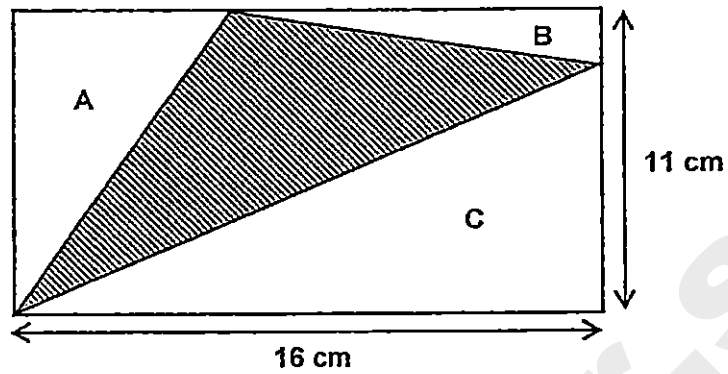
8. The average age of 15 participants in a baking class was 39 years. When 3 students left the class, the average age of the remaining students became 36 years. If the 3 students were of the same age, what was the age of 1 student who left the class?

Ans:_____ [3m]

(Go on to the next page)

9. The figure below is made up of 3 identical small rectangles and 1 large rectangle. The breadth of the large rectangle is twice the breadth of the small rectangle.
Find the area of the figure.
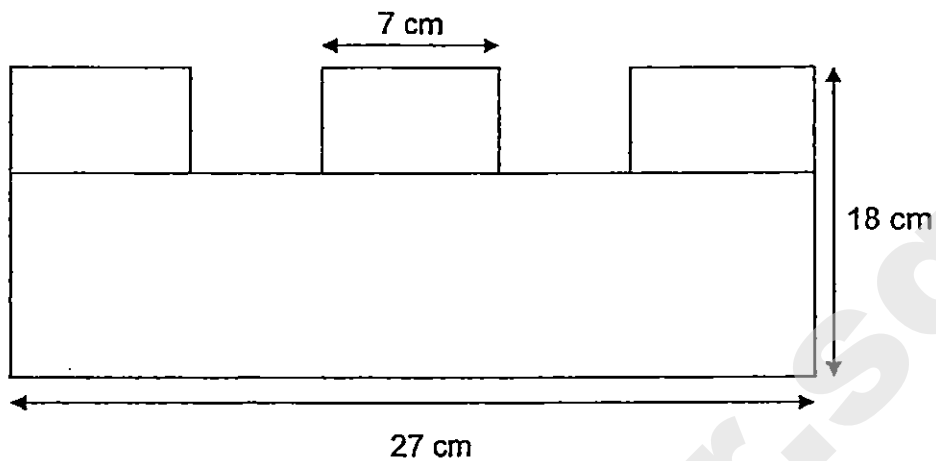
Ans: _____ [4m]

10. Susan bought $\frac{1}{4}$ of the chocolates at a stall. She gave the stall owner $150 and got $42 change back. Each chocolate costs $6. How many chocolates did the stall owner have at first?

Ans: _____ [3m]

9

11. A crate contained apples and pears. There were 29 more apples than pears at first. After $\frac{1}{3}$ of the apples were removed from the crate, there were 5 more apples than pears. What was the total number of apples and pears in the crate at first?

Ans: _____ .[3m]

(Go on to the next page)

12. Tank A contained 755 litres of water. Tank B contained 170 litres of water. After an equal amount of water was poured into each tank, Tank A had four times as much water as Tank B.
a) How much water was poured into each tank?
b) What was the total amount of water in Tank A and Tank B in the end?

Ans: a) _____ [3m]

b)_____ [1m]

11 ·

13.   Andy and Billy each had some sweets. If Andy gave 23 sweets to Billy, they would have the same number of sweets. If Billy gave 7 sweets to Andy, Andy would have 5 times as many sweets as Billy.
a) How many sweets did Andy have?
b) How many sweets did Billy have?

Ans:a) _____ .[3m]

b) _____ .[1m]

12

14. John had some green, red and black beans in his container. $\frac{3}{7}$ of the beans were red. $\frac{4}{5}$ of the remainder was green and the rest were black. There were 44 more red beans than black beans.

than black beans.
a) How many beans did John have altogether?
b) How many more green beans than black beans were there in the container?

Ans: a)_____ [3m]

b)_____ [2m]

13

15. Ahmad bought some books at an average price of $3.50 each. He bought another 2 books at $6 each and the average price became $4. How many books did he buy altogether?

Ans: _____ [3m]

14

16. During a concert break, $\frac{3}{8}$ of the children and $\frac{4}{7}$ of the adults left the hall. The number of children and the number of adults who remained in the hall was equal. 1080 children remained in the hall. What was the total number of adults and children who attended the concert?

Ans: _____ [4m]

17. Daniel had a sum of money. If he bought 6 files, he would be left with $12.60. If he bought 23 pens, he would be short of $2.80. A file costs twice as much as a pen. What is the maximum number of files Daniel can buy if he wants to buy an equal number of files and pens?

Ans _____ [5m]

(Go on to the next page)

18. Joel bought 5 pairs of shorts and spent the same amount of money on 7 T-shirts.
Each pair of shorts cost $12 more than each T-shirt
   a) What was the cost of 1 T-shirt?
   b) How much money did Joel spend altogether?

Ans: a)_____ . [3m]

b)._____ . [2m]

End of Paper

17

EXAM PAPER 2015
LEVEL : PRIMARY 5
SCHOOL : ROSYTH SCHOOL
SUBJECT : MATHS
TERM : SA1

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

Q16. 9282

Q17. $\frac{35}{36}$

Q18. 12234

Q19. 20008m

Q20. $2290 ➔ $1530 + $3050 = 4580, $4580 ÷ 2 = $2290

Q21. 30cm ➔ 10 x 3 cm = 30cm

Q22. 3hr ➔ 15+30+20+30+25+40+20=180min.

Q23. 3 ➔ 9÷3 = 3 , 3 x 2 = 6 , 6 – 3 = 3.

Q24. SEE PICTURE
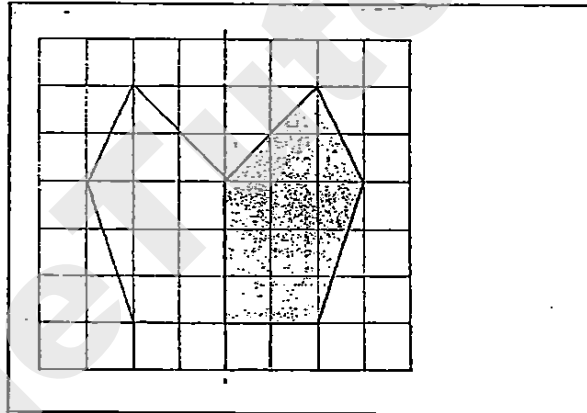
Q25. 10cm² ➔ ½ x 5 x 4 = 10

Q26. 2. ➔ 8080 ÷ 7 = 1154r2

Q27. 72 and 96

Multiples of 6 ➔ 6,12,18,24,30,36,42,48,54,60......

Multiples of 8 ➔ 8,16,24,32,40,48,56,64,72,80......

24 x 3 = 72, 24 x 4 = 96

Q28. SEE PICTURE
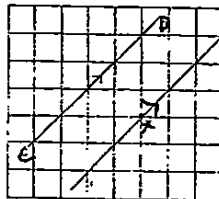
Q29. $5\frac{5}{8}$ km ➔ $3 - \frac{3}{8} = 2\frac{5}{8}$ (M) , $3 + 2\frac{5}{8} = 5\frac{5}{8}$ (J + M)

Q30. $\frac{8}{9}$ litre ➔ $\frac{2}{9}\ell + \frac{2}{3}\ell = \frac{2}{9}\ell + \frac{6}{9}\ell = \frac{8}{9}\ell$

Q1. 2632 ➔ 15+18 +14=47 (no. of marbles in each bag) , 56 x 47=2632

Q2. 24 ➔ 10U ➔ 120, U ➔ 120÷10=12, 2U ➔ 12 X 2 = 24

Q3. 168cm² ➔ A ➔ ½ x B X H, ½ x 14 x 24 = 168 (Area of Δ ACD)

Q4. $\frac{16}{27} kg \rightarrow 3U \rightarrow \frac{8}{9}$, $U \rightarrow \frac{8}{9} \div 3 = \frac{8}{9} \times \frac{1}{3} = \frac{8}{27}$, $2U \rightarrow \frac{8}{27} \times 2 = \frac{16}{27}$

Q5. 90 → 85 x 3 = 255 (total marks) → 3U→255–3–3–6=243, U→243÷3=81, 81 +3+6=90 (C)

Q6. $6.50 → $2 +$1.50 +$1.50 = $6.50

charges $2 $1.50 $1.50 $1.50

Time   5pm   6pm   7pm   8pm   8-10pm
            1 hr   1 hr   1 hr   1 hr
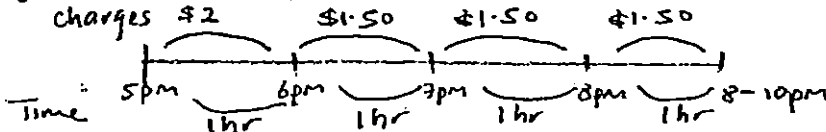
Q7. 81cm² → Area of C → 57cm², 57cm²÷3=19cm, 19cm²x2 =38cm²(area of A & B),
57cm²+38cm²=95cm² (Area of A+B+C), Total area → 11cm x 16cm =176cm²,
shaded area → 176cm² – 95cm2 = 81cm²

Q8. 51 → 15 X 39 =585, 15–3=12, 12 X 36 =432, 585 – 432 =153, 153 ÷ 3 = 51

Q9. 450cm² → 3U →18, 1U →6, 1 small rect. → 7x 6 = 42, 3 small rect. → 42 x3 = 136
1 big rect → 27 X 12 = 324, Total → 126 + 324 = 450

Q10. 72 → $150 – $42= $108, $108 ÷ $6 = 18 of chocolates, $\frac{4}{4}$ → 72 chocolates

Q11. 115 → 29–5=24, $\frac{1}{3}$ → 24, $\frac{3}{3}$ → 24 x 3 = 72 (no. of apples at first), 72 – 79 = 43 (no. of
pears at first), 72 + 43 =115 (total no. of A + P at first)

Q12.a. 25 litre   Q12b. 975 litre
755 litre → 170 litre = 585litre, 3U →585 litre, U →585 ÷ 3 = 195litre, 195 – 170 = 25
4U →195 X 4 = 780 (Amt. of water in Tank A in the end), 780 + 195 = 975

Q13a. 68   Q13b. 22
23 x 2 = 46, 4U→7+46+7=60, U→60÷4=15, 15+7+46=68 (Andy), 15+7=22 (Billy)

Q14a. 140   Q14b.48
$\frac{15}{35} - \frac{4}{35} = \frac{11}{35}$, 11U →44, U →44÷11=4,
35U →35X4=140 (a), $\frac{16}{35} - \frac{4}{35} = \frac{12}{35}$, 12U →12x4 = 48 (b)

Q15. 10 → 6–2 = 2 (excess), 4 –3.50=0.50 (diff. between old and new average),
→ (2 x 2) ÷ 0.50=8, 8 + 2= 10

Q16. 4248 → $\frac{5}{8}$ of C = $\frac{3}{7}$ of A, $\frac{15}{24}$ of C = $\frac{15}{35}$ of A, 15U → 1080, U → 1080 ÷ 15 = 72,
(A+C) 24 + 35 = 59, 59U → 72 x 59= 4248

Q17. 7 → 2P=1F, 12P=6F, 23–12=11, 11P →$12.60 +$2.80=$15.40, P →$15.40÷11=1.40,
2P →1.40X2=2.80, F →2.80, 6F →2.80X6=16.80, 16.80+12.60=29.40(money had at first)
1.40+2.80=4.20(cost of 1 set), 29.40÷4.20=71, 7x1=7

Q18a. $30   Q18b. $420
5S = 7TS, S–$12 =TS,
1S →1U+12, 1TS →1U, 5S →5U+$60, 7TS →7U, 5U+$60=7U, $60=2U, U=$30 (a),
7u=30x7=210, 210+210=$420 (b)

THE END

2

SINGAPORE CHINESE GIRLS' SCHOOL

FIRST SEMESTRAL ASSESSMENT 2015

PRIMARY 5

MATHEMATICS
PAPER 1

BOOKLET A

Name : _____ ( )

Class : Primary 5 SY/C/G/SE/P

		Marks attained	Max Mark	Parent's Signature
Paper 1	Booklet A		**20**	
	Booklet B		**20**	
Paper 2			**60**	
Total Marks			**100**	

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

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

---

1. Which of the following numbers has the digit '3' in the hundredths place?

    (1)   203.203
    (2)   234.234
    (3)   302.302
    (4)   320.023

2. How many $\frac{1}{6}$s are there in $1\frac{2}{3}$?

    (1)   5
    (2)   9
    (3)   10
    (4)   4

3. Which of the following is 3000 when rounded off to the nearest hundred?

    (1)   2290.9
    (2)   2990.9
    (3)   3090.9
    (4)   3990.9

4. $\frac{13}{20}$ has the same value as _____.

    (1)   0.13
    (2)   0.65
    (3)   1.3
    (4)   6.5

1

5. $\dfrac{4}{5} \div 12 =$ [   ]

    (1) $\dfrac{4}{5} \div \dfrac{1}{12}$

    (2) $\dfrac{4}{5} \times \dfrac{1}{12}$

    (3) $12 \div \dfrac{5}{4}$

    (4) $12 \times \dfrac{5}{4}$

6. Which of the following is the same as 4kg 90g?

    (1) 490g

    (2) 4009g

    (3) 4090g

    (4) 4900g

7. Find the value of $10 - 4 \times 6 \div (4 - 1)$.

    (1) 8

    (2) 2

    (3) 3

    (4) 12

8. A number when divided by 8 has a quotient of 4 and a remainder of 3. What is the number?

    (1) 20

    (2) 28

    (3) 29

    (4) 35

9. Vivien had 2kg of flour. She used $\frac{1}{4}$ of it to bake a cake and $\frac{1}{4}$kg to make some cookies. How much flour have she used altogether?

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

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

   (3) 1kg

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

10. The number of stamps Jamie had was five times the number of stamps Katherine had. Jamie gave Katherine some stamps such that they have equal number of stamps. What is the ratio of the number of stamps Jamie gave to the total number of stamps?

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

11. There are 9 coins in Dai Ling's piggy bank. There are only 20-cent coins and 50-cent coins in the piggy bank. Which of the following could be the total amount of money?

    (1) $1.80
    (2) $2.40
    (3) $2.80
    (4) $3.20

12. Study the following pattern.

$$S\ C\ G\ S\ P\ S\ C\ G\ S\ P\ S\ C\ G\ S\ P\ \ldots\ldots$$

Which is the 57th alphabet in the sequence?

(1) C
(2) G
(3) P
(4) S

13. The figure below, not drawn to scale, consists of a pair of parallel lines, BC and AD. Which triangle below has the same area as Triangle ACE?
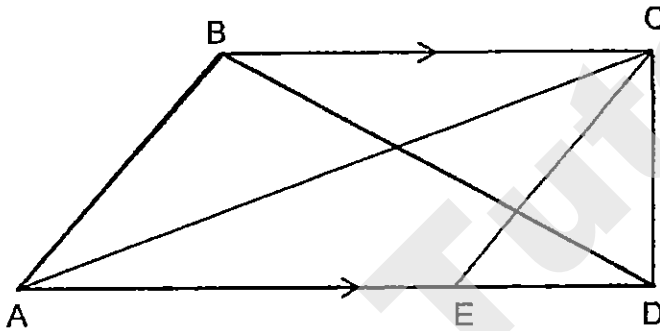
(1) ABC
(2) ACD
(3) BCD
(4) CDE

4

14. The clocks below show the usual start and end time of James' tuition class. On Monday, James arrived 15 minutes late but left on time. What was the duration of that lesson?
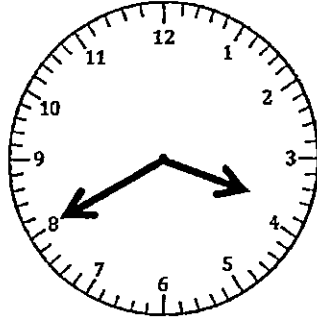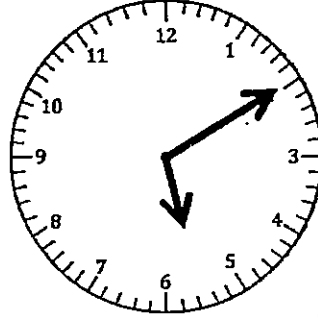
Start   End

(1) 15 min

(2) 45 min

(3) 1 hr 15 min

(4) 1 hr 45 min

15. The ratio of the number of Alice's sweets to the number of Betty's sweets was 3:2. After Betty bought another 5 sweets, she has 2 more sweets than Alice. How many sweets did Alice have?

(1) 5

(2) 8

(3) 3

(4) 9

-End of booklet A-

SINGAPORE CHINESE GIRLS' SCHOOL

FIRST SEMESTRAL ASSESSMENT 2015

PRIMARY 5

MATHEMATICS
PAPER 1

BOOKLET B

Name : _____ (   )

Class : Primary 5 SY/C/G/SE/P

Paper 1	Mark attained	Max Mark
Booklet B		**20**

15 Questions
20 Marks

Total Time for Booklets A and B: 50 min

<u>**INSTRUCTIONS TO CANDIDATES**</u>
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

Name: _____ ( ) **Class: P5 SY/C/G/SE/P**

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. There are $\frac{2}{3}$ as many boys as girls. What fraction of the total number of girls are

    girls?

    Ans: _____

17. What is the ratio of 8 km to 500 m?

    Ans: _____

18. Express $\frac{3}{7}$ as a decimal corrected to 2 decimal places.

    Ans: _____

19. What is reading indicated by the arrow on the number line?
    Give your answer in decimals.

    5.5   5.8

    Ans: _____

4

1
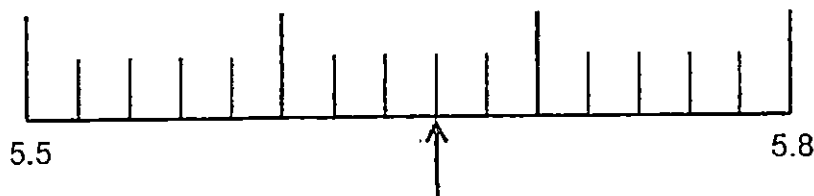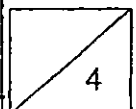
20. Which of the following fraction is the greatest?

$$\frac{1}{3} , \frac{2}{5} , \frac{5}{9} , \frac{6}{13}$$

Ans: _____

21. Find the value of 0.26 x 4.

Ans: _____

22. Find the volume of the cuboid below.

5 cm

3 cm

10 cm
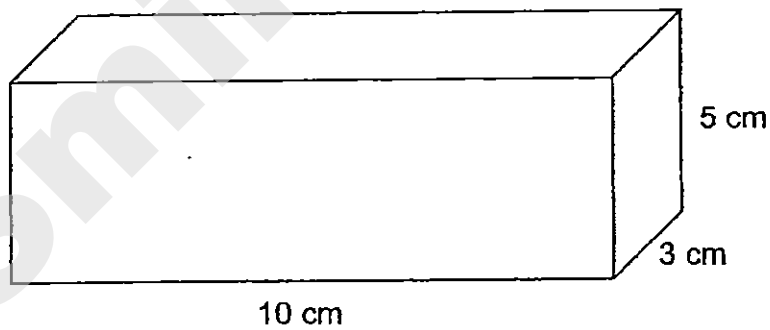
Ans: _____ cm^3

3

23. Find the area of the triangle below.

8 cm

15 cm
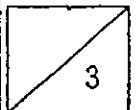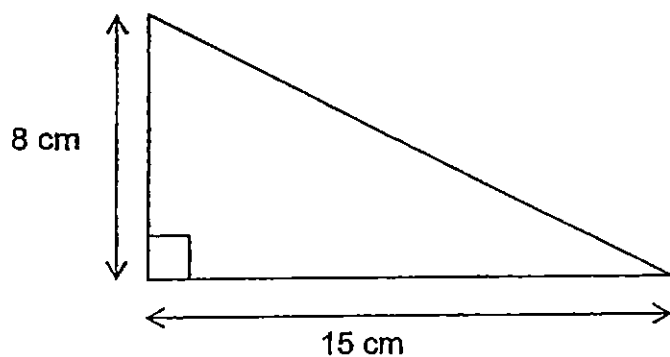
Ans: _____ cm^2

24. Find the value of $1\frac{2}{3}+\frac{3}{5}$.

Ans: _____

25. What is the missing number in the box below?

$$32 \times 8 = \boxed{} \times 8 + 5 \times 8$$

Ans: _____
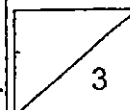
3

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

26. The figure below is made up of identical 2-cm cubes. What is the volume of the figure below?
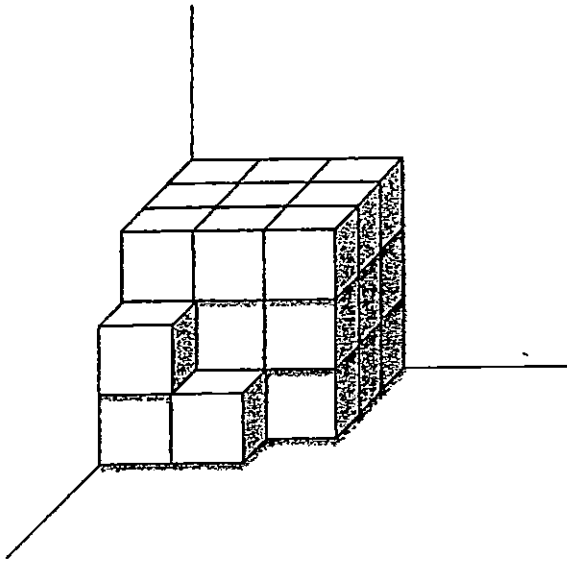
Ans: _____ cm³

27. The sum of two numbers is 102. The difference between the two numbers is 32. Find the larger number.

Ans: _____

28. Abigail is thrice as old as her daughter and 3 years younger than her husband. How old is her daughter in 3 years' time if her husband is 30 years old now?

Ans: _____

6
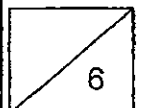
29. How many more triangles must be shaded such that $\frac{3}{4}$ of the figure is shaded?
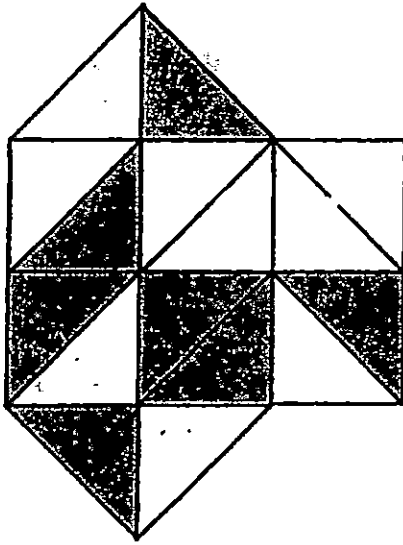
Ans: _____

30. $\frac{3}{4}$ of David's money is equal to $\frac{4}{7}$ of Calvin's money. Calvin has $30 more than David. How much money does David have?

Ans: $ _____

-End of paper-
Check your work thoroughly.
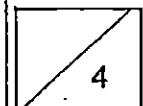
5

4

SINGAPORE CHINESE GIRLS' SCHOOL

FIRST SEMESTRAL ASSESSMENT 2015

PRIMARY 5

MATHEMATICS

PAPER 2

Name : _____ (   )

Class : Primary 5 SY/C/G/SE/P

Paper 2	Mark	Max Mark	Parent's Signature
		60	

18 Questions
60 Marks

Total Time For Paper 2: 1 h 40 min

INSTRUCTIONS TO CANDIDATES

Do not open this booklet until you are told to do so.
Follow all instructions carefully.
Answer all questions.

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

Do not write in this column

1. Mrs Chew made 576 cookies. She packs them into packets of 30 and gives the rest away to the neighbour. How many cookies does she give to the neighbour?

Ans: _____

2. Jamie and Charlene had $32.80 altogether. Jamie has 3 times as much money as Charlene. How much money did Jamie have?

Ans: $ _____

3. An orange and a pear cost $1.15. An orange and an apple cost $1.35. Peter bought 4 oranges, 2 apples and 1 pear for $4.30. How much does a pear cost?

Ans: $ _____

6
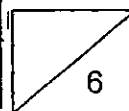
4. The figure below, not drawn to scale, is made up of rectangle AFBG, triangle ABC and triangle ADE. The lines AG and GC have the same length. Given that the ratio of the area of triangle ABC to the area of triangle ADE is 3 : 7, what fraction of the figure is shaded?
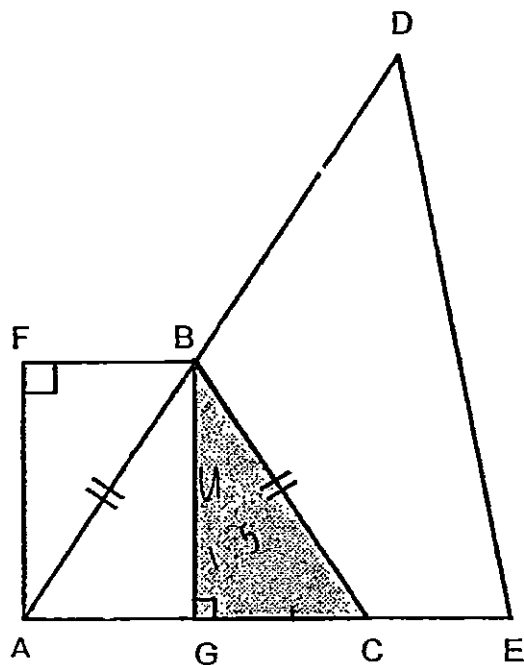
Ans: _____

5. A shelf can hold 32 magazines or 44 encyclopedias. There are 10 magazines and 22 encyclopedias placed on the shelf. How many more magazines can be placed on the shelf for it to be fully occupied?

Ans: _____
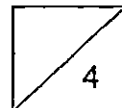
4

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.

Do not write in this column

(50 marks)

6. Wendy is twice as old as Vivien. Vivien was $\frac{1}{4}$ as old as Wendy 10 years ago.

   How old is Wendy in 5 years' time?

   Ans: _____ [3]

7. There are 50 3-legged chairs and 4-legged chairs in the hall. There are 178 legs in total. How many 3 legged-chairs are there?

   Ans: _____ [3]

6

8. In the figure below, not drawn to scale, length AB is equal to length AC. M is the midpoint of AC. The length of Square Y is twice the length of Square X. Given that the area of Square X is 64 cm^2, find the area of the shaded figure.
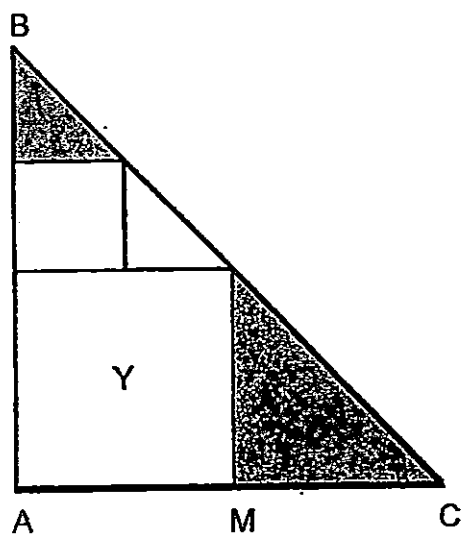
Ans: _____ [3]

9. A 9-cm metal cube is melted and formed into 27 cubes. What is the length of each side of the new cubes?

Ans: _____ [3]

6

4

10. Study the pattern below.

Number of dots				
Figure Number	1	2	3	4

a) How many dots are there in Figure 10? (1 mark)
b) Which figure is made up of 58 dots? (2 marks)

Ans: a) _____ [1]

b) _____ [2]

3
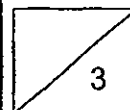
11. Miss Phua saved some 20-cent coins and 50-cent coins in the ratio of 3 : 4 in a box. She then decided to replace $\frac{1}{3}$ of the 20-cent coins with the same number of 50-cent coins. The value of the amount she saved increased by $4.50. How much money was there in the box at first?

Ans: _____ [4]

12. Wendy had $\frac{1}{2}$ as much money as Xue Ting. After Wendy spent $30 while Xue Ting received $30, Xue Ting had seven times as much as Wendy. How much money did Wendy have at first?

Ans: _____ [4]

8
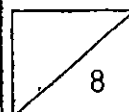
13. Jonathan and Kenneth shared a sum of money in the ratio of 3 : 4. After Jonathan spent $\frac{1}{6}$ of his money and Kenneth spent $15 of his money, both Jonathan and Kenneth had the same amount of money left. How much money did they have at first?

Ans: _____ [4]

14. Peter, James and Samuel shared some stamps. The number of stamps Peter had was $\frac{1}{3}$ of the number of stamps Samuel had. Samuel had twice as many stamps as James. Samuel had 30 more stamps than James. How many stamps did they have altogether?

Ans: _____ [4]

8

7
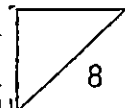
15. The graph below shows the number of pets each household has among 800 households.
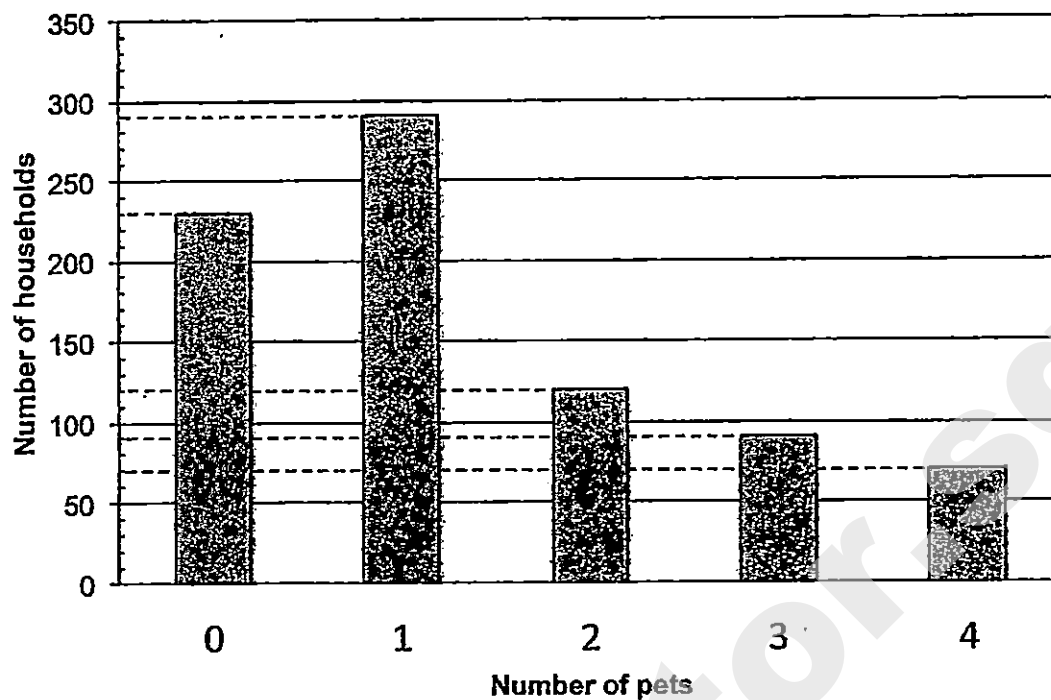
a) Express the number of households with 2 pets as a fraction of the total number of households.

b) Find the total number of pets among all the households.

Ans: a) _____ [2]

   b) _____ [2]

4
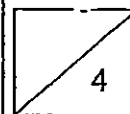
16. At the supermarket, Elycia spent $\frac{1}{5}$ and an additional \$2 on potato chips. She used $\frac{2}{3}$ of the remaining money to buy some drinks and received a change of \$8. Given that she had \$18 left, how much did she have at first?

Ans: _____ [5]
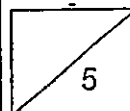
17. There is an equal number of girls in Primary 5A and in Primary 5B. $\frac{3}{4}$ of the pupils in 5A are girls while $\frac{1}{5}$ of the pupils in 5B are boys. Given that there is a total of 14 boys in both classes, how many more girls than boys are there altogether?

Ans: _____ [5]
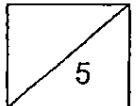
18. The figure below shows a piece of paper folded twice along the dotted lines shown below. Given that the breadth of the paper is $\frac{4}{7}$ of the length of the paper and the perimeter of the paper is 110cm, find the ratio of the area of the unfolded paper in the beginning to the area of the folded paper in the end. Give your answer in the simplest form.

A   B   C
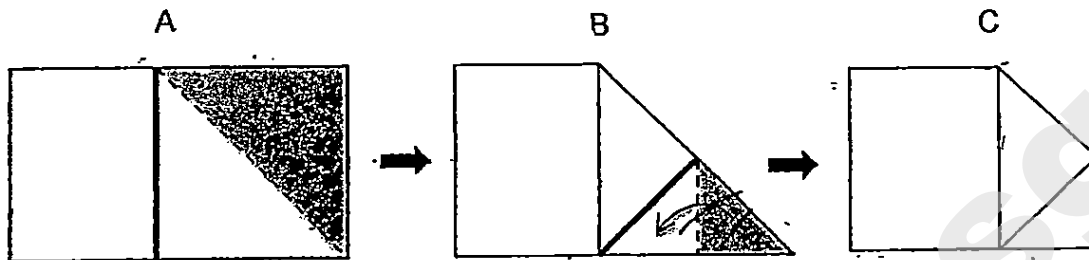
Ans: _____ [5]
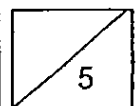
LEVEL : **PRIMARY 5**
SCHOOL : **SINGAPORE CHINESE GIRLS' SCHOOL**
SUBJECT : **MATHEMATICS**
TERM : **SA1**

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

Q16. ⅗   Q17. 16:1   Q18. 0.43   Q19. 5.66

Q20. $\frac{5}{9}$ Q21 1.04   Q22. 150cm³   Q23 60cm² 8 x 15 ÷ 2 = 120÷2=60

Q24. $2\frac{4}{15}$ Q25. 27 32 – 5 = 27

Q26. 240cm³
Big cube➔ L X B X H 6 x 26 x 6 = 216
1 small cube ➔ 2 x 2 x 2= 8
3 small cubes ➔8x3=24
Total ➔216 +24=240

Q27. 67➔ 2u ➔102 – 32 = 70, 1u ➔70 ÷ 2 = 35, B ➔35 + 332 = 67

Q28. 12 ➔3u 30-3 = 27, 1u➔ 27÷3=9, 3 years' time ➔ a+3 = 12

Q29. 5 ➔16 ÷4 x 3 = 4 x 3= 12, more ➔ 12 – 7 = 5

Q30. 96
5u➔ 30
1u➔ 30÷5+6
16u➔ 16 x 6 = 96

Q1. 6
576 ÷30 = 19⅕ = 19.2, 30 x 19 = 570
Remainder ➔576 – 570 = 6

Q2. $24.60
4u = $32.80
1u = $8.20
Jamie, 3u = $8.20 x 3 = $24.60

1 orange + 1 pear = $1.15
1 orange + 1 apple = $1.35
2 oranges + 2 apples = $1.35 x 2 = $2.70
3 oranges + 2 apples + 1 pear = $2.70 + $1.15 = $3.85
4 oranges + 2 apples + 1 pear = $4.30
1 orange = $4.30 - $3.85 = $0.45
1 pear➔ $1.15 - $0.45 = $0.70

Q4. $\frac{3}{17}$
ABC : ADE
3 : 7
6 : 14
ΔABC = 6units, Δ GBC = 3 units
$\frac{shaded}{total} = \frac{3}{17}$
Total – 3u +3u+3u+8u = 17u

Q5. 6
10 + 16 = 26 magazines
32 – 26 = 6

Q6. 35 years
6u – 4u = 2u
3u – 1u = 2u
2u = 10
1u = 10÷2=5
Wendy now ➔6 x 5= 30
Wendy 5 years time ➔30 + 5 = 35

Q7. 22
Assume all are 4 legged chairs
Total ➔50 x 4 = 200 legs
Extra ➔200 – 178 = 22
Difference ➔– 4 – 3 = 1
No. of 3 legged chairs – 22 – 1 = 22

Q8. 160cm²
Area of B - ½ x 16 x 16 = 128cm²
Area of A - ½ x 8 x 8 = 32cm²
Area of shaded – A+B = 128 + 32 = 160cm²

Q9. 3cm
Volume of 9 cm cube – 9 x 9x 9 = 729cm³
Volume of each new cube – 729 ÷ 27 = 27
27 = 3 x 3 x3

Q10a. 22
Pattern : 2 + (Figure number x 2)
Figure 10 ➔ 2 + (10 x 2) = 2+20=22

Q10b. Figure 28
2 + (fig no. x 2) = 58
58 – 2 = 56
56 ÷ 2 = 28

Q11. $39
No. of 20 cent coins – 15 x 3 = 45
Value of 20 cent coins – 45 x $0.20 = $9
No. of 50 cent coins – 15 x 4 = 60
Value of 50 cent coins – 60 x 0.50 = $30
Total value – $9 +$30 = $39

Q12. $48
8u – 3u = 5u
21u – 16u =5u
5u = $30
1u = $30 ÷ 5 = 46
Wendy at first, 8u = 8 x $6=$48

Q13. $70
3u ➔ $15
1u = $15÷3= $5
At first, 14u = 14 x 5= $70

Q14. 110
56 – 3=3u
3u = 30
1u = 30÷3=10, Total, 11u = 11 x 10 = 110

Q15a. $\frac{3}{20}$
Total – 230 +290+120+90+70 = 800
$\frac{120}{800} = \frac{3}{20}$

Q15b. 1080
(290 x 1) + (120 x 2) + (90 x 3) + (70 x 4)
= 290 + 240+270+280 = 1080

Q16. $40
1 part = $18 -$8 = $10
3 parts = $10 x 3 = $30
4 units = $30 + 2= $32
1 unit = $32 ÷ 4 = $8
At first, 5u = $8 x 5 = 40

Q17. 34
4u + 3u = 7u
7u = 14
1u = 14 ÷ 7 = 2
Girls – 12u +12=24u
Difference– 24u -7u = 17u
17u = 17 x 2 = 34

Q18. 14:9
Area of B = Big Δ — small shaded Δ
Area of big Δ — ½ x 20 x 20 = 200cm
Area of small shaded Δ — ½ x 10 x $10 = 50cm$
Area of B – 200cm – 50cm = 150cm
Area of folded – A+B = 300+150 =450cm²
Area of unfolded - 35 cm x 20cm = 700cm²
unfolded :   folded
700   :   450
14   :   9

THE END

PRIMARY 5 MID-YEAR EXAMINATION 2015

Name : _____ (   )   Date: <u>18 May 2015</u>

Class : Primary 5 (   )   Time: <u>8.00 a.m. - 8.50 a.m.</u>

Parent's Signature : _____   Marks: ___ ___ **/ 100**

Paper 1 comprises 2 booklets, A and B.

MATHEMATICS

PAPER 1

(BOOKLET A)

20

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. In 879 425, the digit 7 stands for _____.

    (1) 700
    (2) 7000
    (3) 70 000
    (4) 700 000

2. 600 000 + 8000 + 50 + 1 = _____

    (1) 680 501
    (2) 680 051
    (3) 608 501
    (4) 608 051

3. A number when rounded to the nearest thousand is 200 000.
    Which one of the following is that number?

    (1) 184 000
    (2) 129 500
    (3) 199 500
    (4) 200 900

4. Find the value of $900 \div 25 + 5 \times 10$.

    (1)   300

    (2)   86

    (3)   3

    (4)   410

5. Find the value of $\frac{2}{3} + \frac{1}{7}$.

    (1) $\frac{2}{21}$

    (2) $\frac{3}{21}$

    (3) $\frac{13}{21}$

    (4) $\frac{17}{21}$

6. 40 tenths + 15 hundredths = _____

    (1)   0.415

    (2)   0.55

    (3)   4.015

    (4)   4.15

7. AB and CD are straight lines. Find ∠y.
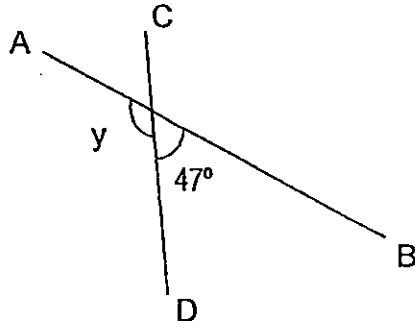
- (1) 43°
- (2) 133°
- (3) 137°
- (4) 143°

8. 215 minutes is equal to _____.

- (1) 3 h 35 min
- (2) 3 h 15 min
- (3) 2 h 35 min
- (4) 2 h 15 min

9. Arrange the following fractions from the smallest to the largest.

$$\frac{6}{5} \quad , \quad \frac{11}{10} \quad , \quad 1\frac{1}{7}$$

- (1) $\frac{6}{5}$, $1\frac{1}{7}$, $\frac{11}{10}$
- (2) $\frac{11}{10}$, $\frac{6}{5}$, $1\frac{1}{7}$
- (3) $\frac{11}{10}$, $1\frac{1}{7}$, $\frac{6}{5}$
- (4) $1\frac{1}{7}$, $\frac{11}{10}$, $\frac{6}{5}$

3

10. 105 × 20 is the same as _____ × 100

    (1)   21
    (2)   30
    (3)   210
    (4)   300

11. Siti had 20 more stickers than May.

After May gave 8 stickers to Siti, Siti had 3 times as many stickers as May.

How many stickers did May have in the end?

    (1)   14
    (2)   18
    (3)   26
    (4)   36

12. Faizal had $\frac{4}{5}$ kg of rice. He cooked $\frac{2}{3}$ of it. How much rice had he left?

    (1) $\frac{2}{15}$ kg

    (2) $\frac{4}{15}$ kg

    (3) $\frac{7}{15}$ kg

    (4) $\frac{8}{15}$ kg

4

13. In the figure, A and B are squares and X is a right-angled triangle.
The area of Square A is 64 cm² and the area of Square B is 36 cm².
What is the total area of the figure?
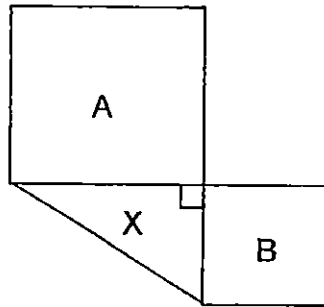
(1) 24 cm²
(2) 48 cm²
(3) 124 cm²
(4) 148 cm²

14. Sally bought the same number of pens and files with $260. Each pen cost $4
and each file cost $6. How many pens did she buy?

(1) 13
(2) 26
(3) 52
(4) 130

15. Complete the number pattern.

8 500 , 6 000 , 7 000 , 4 500 , 5 500 , _____

    (1)   3 000
    (2)   3 500
    (3)   6 500
    (4)   8 000

PRIMARY 5 MID-YEAR EXAMINATION 2015

Name : _____ ( )   Date: 18 May 2015

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)

20

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. Write 7 309 012 in words.

Ans: _____

17. In 9 726 354, the digit 6 is in the _____ place.

Ans: _____

18. Arrange the following digits to form the **smallest 4-digit even** number. Each digit can be used only once.

4 , 5 , 0 , 9

Ans: _____

19.   33 000   60 = _____

Ans: _____

20.   Divide 86 by 7. Give your answer as a mixed number in its simplest form.

Ans: _____

21.   Find the value of $\frac{5}{8} \div 15$. Give your answer in its simplest form.

Ans: _____

22. Name the height of Triangle ABC if AC is the base.

Ans: _____
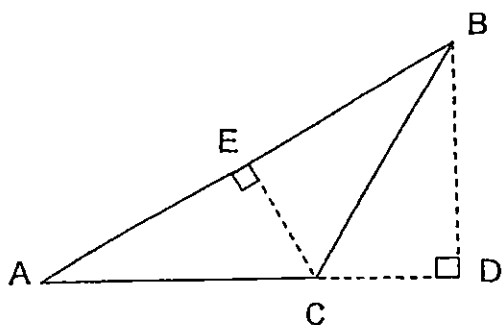
23. The figure below is not drawn to scale. AB is perpendicular to CD. ∠x is twice the size of ∠y. Find ∠y.
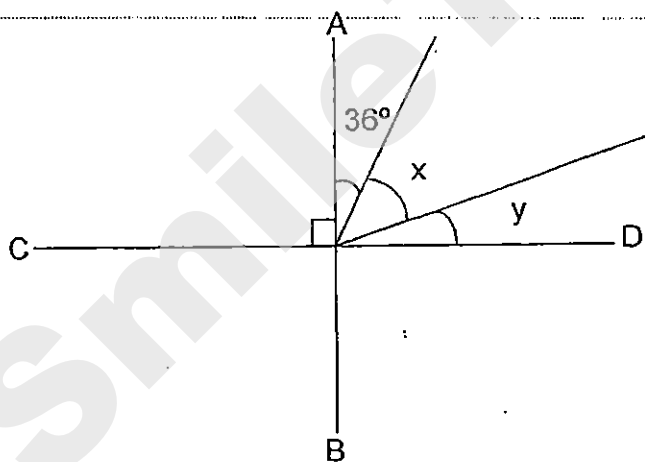
Ans: _____ °

24. $0.36 \times 5 = $ _____

Ans: _____

25. Marcus is standing in the middle of the school field. If he turns 225° anti-clockwise, he will be facing the police station. Where is Marcus facing now?
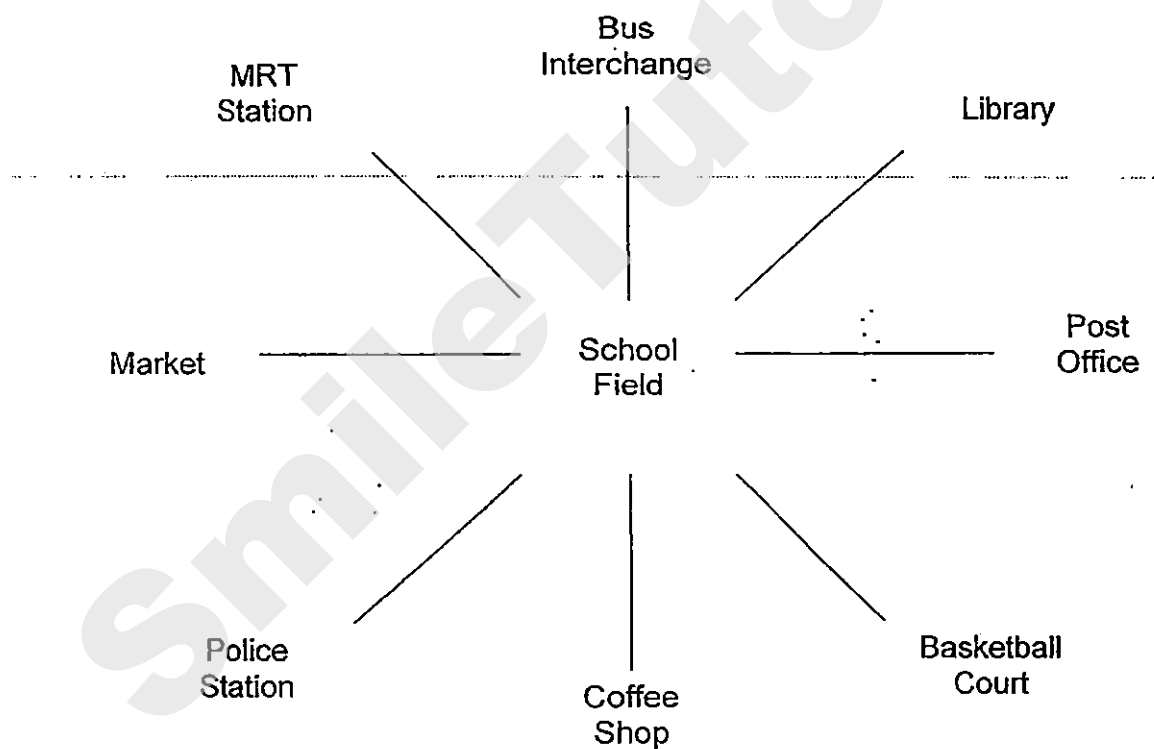
Ans: _____

4

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. 860 pupils are going to the zoo. How many buses are needed if each bus can carry only 40 passengers?

Ans: _____

27. Auntie Lili bought 4 kg of grapes at $5 per kilogram and 3 kg of longans for $9. How much did she pay altogether?

Ans: $_____

28. Devi has 3 more fifty-cent coins than twenty-cent coins. The total value of all her coins is $9.90. How many twenty-cent coins does she have?

Ans: _____

5

29. $36 + \dfrac{1}{2} + \dfrac{7}{10} + \dfrac{3}{1000} =$ _____. Give your answer in decimal.

Ans: _____

30.   The height of the triangle is 12 cm. The base is thrice as long as its height. Find the area of the triangle.

Ans: _____cm²

END OF PAPER

PRIMARY 5 MID-YEAR EXAMINATION 2015

Name : _____(   )   Date: 18 May 2015

Class : Primary 5 (   )   Time: 10.00 a.m. – 11.40 a.m.

Parent's Signature : _____

MATHEMATICS

PAPER 2

60

INSTRUCTIONS TO CANDIDATE

1. Write your name, class and register no.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Show your working clearly as marks are awarded for correct working.
6. You are allowed to use a calculator.

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. The product of two numbers is 7654. One of the numbers is 86.

   What is the sum of the two numbers?

   Ans: _____

2. $\angle$ ABC is 165°. Draw the angle and label it.

C

A   B

1
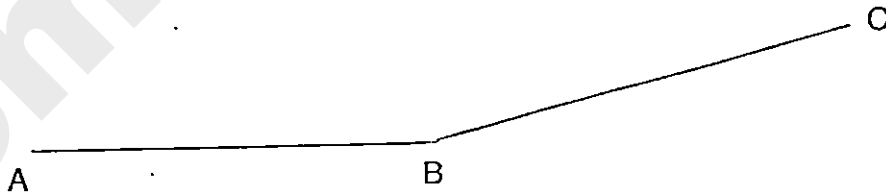
3. The figure below is made up of identical squares.
   What is the perimeter of the figure?

12 cm
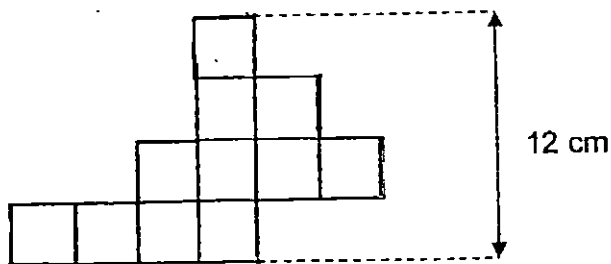
Ans: _____ cm

4. A tank was $\frac{1}{3}$-filled with water. After adding another 1500 ml of water, the tank became $\frac{3}{4}$-filled. How much water could the tank hold when it was completely filled with water?

Ans: _____ ml

2

5. In the school hall, pupils were arranged to stand in rows with the same number of pupils in each row. From where Victoria was standing, there were 6 pupils to her left and 7 pupils to her right. There was 1 row of pupils in front of her and 8 rows of pupils behind her. How many pupils were there in the school hall?

Ans: _____

3

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. Mrs Lee is 32 years old and her son is 8 years old. How old will her son be when Mrs Lee is 3 times as old as him?

Ans: _____ [3]

7. The cost of 6 similar bicycles and 5 similar skateboards was $4 347.
Each bicycle cost 3 times as much as each skateboard.
Muthu bought 1 bicycle and 1 skate board. How much did he spend?

Ans: _____ [3]

4

8. Alice and her 3 friends went cycling at Pasir Ris Park. They rented 4 bicycles and the rental charges for each bicycle were as follow:

First hour	$3.50
Every additional hour or part thereof	$2

The 4 girls cycled from 9.30 a.m. to 11 a.m. How much did they pay altogether?

Ans: _____ [3]

9. Ming Jun and Laila had the same amount of money at first.

Ming Jun spent $\frac{1}{4}$ of his money and Laila spent $\frac{3}{5}$ of her money.

Ming Jun then had $49 more than Laila. How much did each of them have at first?

_____ [3]

5

10. Pencils are sold at the prices as shown in the given pictures.

Cost: $1.10   Cost : $5.20   Cost: $10.00
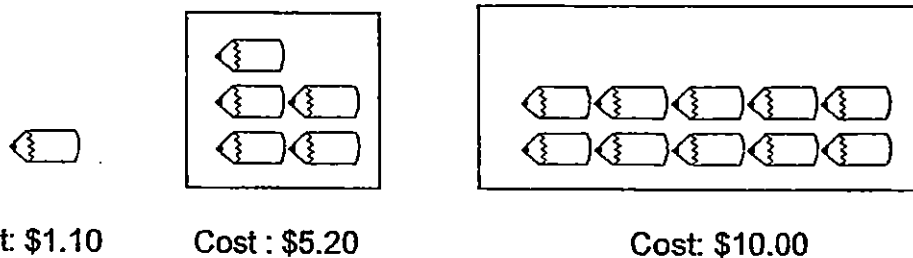
What is the minimum amount of money Mrs Tan has to pay for 67 pencils?

Ans: _____ [3]

---

11. Rita has a rectangular piece of paper. She folded the paper as shown below. Find $\angle y$. (The diagram is not drawn to scale.)
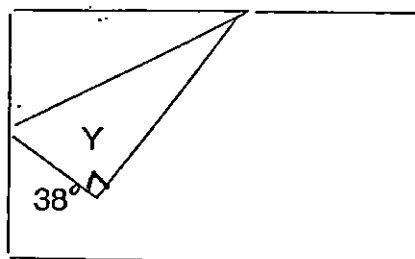
Ans: _____ [3]

12. The figure shows a rectangular grass patch and a footpath surrounding it.
The length of the grass patch is $8\frac{1}{3}$ m and its breadth is 6 m.

The width of the footpath is $\frac{1}{3}$ m. What is the area of the footpath?
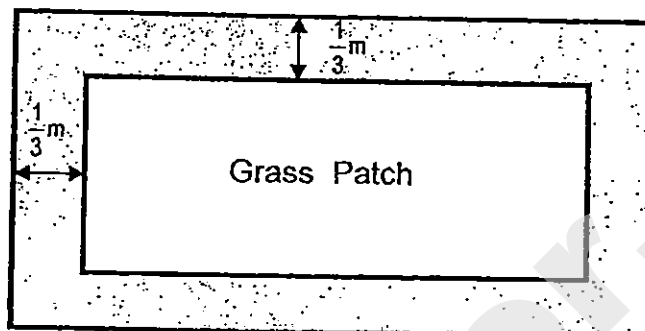
Ans: _____ [4]

13. The figure is made up of a rectangle, BCEF, a right-angled triangle, CDE and a square ABFG. Length FG is $\frac{1}{2}$ the length EF. Find the area of the figure.
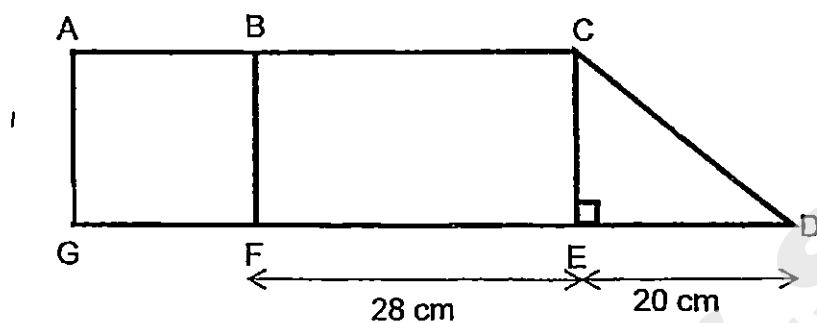
Ans: _____ [4]

14. Su Lin is training for a running event.
    For each day after the first day, she ran 100 m more than the previous day.
    At the end of 10 days, she ran a total of 9 500 m.
    How far did she run on the first day?

Ans: _____ [4]

15. Ahad bought some chicken pies.
    He bought them in packets of 15 and each packet cost $4.
    He sold each pie for 80 cents. He sold a total of 6 385 pies.
    (a) What was the least number of packets of chicken pies he bought?
    (b) How much money did he make after he sold 6 385 pies?

Ans: (a)_____[2]

(b)_____[3]

10

16. Eugene bought a sack of flour.

He gave $\frac{1}{3}$ of it to his brother and 5 kg to his sister.

He then gave $\frac{3}{8}$ of the remainder to his mother and had 15 kg of flour left.

What was the mass of the sack of flour at first?

Ans: _____[5]

17. At a carpark, there was a total of 2 617 vehicles.
The number of lorries was 353 less than the number of vans
but 562 more than the total number of cars and motorcycles.
The motorcycles and cars had 1 150 wheels altogether.
How many cars were there in the carpark?

Ans: _____ [5]

12

18. Study the table below.

Row 1			1	2	3
Row 2	6	5	4		
Row 3			7	8	9
Row 4	12	11	10		
Row 5			13	14	15
Row 6	18	17	16		
Row 7			19	20	21
Row 8	24	23	22		
.					
.					
.					
Row 10					

(a) Complete Row 10 in the table.

(b) In which row will you find the numbers 91, 98, and 99 ?

(c) Find the sum of the 3 numbers in the Row 100

Ans: (a)   [1]

(b)   Row_____[2]

(c)   _____ [2]

END OF PAPER

13

EXAM PAPER 2015
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
3	4	3	2	4	4	2	1	3	1	1	2	3	2	1

Q16   Seven millions, three hundred and nine thousand and twelve

Q17   thousands

Q18   4590

Q19   550

Q20 $12\frac{2}{7}$

Q21 $\frac{1}{24}$

Q22   BD

Q23   18°

Q24   1.80

Q25   Post office

Q26   22 buses

Q27 $29

Q28   12

Q29   37.203

Q30   216 cm²

Q1 $7654 \div 86 = 89$
$89 + 86 = \mathbf{175}$

Q2
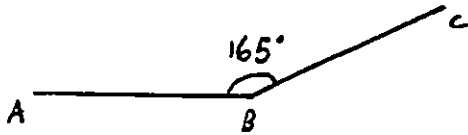
Q3 $12 \div 4 = 3$
$3 \times 20 = \mathbf{60}$

Q4 $\frac{1}{3} = \frac{4}{12}$

$\frac{3}{4} = \frac{9}{12}$

$\frac{9}{12} - \frac{4}{12} = \frac{5}{12}$

$1500 \div 5 = 300$
$300 \times 12 = \mathbf{3600}$

Q5 $6 + 7 + 1 = 14$
$8 + 1 + 1 = 10$
$10 \times 14 = \mathbf{140}$

Q6 $32 - 8 = 24$
$24 \div 2 = 12$
$12 \times 3 = 36$
$36 - 32 = 4$
$4 + 8 = \mathbf{12}$

Q7 $4347 \div 23 = 189$
$189 \times 4 = \mathbf{756}$

Q8 $\$3.50 + \$2 = \$5.50$
$\$5.50 \times 4 = \mathbf{\$22}$

Q9 $\frac{1}{4} = \frac{5}{20}$ (spent)

$\frac{15}{20}$ (left)

$\frac{3}{5} = \frac{12}{20}$ (spent)

$\frac{8}{20}$ (left)

$15 - 8 = 7$
$49 \div 7 = 7$
$7 \times 20 = \mathbf{140}$

Q10 $6 \times \$10 = \$60$
$2 \times \$1.10 = \$2.20$
$\$60 + \$2.20 + \$5.20 = \mathbf{\$67.40}$

Q11 $180° - 38° = 142°$
$142° \div 2 = \mathbf{71°}$

Q12 $\frac{1}{3} \times 2 = \frac{2}{3}$

$8\frac{1}{3} + \frac{2}{3} = 9$

$6 + \frac{2}{3} = 6\frac{2}{3}$

$6\frac{2}{3} \times 9 = 60$

$8\frac{1}{3} \times 6 = 50$

$60 - 50 = \mathbf{10}$

Q13 $28 \div 2 = 14$
$14 \times 14 = 196$
$14 \times 28 = 392$
$\frac{1}{2} \times 20 \times 14 = 140$
$140 + 392 = 532$
$532 + 196 = \mathbf{728}$

Q14 $45 \times 100 = 4500$
$9500 - 4500 = 5000$
$5000 \div 10 = \mathbf{500}$

Q15 (a) $6385 \div 15 = 425R10$
$425 + 1 = \mathbf{426}$

(b) $6385 \times 0.80 = 5108$
$426 \times 4 = 1704$
$5108 - 1704 = \mathbf{3404}$

Q16 $8 - 3 = 5$
$15 \div 5 = 3$
$3 \times 8 = 24$
$24 + 5 = 29$
$29 \div 2 = 14.5$
$14.5 \times 3 = \mathbf{43.5}$

Q17 $562 \times 2 = 1124$
$1124 + 353 = 1477$
$2627 - 1477 = 1140$
$1140 \div 3 = 380$
$380 \times 2 = 760$
$1150 - 760 = 390$
$4 - 2 = 2$
$390 \div 2 = \mathbf{195}$

Q18 (a) 30 ; 29, 38
(b) $97 + 2 = 99$
$99 \div 3 = 33$
(c) $100 \times 3 = 300$
$300 - 1 = 299$
$299 - 1 = 298$
$298 + 300 + 298 = \mathbf{897}$

NAN HUA PRIMARY SCHOOL
CONTINUAL ASSESSMENT 2 – 2015
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

<u>INSTRUCTION TO CANDIDATES</u>

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 <u>not allowed</u> to use the calculator for Paper 1.

Marks Obtained

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

Name : _____   (   )

Class : 5_____

Date : 19 Aug 2015   Parent's Signature:_____

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

(20 marks)

1. Round off 543 090 to the nearest thousand.

   (1) 500 000
   (2) 540 000
   (3) 543 000
   (4) 544 000

2. Express 2030 cm in metres.

   (1) 2.3 m
   (2) 2.03 m
   (3) 20.3 m
   (4) 203 m

3. In the number line below, what is a possible value of X as indicated by the arrow?
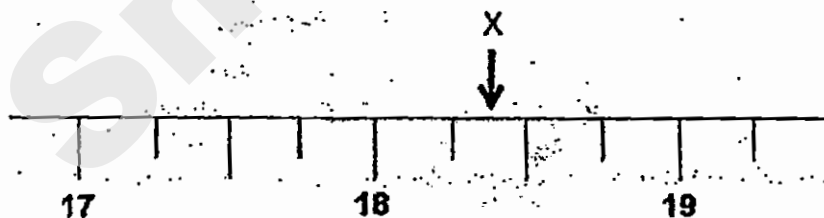
   (1) 18.15
   (2) 18.20
   (3) 18.35
   (4) 18.50

1

4. The value of 1.11 × 80 is _____.

    (1)   8.88

    (2)   88.8

    (3)   888

    (4)   8880

5. Express $2\dfrac{3}{4}$ as a decimal and round it off to 1 decimal place.

    (1)   2.3

    (2)   2.4

    (3)   2.7

    (4)   2.8

6. There were 56 beads in a box. 7 of them were red beads while the rest of them were green beads. What is the ratio of red beads to green beads to the total number of beads in simplest form?

    (1)   1 : 7 : 8

    (2)   1 : 7 : 9

    (3)   7 : 1 : 9

    (4)   8 : 7 : 1

7. Marie had $100. She spent $15 on some books and $25 on clothes. What percentage of her money did she have left?

    (1)   10%

    (2)   40%

    (3)   60%

    (4)   90%

8. Which of the following **cannot** be the height of triangle PRS?
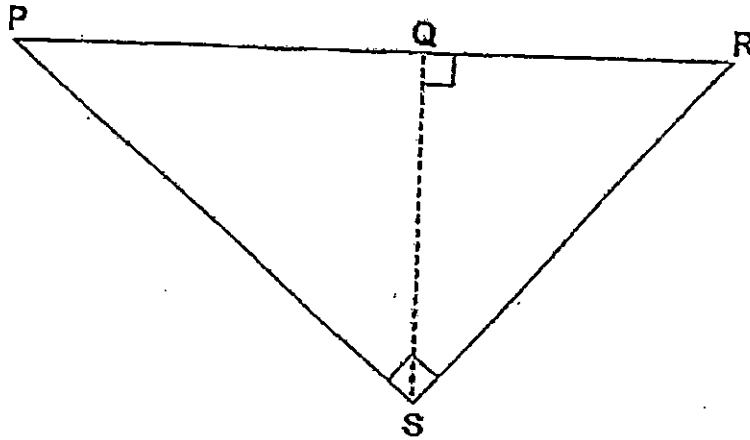
(1) PR

(2) SR

(3) PS

(4) QS

9. What is 30 minutes expressed as a percentage of 2 hours?

(1) 15%

(2) 25%

(3) 60%

(4) 90%

10. Ahmad is facing West now. He makes a $\frac{3}{4}$ turn in the clockwise direction. In which direction will he be facing in the end?

(1) North

(2) South

(3) North-East

(4) South-East
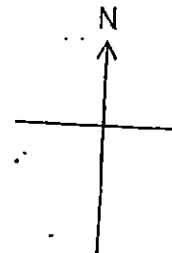
11. The figure below is made up of two identical squares ABEF and BCDE. Given that AB = 10 cm, what is the area of all the shaded parts?
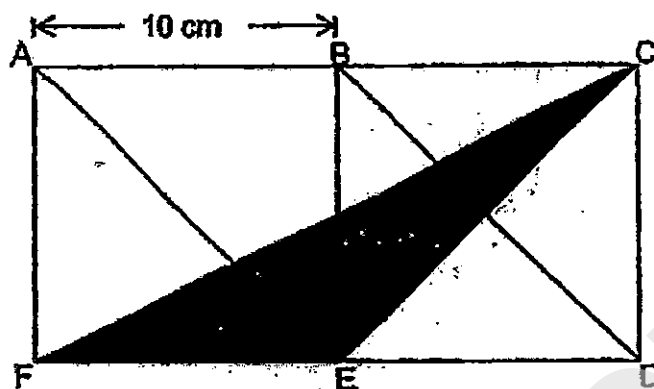
    (1)   25 cm²

    (2)   50 cm²

    (3)   75 cm²

    (4)   100 cm²

12. $\frac{2}{5}$ of a jug was filled with orange juice. The orange juice from the jug was then poured into an empty cup and $\frac{6}{7}$ of the cup was filled. What was the ratio of the capacity of the jug to the capacity of the cup?

    (1)   5 : 7

    (2)   7 : 5

    (3)   7 : 15

    (4)   15 : 7

13. The figure is made up of 1-cm cubes.
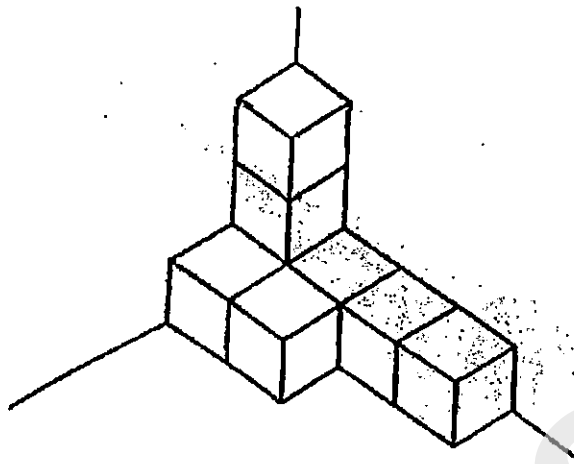
How many more cubes must be added to the figure to get a volume of 14 cm³?

(1) 5

(2) 6

(3) 7

(4) 8

14. A rectangular piece of paper is folded to form the shape below.
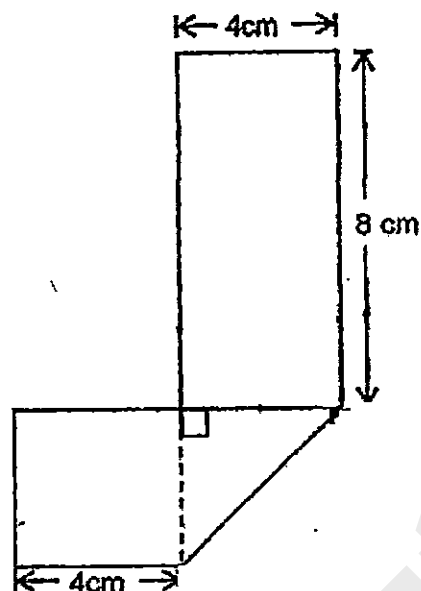
What is the area of the rectangular piece of paper before it was folded?

(1)   24 cm²

(2)   40 cm²

(3)   48 cm²

(4)   64 cm²

15. Mrs Tan baked some cookies. She gave 10 of them to her neighbour and kept $\frac{4}{9}$ of the remaining cookies in a jar. She found that she had 25 cookies left. Express the number of cookies kept in the jar as a fraction of the total number of cookies.

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

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

(3) $\frac{5}{7}$

(4) $\frac{7}{11}$

6

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

16.   Find the remainder of 725 ÷ 9?

Ans: _____

17.   Express $\frac{1}{5}$ kg in grams.

Ans: _____ g

18.   How many quarters are there in $5\frac{1}{2}$?

Ans: _____

19.   What is the missing number in the box?

50 × 26 = | ? | × 13

Ans: _____

7

20. What is the smallest whole number that does not leave a remainder when divided by 6 and 8?

Ans: _____

21. Extend the tessellation below by drawing 2 more unit shapes.
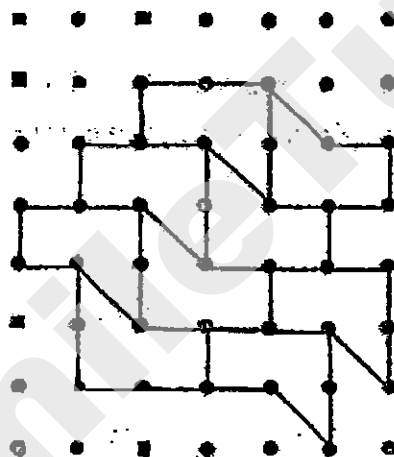
22. What is the missing fraction in the box below? Give your answer in the simplest form.

$$\frac{5}{8} \div 10 = \boxed{?}$$

Ans: _____

23. There are 12 red balloons and twice as many green balloons in a party.
If 10 green balloons are burst, find the ratio of the remaining number of green balloons to that of red balloons. Give your answer in the simplest form.

Ans: _____

24. Fill in the three boxes below with the numbers 3, 4 and 6, to give the largest possible answer to the expression. (Each number can only be used once.)

$$(\boxed{} + \boxed{}) \times \boxed{} = \text{Largest possible answer}$$

25. The figure below is made up of four identical squares. What is the perimeter of the figure?
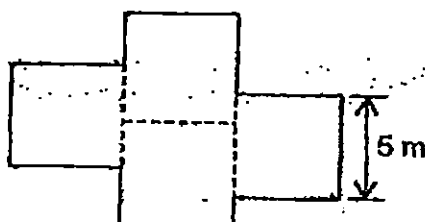
5 m

Ans: _____ m

9

Do not wr
in this spa

26. A container with a square base of side 20 cm, has a height of 21 cm. It is filled with water to a height of 19 cm. How much more water must be added to fill the container completely?

21 cm

19 cm

20 cm

20 cm
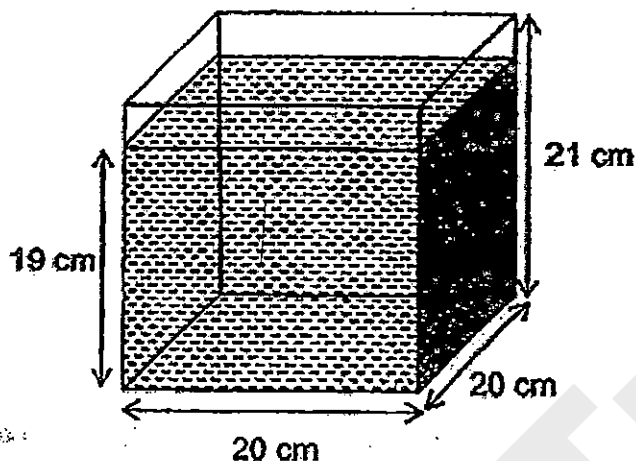
Ans: _____ cm^3

27. The diagram shows a rectangle ABCD, which is not drawn to scale. Find the value of $\angle a + \angle b$.

A
B
a
46° 14°

50° b
D 25°
C

Ans: _____ °

10
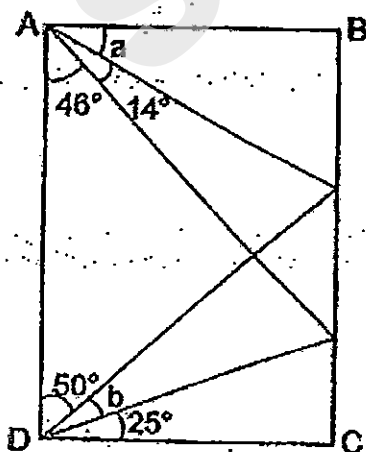
28. In Class 5M, $\frac{1}{2}$ of the number of boys is equal to $\frac{2}{3}$ of the number of girls in class. Find the ratio of the total number of girls to the total number of boys in the class.

Ans: _____

29. Mrs Bala placed some beans in a container. 24% of the beans are red, 28% of the beans are green and the rest are black. If there are 15 more black beans than green beans, how many beans are there in the container altogether?

Ans: _____

30. A storybook begins from page 1 to page 33. How many times does the digit '2' appear on all the page numbers?

Ans: _____

END OF PAPER 1

12

NAN HUA PRIMARY SCHOOL
CONTINUAL ASSESSMENT 2 – 2015
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

Name : _____ (   )

Class : 5_____

Date : 19 Aug 2015

Paper 2

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

(10 marks)

1. What fraction of the figure below is shaded? Give your answer in the simplest form.
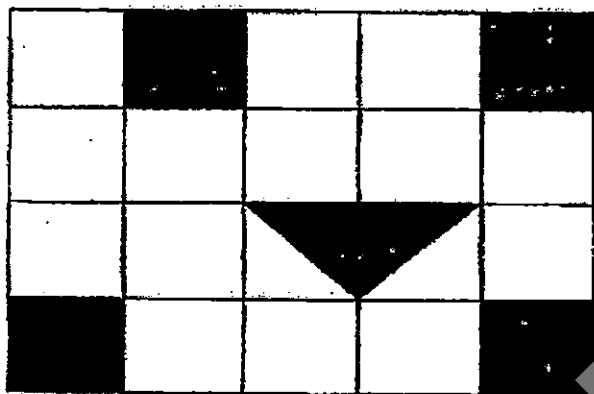
Ans: _____

2. Guo Liang paid $56 for some papayas. How many papayas did he buy?

Ans: _____

3. A cube has a base area of 64 m². Find its volume.

Ans: _____ m³

1

4. Mrs Toh had some eggs. She bought another 87 eggs and then distributed all the eggs equally onto 9 trays. In the end, there were 11 eggs on each tray. How many eggs had Mrs Toh at first?

Ans: _____

5. Mei Ling has the same number of 20¢ coins and 50¢ coins in her purse. The total value of all her coins is $7. How many coins does Mei Ling have altogether?

Ans: _____

2

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

(50 marks)

---

6. Muthu's height is $\frac{5}{6}$ of Carol's height. If Carol's height is 132 cm, what is Muthu's height?

   Ans: _____[3]

7. B represents a whole number. $\frac{1}{4}$ of B is lesser than twice of B by 42. What is the value of B?

   Ans: _____[3]

8. The diagram below, not drawn to scale, shows a square garden.
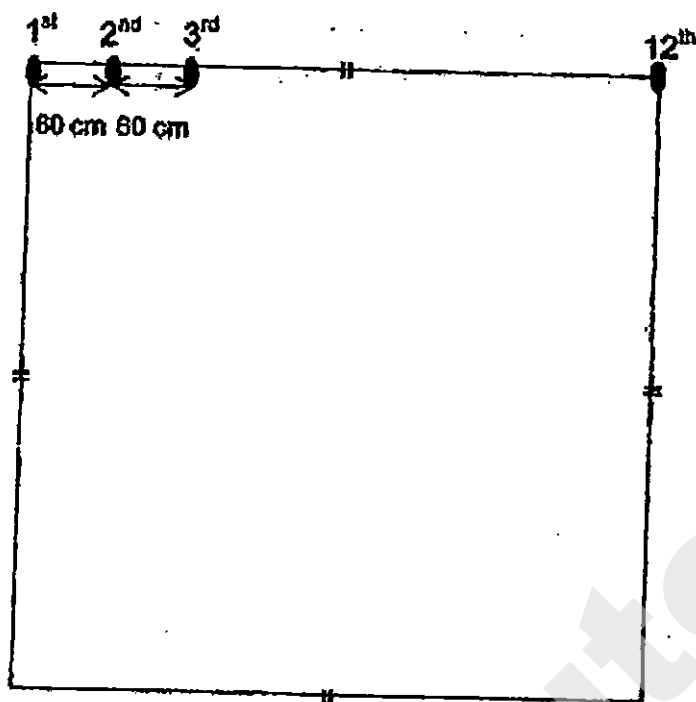
A gardener planted 12 sunflower seeds along one length of the garden. Each seed is 60 cm apart. Find the perimeter of the garden.

Ans: _____ [3]

9. Jolene bought some identical books and identical pens. Each book cost three times as much as a pen. She spent $\frac{2}{3}$ of her money on the pens and the remaining money on 2 books. How many pens did Jolene buy altogether?

Ans: _____ [3]

10. At a childcare centre, each child's body temperature was taken and recorded in the table below.

Body temperature (°C)	35	36	37	38
Number of children	4	9	12	5

(a) How many children had a temperature of more than 36°C?

(b) 5 children were sent home due to fever. What fraction of all the children remained in the centre? Give your answer in the simplest form.

Ans: (a) _____ [1]

(b) _____ [2]

5

11. Yannie poured some oil into a tank containing some water. As a result, the oil made up 24% of the mixture. If there were 19 litres of water, what was the total volume of liquid in the tank in the end?

Ans: _____ [3]

12. The graph below shows the number of stickers owned by 5 friends.
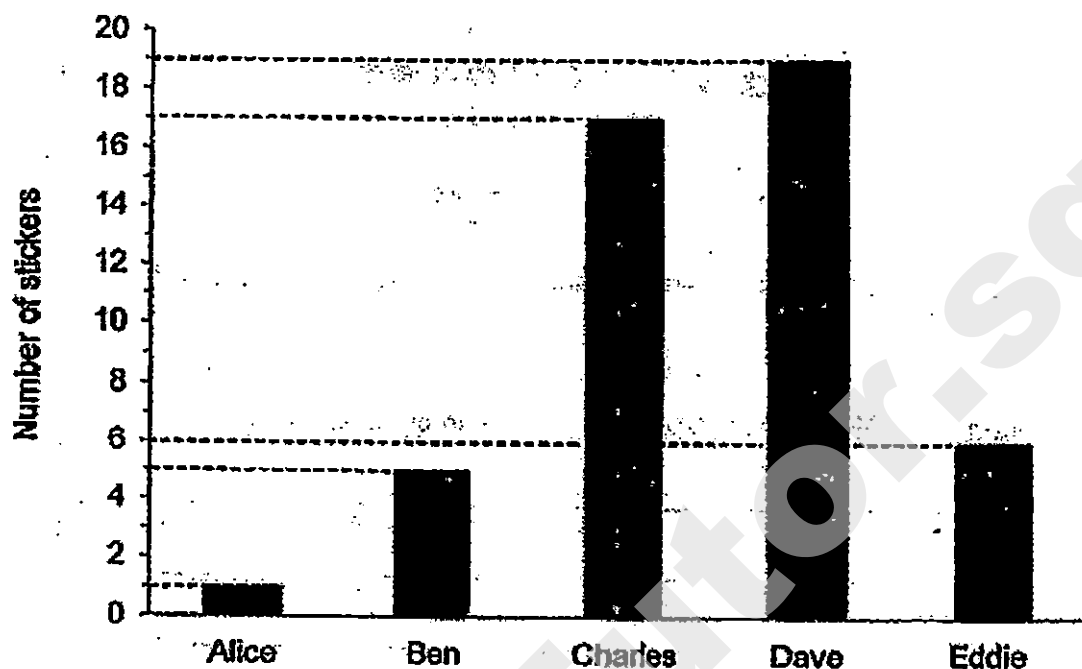
(a) What is the total number of stickers owned by the 5 friends?

(b) What percentage of all the stickers are owned by Eddie?
(Give your answer to the nearest whole number.)

Ans: (a) _____ [2]

(b) _____ [2]

7

13. The following figures are made up of black and white dots.
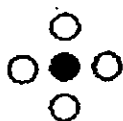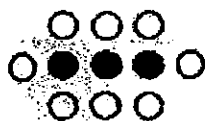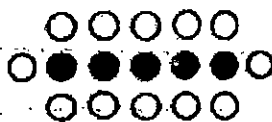
Pattern 1   Pattern 2   Pattern 3

(a) Study the pattern above carefully and fill in (i) and (ii) in the table below. [2]

Pattern number	Number of black dots	Number of white dots
1	1	4
2	3	8
3	5	12
⋮	⋮	⋮
6	(i)	(ii)

(b) In a certain pattern number, the difference between the number of white dots and the number of black dots is 19. Which pattern number is it?

Ans: _____ [2]

8

14. Sue made some cupcakes to give to some cousins.
If she gave 8 cupcakes to each cousin, she would have 4 cupcakes left.
If she gave 9 cupcakes to each cousin, she would need 11 more cupcakes.

(a) How many cousins did Sue have?

(b) How many cupcakes did Sue make?

Ans: (a) _____ [2]

(b) _____ [2]

9

15. Mr Siva bought a plate of chicken cutlet with $\frac{3}{8}$ of his money. He spent half of the remaining money on a glass of fruit juice.

(a) What fraction of his money did he spend on the glass of fruit juice?

(b) If Mr Siva had $5.25 left, how much did he have at first?

Ans: (a) _____ [2]

(b) _____ [3]
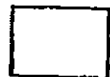
16. Kenny, Liling and Minah were each given the same number of funfair tickets to sell on Saturday. Kenny managed to sell all his tickets.
The ratio of the number of funfair tickets sold that day by Minah to Liling to Kenny was 4 : 7 : 8.

(a) Given that Minah had 84 tickets left, how many funfair tickets did Liling sell?

(b) What was the total number of funfair tickets given to the 3 children to sell?

Ans: (a) _____ [2]

(b) _____ [3]

17. The figure below is made up of a triangle overlapping a rectangle. The ratio of the shaded part to the unshaded part of the triangle is 3 : 8. The ratio of the shaded part to the unshaded part of the rectangle is 4 : 11. If the area of triangle is 484 m², what is the area of the figure?
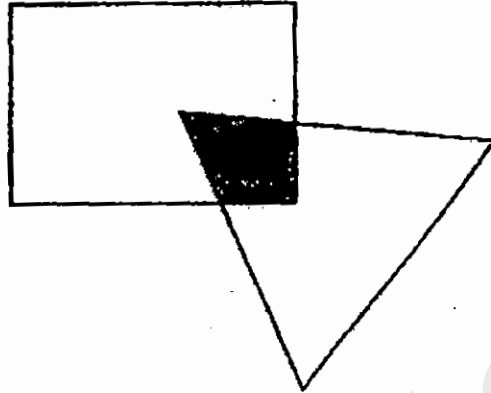
Ans: _____ [5]
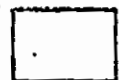
18. Rectangle PQRS is made up of identical 6 cm by 6 cm squares. PR is a straight line.
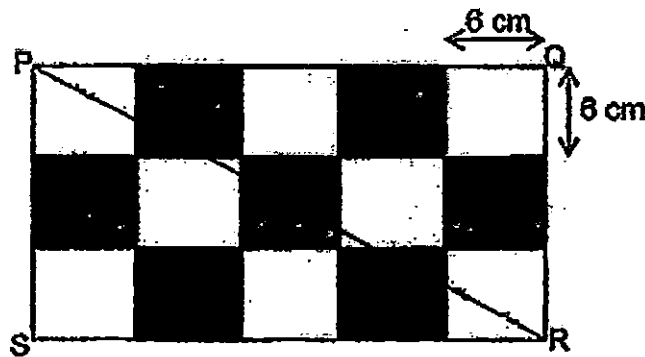
(a) Find the difference in area between the shaded and unshaded parts in triangle PQR.

(b) An equal number of shaded and unshaded squares are removed from rectangle PQRS. In the end, the ratio of the shaded area to the total remaining area is 2 : 5. Find the total removed area.

Ans: (a) _____ [2]

(b) _____ [3]

END OF PAPER 2

13

EXAM PAPER 2015

LEVEL   : PRIMARY 5
SCHOOL : NAN HUA PRIMARY
SUBJECT : MATHEMATICS
TERM   : CA2

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

Q16. 5   Q17. 200g   Q18. 22 $5\frac{1}{2} = 5\frac{2}{4}$, 5 x 4 +2=22

Q19. 100   Q20. 24 3 x 4 x 2 = 24   Q21. SEE PICTURE
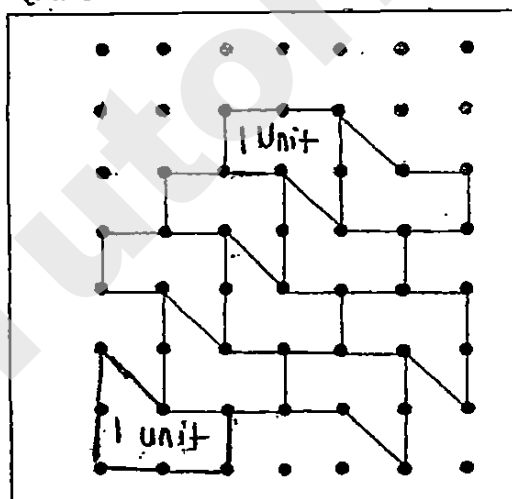
Q22. $\frac{1}{16}$ ➜ $\frac{5}{8} \div 10 = \frac{5}{8} \times \frac{1}{10} = \frac{1}{16}$

Q23. 7 : 6 ➜ 12 x 2 =24, 24 – 10 = 14, green : red, 14 : 12, 7 : 6

Q24. 3 + 4 x 6   Q25. 50m   Q26. 800cm³ ➜ 21 – 19 = 2, 2 x 20 x20= 800

Q27. 45°
$\angle a$ 90° – 45 – 14 = 90 – 60 = 30;
$\angle b$ 90 – 50 – 25 = 90 – 75 = 15
15 + 30 =45

Q28. 3:4
½ of boys = ⅔ of girls
$\frac{2}{4}$ of boys = ⅔ of girls
girls : boys
3 : 4

Q29. 75
24% ➜ red
28% ➜ green
48% ➜ black
48% - 28% = 20% (15 beans)   100% ➜15 x 5 = 75

Q1. ¼   Q2. 16 → $56 ÷ $7=8, 8 x 2 = 16

Q3. 512m³ → √64 = 8, 8 x 8x8 = 512

Q4. 12
9 X 11 = 99 (total no. of eggs in the end)
99 – 87 = 12 (eggs at first)

Q5. 20
20¢ + 50¢ = 70¢
$7 ÷ $0.70 = 10 (no. of 20¢ coins)
10 x 2 = 22 (no. of coins altogether)

Q6. 110cm → 132 ÷ 6 x 5 = 110

Q7. 24
42 ÷ 7 = 6 (¼ of B)
6 x 4 = 24 (value of B)

Q8. 2640cm
12 -1 = 11 (intervals)
11 x 60 =660 (one side)
660 x 4 = 2640 (perimeter)

Q9.12 pens
⅓ 6 pens
⅔ 12 pens

Q10a. 17 12 + 5 = 17
Q10b. ⅚ → Total no. of children (at first) 30 , after → 25, $\frac{25}{30} = \frac{5}{6}$

Q11. 25 litre
Water → 76%
76% → 19 litre
1% → 0.25 litre
100% → 0.25 litre x 100 = 25 litre

Q12a. 48
1+5+17+19+6=48

Q12b. 13%
$\frac{6}{48}$ = ⅛ = 0.125 = 12.5%
12.5% ≈13%

Page 2

Pattern number	Number of black dots	Number of white dots
1	1	4
2	3 ⟍+2	8 ⟍+4
3	5 ⟍+2	12 ⟍+4
⋮	⋮	⋮
6	(i) 11.	(ii) 24.

13

Q13b. Pattern 9
19 − 3 = 16, 16÷2=8, 8+1=9

Q14a. 5 cousins → (11+4) ÷(9-6)=5

Q14b. 34 → 5 x 6 +4=34

Q15a. $\frac{5}{16}$
$\frac{5}{8}$ x ½ = $\frac{5}{16}$

Q15b. $16.80
½R → $5.25
R → $5.25 x 2 = $10.50
⅝ → $10.50
⅛ → $2.10
$\frac{8}{8}$ → $2.10 x 8 = $16.80

Q16a. 147
8-4=4
4u → 84
1u → 21
7 u → 21 x 7 = 147 (no. of tickets Liling sold)

Q16b. 504
8 units → 147 + 21 = 168 (tickets given to one child)
given to all → 168 x 3 = 504

Q17. 847m²
Area of triangle → 32 + 12 = 44
484 ÷ 44 = 11
33+12+32=77 , 77 x 11 = 847

Q18a. 18cm²
Shaded 3:5units
Unshaded 4 units
6 x 6 x ½ = 18

Q18b. 360cm²
shaded →7 units (whole figure)
unshaded →8 units (whole figure)
5 units removed for shaded
5x 2 = 10 (units)
6 x6 = 36
36 x 10 =360

THE END

Anglo-Chinese School
(Junior)
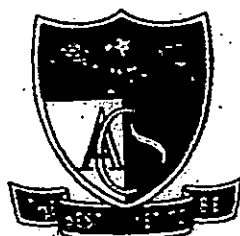
CONTINUAL ASSESSMENT 2 (2015)
PRIMARY 5
MATHEMATICS

Tuesday   25 August 2015   1 hour 30 min

INSTRUCTIONS TO PUPILS

DO NOT TURN OVER THE PAGES UNTIL YOU ARE TOLD TO DO SO

Follow all instructions carefully.

There are 24 questions in this booklet.

Answer ALL questions.

You are not allowed to use a calculator.

Name : _____ (   )

Class : 5.(   )

Parent's Signature:_____

Section	Possible Marks	Marks Obtained
A	10	
B	15	
C	25	
Total	50	

This question paper consists of 13 printed pages. (Inclusive of cover page)

Optical Answer Sheet

Section A

Questions **1** to **4** carry 1 mark each. Questions **5** to **7** carry 2 marks each.
For each question, four options are given. One of them is the correct answer.
Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the
Optical Answer Sheet (OAS). (10 marks)

1. In 73.69, what does the digit 6 stand for?

   1) 6 ones

   2) 6 tens

   3) 6 tenths

   4) 6 hundredths

Sub-Total :

2. Peter has $\frac{2}{3}$ kg of sugar. He places all the sugar into 6 bags equally.

What is the mass of each bag of sugar?

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

2) $\frac{1}{9}$ kg

3) $\frac{1}{4}$ kg

4) 4 kg

3. The total points scored by 3 girls and a boy in a game was 156. The boy scored 42 points. What was the average points scored by the 3 girls?

1) 30
2) 38
3) 39
4) 52

4. There are 36 people in a baking class. There are 9 men and the rest are women. What percentage of the people are women?

1) 25%
2) 33%
3) 50%
4) 75%

Sub-Total :

5. Find the value of 65 − 3 × (12 ÷ 4) + 14.

    1) 14
    2) 42
    3) 70
    4) 200

6. Glenn is 16 years old and his father is three times as old as he is. In how many years' time will the ratio of Glenn's age to his father's age be 1 : 2?

    1) 8
    2) 16
    3) 24
    4) 32

7. A mug has a capacity of 500 *ml*. A jug has a capacity of 1.05 *ℓ*. What is the total capacity of 3 mugs and 2 jugs?

    1) 1 710 *ml*
    2) 1 800 *ml*
    3) 3 600 *ml*
    4) 4 500 *ml*

4

Sub-Total :

Questions **8** to **12** carry 1 mark each. Questions **13 to 17** 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.

(15 marks)

---

8. Arrange the following from the largest to the smallest.

    9.9   9.09   9.99   9.909

    Answer : _____

9. The number below is a 4-digit number. It is a multiple of 6. What is the **largest** possible digit in the blank space?

    | 3 | | 2 | | 5 | | ? |

    Answer : _____

10. $\frac{1}{7}$ of a number is 60. What is $\frac{1}{5}$ of the number?

    Answer : _____

ACS(J) P5 MA CA2 2015

Sub-Total :

11. Russell used a ruler to measure the length of a pencil. What is the length of the pencil?
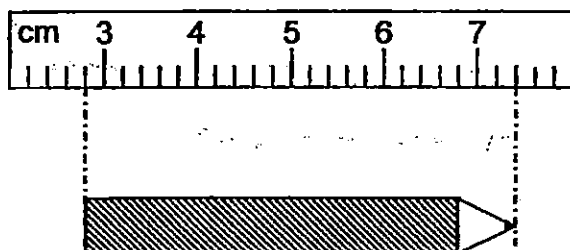
Answer : _____ cm

12. A florist sold $\frac{5}{8}$ of her flowers on Mother's Day. What percentage of the flowers were <u>unsold</u>?

Answer : _____ %

13. Find the product of 40 tens and 48 tenths.

Answer : _____

6

Sub-Total :

14. Ali and Baba shared the total cost of a present. Ali paid $\frac{3}{8}$ of the cost of the present. Given that Baba paid $28 more than Ali, how much was the cost of the present?

Answer : $ _____

15. A repeated pattern is formed using the numbers 1 and 2. The first 15 numbers are shown below.

1 2 1 2 2 1 2 1 2 2 1 2 1 2 2
1st 2nd 3rd...........

What is the sum of the first 50 numbers?

Answer : _____

Sub-Total :

16. Luke has 3 times as many Star Wars figurines as Anakin. Luke has 26 more Star Wars figurines than Anakin. Find the average number of Star Wars figurines of the two boys.

Answer : _____

17. The figure is made up of two identical squares. What percentage of the figure is shaded?
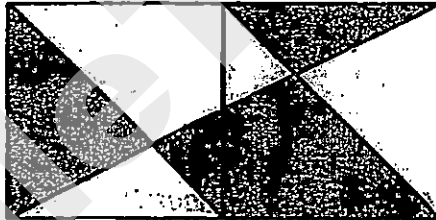
Answer : _____ %

Sub-Total :

For questions **18** to **24**, show your working clearly 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.

(25 marks)

---

18. The table shows the rate of charges for each overdue book borrowed from the school library.

For the first 3 days	5 cents per day
From the 4th day onwards	10 cents per day

Jenny borrowed 3 books from the library. All the books were overdue for 6 days. How much did she pay for the overdue books?

Answer : _____ [3]

19. At a concert, the ratio of the number of adults to the number of children was 9 : 4. The ratio of the number of men to the number of women was 1 : 2. There were 36 more women than children. How many people attended the concert?

Answer : _____ [3]

9

Sub-Total :

20. Mrs Suresh wanted to buy 7 kg of rice but was short of $9.30. Then she bought 4 kg of rice and had $6 left. Find the cost of 1 kg of rice.

Answer : _____ [3]

21. There were 16 boys and 8 girls in a class. A teacher gave an equal number of stickers to each child. When all the girls gave $\frac{1}{3}$ of their stickers to all the boys, each boy received 3 stickers more. How many stickers did each child receive at first?

Answer : _____ [4]

Sub-Total : _____

22. The figure below shows 3 banners. The total length of the 3 banners is 578 cm. Find the length of Banner C in cm.

Answer : _____ [4]

Sub-Total :
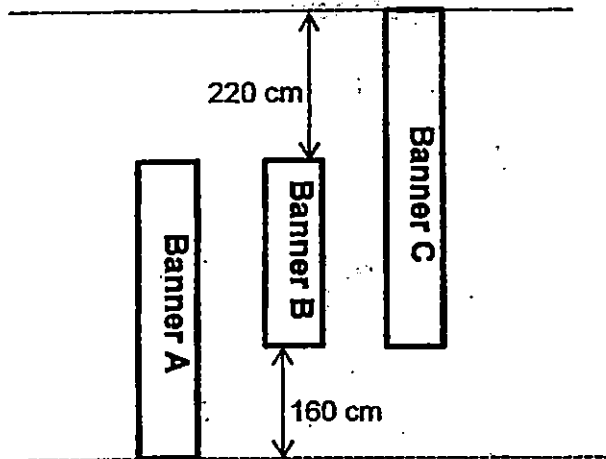
23. Jack gets $8 more allowance than Jill each week. Every week, each of them spends $36 on food and saves the rest. When Jack saves $108 Jill saves $60.
   a) How many weeks does Jack take to save $108?
   b) How much allowance does Jack get each week?

Answer : a) _____ [2]

b) _____ [2]

12

Sub-Total :

24. The table below shows the number of toy cars collected by each boy in a group. There are 22 boys in the group. One of the numbers in the table is covered by an ink blot.

Number of toy cars collected by each boy	0		9
Number of boys	2	8	12

The average number of toy cars collected by the boys in the group is 6.

a) What is the total number of toy cars collected by all the boys?
b) What is the number covered by the ink blot?

Answer : a) _____ [1]

b) _____ [3]

End of Paper

13

ACS(J) P5 MA CA2 2015

Sub-Total :

EXAM PAPER 2015
LEVEL : PRIMARY 5
SCHOOL : ANGLO CHINESE SCHOO (JUNIOR)
SUBJECT : MATHEMATICS
TERM : CA2

Q1	Q2	Q3	Q4	Q5	Q6	Q7			
3	2	2	4	3	2	3			

Q8. 9.99, 9.909, 9.9, 9.09

Q9. 8

Q10. 84

Q11. 4.6cm

Q12. 37.5% ➔ Unsold 1 - ⅝ = ⅜ , ⅜ x 100% = 37.5%

Q13. 1920 ➔ 400 x 4.8 =3260 + 1920

Q14. $112 ➔ $\frac{2}{8}$ ➔ $28, ⅛ ➔ $28÷2=$14, $\frac{8}{8}$ ➔ $4 x 8 = $112

Q15. 80
 1 set ➔ 5 numbers,
1 set ➔ 1+2+1+2+2=3+1+2+2=4+2+2=6+2=8
No. of sets ➔ 50÷5=10
Sum ➔ 10 x 8 = 80

Q16. 26 star wars figurines
2u ➔ 26, 1u ➔ 13, total 13 x 4 = 52, average ➔ 52÷2 = 26

Q17. 50% ➔ 2 squares ➔ 100%, 1 square ➔ 50%

Q18. $1.35
First three days ➔ 3 x 5¢ = 15¢
Next three days ➔ 3 x 10¢ = 30¢
Total ➔ 30¢ + 15¢ = 45¢
1 book ➔ 45¢
3 books ➔ 45¢ x 3 = 135¢ = $1.35

Q19. 234 people
Adults : Children
 9 : 4
Men : Women
 3 : 6
6u -4u =2u, 2u ➔ 36
1U ➔ 18 , 9U + 4U = 13U, 13U ➔ 18 X 13 = 234

Q20. $5.10
7kg -$9 = Mrs Suresh's money
4kg +$6 = Mrs Suresh's money
3u → $6 + $9.30 = $15.30
1u → $15.30 ÷ 3 = $5.10

Q21. 18 stickers
⅓ of stickers each → 3x2=6
3/3 of stickers each → 6 x 3 = 18.

Q22. 286cm
Banner B → 1u
Banner A → 1u + 160cm
Banner C → 1u +220cm
Total → 1u x 3 +220cm +160 cm = 3u +380cm
3u → 578cm – 380cm = 198cm
1u → 198cm ÷ 3 = 66cm
Banner C → 66cm + 220cm = 286cm

Q23a. 6 weeks
Jack = 1p +$8 , Jack's savings = $108
Jill = 1p , Jill's savings = 460
Difference in savings → $108 – $60 = 448
No. of weeks → $48 ÷ $8 = 6

Q23b. $54
$108 ÷ 6 = $18
$18 + $36 = $54

Q24a. 132 toy cans
Total 22 x 6 = 132

Q24b. 3
12 x 9 = 108, 132 – 108 = 24
24÷8 = 3

THE END

Anglo-Chinese School (Junior)

SEMESTRAL ASSESSMENT 2 (2015)

PRIMARY 5

MATHEMATICS

PAPER 1

Booklet A

Monday   **2 November 2015**   **50 min**

Name: _____ (   )   Class: 5.(   )

INSTRUCTIONS TO PUPILS

1. Do not turn over the pages until you are told to do so.

2. Follow all instructions carefully.

3. Answer ALL questions.

4. Shade your answers in the Optical Answer Sheet (OAS) provided.

5. You are **not** allowed to use a calculator for this paper.

This question paper consists of 7 printed pages (inclusive of cover page).

1. What is the value of $4 + 36 \div (6 - 2) \times 2$?

    1) 5
    2) 12
    3) 20
    4) 22

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

    1) 8
    2) 11
    3) 22
    4) 23

3. Which one of the following is nearest to 2?

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

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

    3) $2\frac{1}{4}$

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

4. Round off 3.183 to the nearest hundredths.

   1) 3.1
   2) 3.2
   3) 3.18
   4) 3.19

5. Which of the following is the same as 1.003 kg?

   1) 1 kg 3 g
   2) 1 kg 30 g
   3) 1kg 300 g
   4) 1 kg 3000 g

6. What is the area of triangle ABC as shown in the figure?
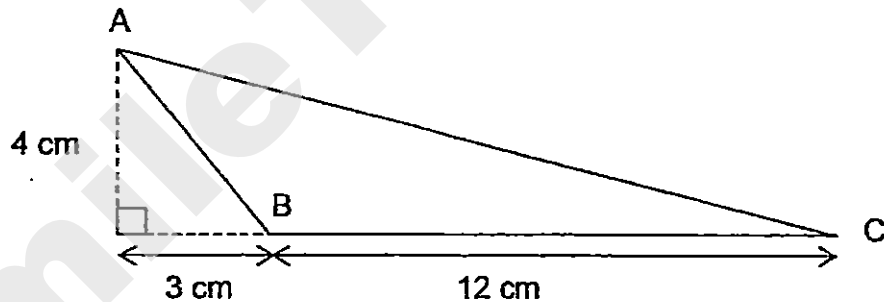
   1) 24 cm²
   2) 30 cm²
   3) 48 cm²
   4) 60 cm²

7. The solid below is made up of 1-cm cubes. What is the volume of the solid?
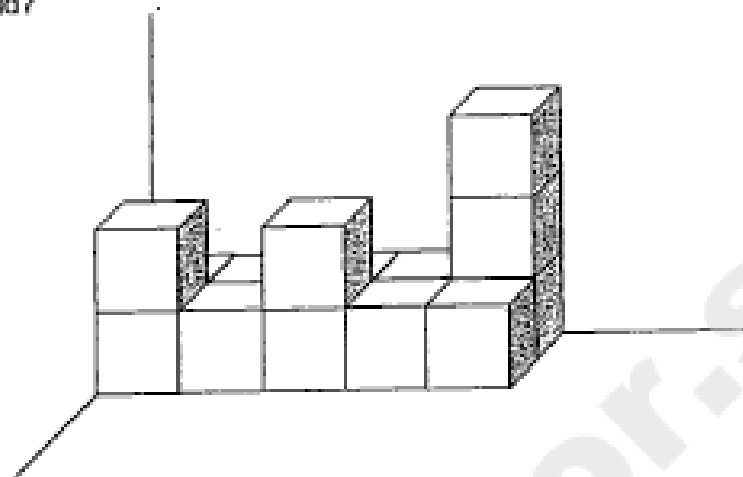
1) 12 cm³
2) 13 cm³
3) 14 cm³
4) 15 cm³

8. The rectangular tank below is $\frac{3}{5}$ filled with water. What is the volume of water in the tank?
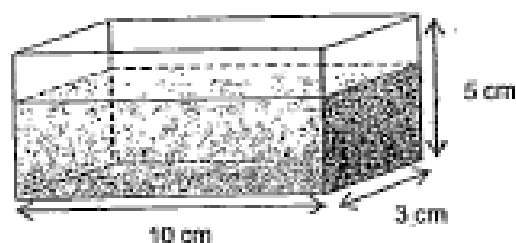
1) 60 cm³
2) 90 cm³
3) 150 cm³
4) 250 cm³

9. The graph shows the amount of money William spent each month
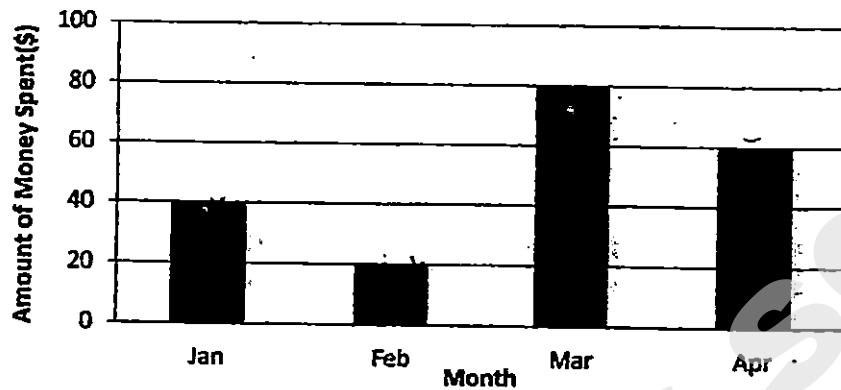
William had the same amount of allowance from January to April. In which month did he save the most?

1) Jan
2) Feb
3) Mar
4) Apr

10. In the figure below, PQ and RS are straight lines. Which pair of angles is equal?
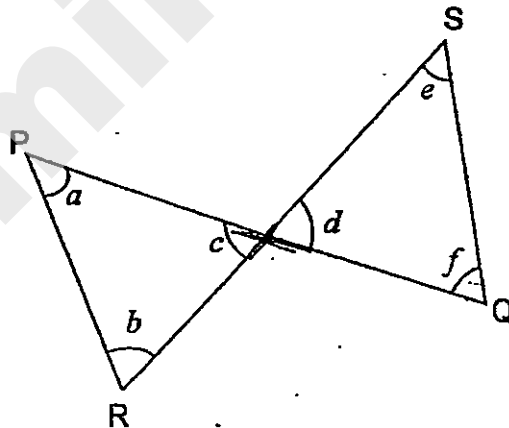
1) a and b
2) e and f
3) c and d
4) b and f

11. Jordan had 50 more erasers than Kumar at first. Jordan gave 6 of his erasers to Kumar. Jordan now has 3 times as many erasers as Kumar. How many erasers did Kumar have at first?

   1) 13
   2) 19
   3) 22
   4) 25

12. William bought 12 kg of sugar. After filling 8 containers with the same amount of sugar each, he had 800 g left. How much sugar was there in each container?

   1) 700 g
   2) 1 kg 400 g
   3) 1 kg 500 g
   4) 1 kg 600 g

13. Aaron bought 6 pears and 2 peaches for $15. 1 peach cost twice as much as a pear. What was the cost of 1 peach and 1 pear?

   1) $1.50
   2) $2.50
   3) $3.00
   4) $4.50

14.

The top half of a symmetric figure is shown above. XY is the line of symmetry. Which one of the following completes the symmetric figure?

1)

2)

3)

4)
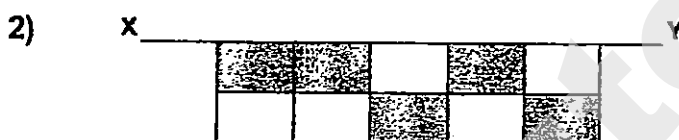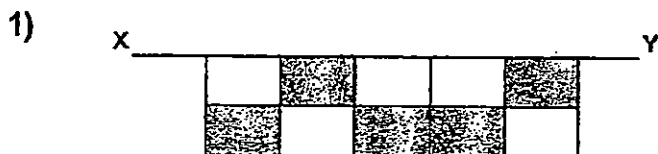
15.   Sebastian earned $4000 last month. He spent 50% of his salary, donated $400 to charity and saved the rest. What percentage of his salary did he save?

1)   10 %

2)   20 %

3)   30 %

4)   40 %

End of Booklet A

SEMESTRAL ASSESSMENT 2 (2015)

PRIMARY 5

MATHEMATICS

PAPER 1

Booklet B

Monday   **2 November 2015**   **50 min**

Name: _____ (   )   Class: 5.(   )

INSTRUCTIONS TO PUPILS

1   Do not turn over the pages until you are told to do so.

2   Follow all instructions carefully.

3   Answer ALL questions.

4   You are **not** allowed to use a calculator for this paper.

This question paper consists of 9 printed pages (inclusive of 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)

16. Write 18 thousands, 4 hundreds and 20 tens in numerals.

Answer : _____

17. Express $\dfrac{7}{4}$ as a decimal.

Answer : _____

18. $37\,800 \div 9\,000 =$ _____

Answer : _____

Sub-Total : [ ]

19.   At first, Mary had 20 m of string. She cut the string into smaller pieces. Each piece is 50 cm. How many pieces of string were there in the end?

Answer : _____

20.   27 small cubes have been linked together to form a large cube. The large cube is then painted pink completely on all the outside faces. How many small cubes have three painted pink faces?

Answer : _____

Sub-Total : [   ]
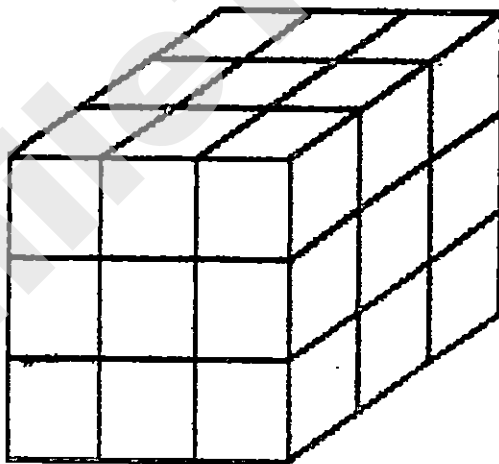
21. The table below shows the age of 5 boys. Whose age is the closest to their average age?

Name	Age
Andy	10
Brian	12
Chris	13
Daniel	14
Ethan	15

Answer : _____

22. In the figure below, ABCD is a trapezium. Find ∠x.

Answer : _____

Sub-Total :
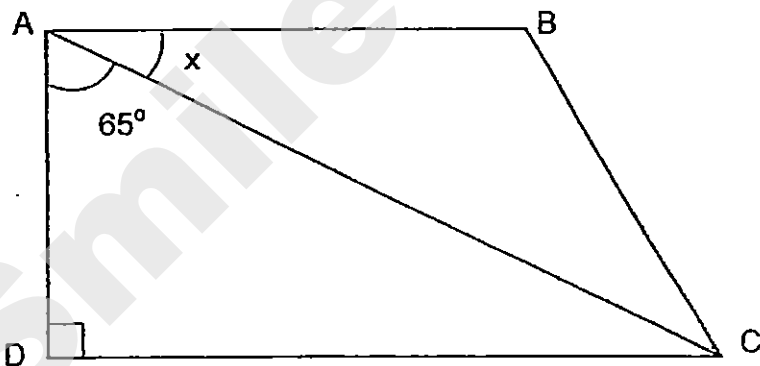
23. The following figure is made up of straight lines.
Given that the ratio of ∠a to ∠b to ∠c is 3 : 2 : 1, find ∠c.
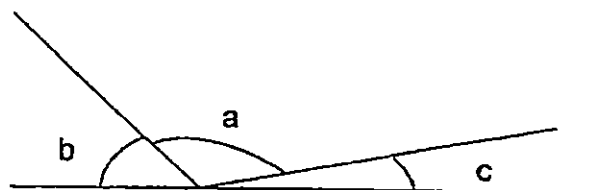
Answer : _____ °

24. Express $\frac{7}{8}$ as a percentage.

Answer : _____ %

Sub-Total :

25. At a concert, there were 240 men, 360 women and 150 children. Find the ratio of the number of men to the number of women to the number of children. Express your answer in the simplest form.

Answer : _____

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. Sherwin had twice as many books as Danny. Sherwin gave 25 books to Danny. After that, Sherwin had 100 books more than Danny. How many books did Sherwin have at first?

Answer : _____

27. The area of the rectangle ABCD is 140 cm². EF is parallel to AD. What is the area of the shaded part?

10 cm
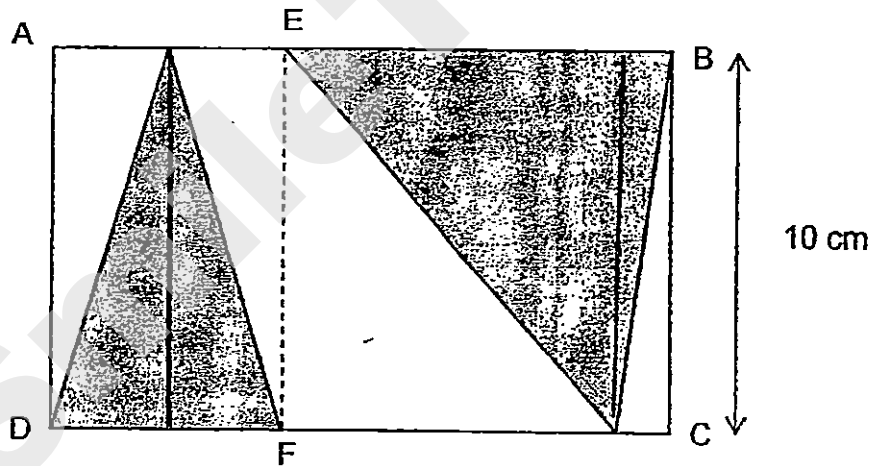
Answer : _____ cm²

28. The graph below shows the number of each type of fruit sold by a shop.
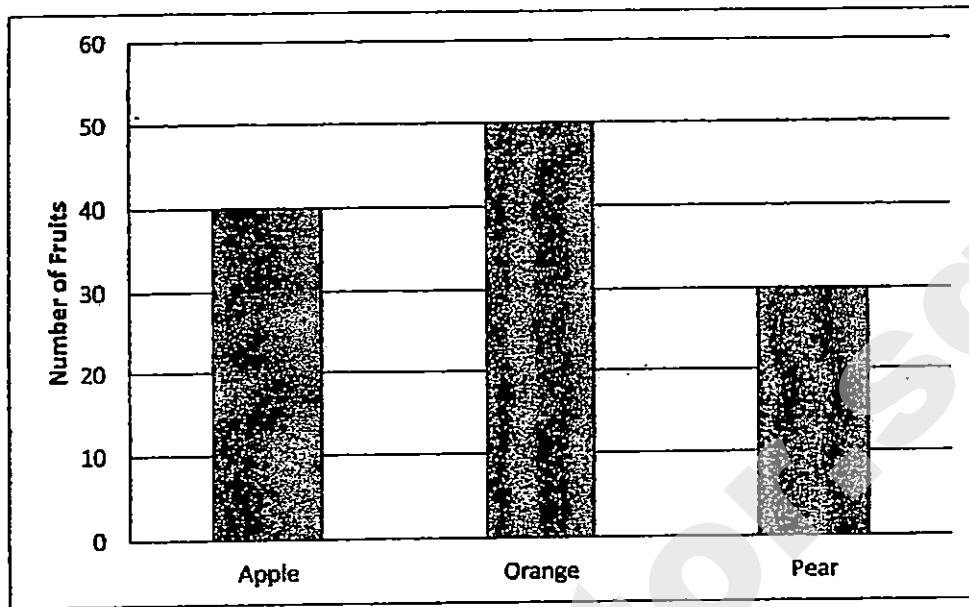
The table shows the prices of the fruits.

Type of Fruits	Price per Fruit
Apple	$0.20
Orange	$0.15
Pears	$0.25

From the sale of which type of fruit did the shop collect the most money?

Answer : _____

Sub-Total :

29. ACD is an equilateral triangle and AC = BC.
Find ∠BAC.

A

B   C   D
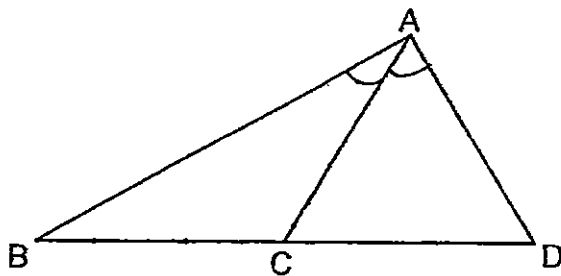
Answer : _____

30. Brian had 40 shirts. 25% of his shirts were black. The remaining shirts were blue. How many blue shirts did Brian have?

Answer : _____

End of Booklet B

Anglo-Chinese School (Junior)

SEMESTRAL ASSESSMENT 2 (2015)
PRIMARY 5
MATHEMATICS
PAPER 2

Monday   **2 November 2015**   **1 h 40 min**

Name: _____ . (   )   Class: 5.(   )   Parent's Signature: _____

INSTRUCTIONS TO PUPILS

1   Do not turn over the pages until you are told to do so.

2   Follow all instructions carefully.

3   Answer ALL questions.

4   You can use a calculator for this paper.

Paper	Booklet	Possible Marks	Marks Obtained
1	A	20	
	B	20	
2		60	
Total		100	

This question paper consists of 14 printed pages (inclusive of cover page).

1. A pencil case containing 4 pencils weighs 550 g. A pencil case containing 6 pencils weighs 700 g. What is the weight of a pencil?

Ans : _____

2. Craig, Daniel and Edward shared an amount of money. Craig took $\frac{1}{3}$ of the total amount of money. **Daniel** had twice as much money as Edward. The boys have $360 altogether. How much money does Edward have?

Ans : $ _____

3. The table below shows the cost of data usage for Mr Goh's mobile phone.

First 500 MB	$6.60
Subsequent 100 MB or part thereof	$1.80

How much does Mr Goh have to pay for his data plan if he used 885 MB this month?

Ans : $ _____

4. The average score of a revision test of a group of pupils was 85. When one pupil who scored 81 marks left the group, the average score of the remaining pupils became 86. How many pupils were there in the group at first?

Ans : _____

5. In a school hall, the ratio of the number of teachers to the total number of boys and girls was 2 : 1. The ratio of the number of boys to the number of girls was 3 : 4. There were 20 girls in the school hall. How many teachers were there?

Ans : _____

Sub-Total :

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

6. Sam bought the same number of books and pens. He spent $112 on the books and $48 on the pens. A book cost $4 more than a pen. What was the cost of one book?

Ans : _____ [3]

7. Three boys used the same number of ice-cream sticks to make toys. Ash used $\frac{2}{3}$ of his ice-cream sticks, Bala used $\frac{1}{2}$ of his ice-cream sticks and Charles used $\frac{3}{5}$ of his ice-cream sticks. They had a total of 620 ice-cream sticks at first. How many ice-cream sticks did Charles have at first?

Ans: _____ [3]

Sub-Total :

8. Rex had 10 m of ribbon. He used 1.82 m of it to tie a present. He then cut the remaining ribbon into 4 equal strips. What is the length of each strip of ribbon? Round off your answer to the nearest metre.

Ans : _____ [3]

9. An empty rectangular glass tank measures 50 cm by 30 cm by 20 cm. Tap A was turned on and flowed at a rate of 1.5 litres per minute. How long will it take to fill up $\frac{2}{5}$ of the tank?

Tap A

20 cm

30 cm

50 cm
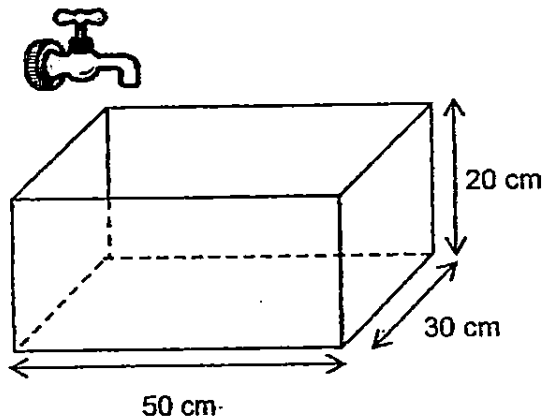
Ans: _____ [3]

10. Olio earns $3660 a month. He spends 30% of his monthly salary. Vincent spends the same amount of money as Olio and saves the rest. Given that Vincent saves 50% of his salary, what is his monthly salary?

Ans : _____ [3]

11. Guo Kai had twice as many English books as Chinese books at first. After he gave away 32 English books and 32 Chinese books, the number of English books left was 4 times the number of Chinese books left.
a) How many English books did he have at first?

b) Guo Kai then sold $\frac{1}{4}$ of his Chinese books. How many Chinese books had he left?

Ans : (a) _____ [2]

(b) _____ [2]

Sub-Total : [   ]

12. Gordon gave $\frac{1}{3}$ of his sweets to Conrad. After that, Conrad gave Gordon $\frac{1}{4}$ of what he had. In the end, Gordon had 64 sweets and Conrad had 72 sweets. How many sweets did Gordon have at first?

Ans : _____ .[4]

Sub-Total :

13. The figure below is not drawn to scale and is formed by two triangles ABC and ADE. Find the area of the figure.

Ans : _____ [4]

Sub-Total :
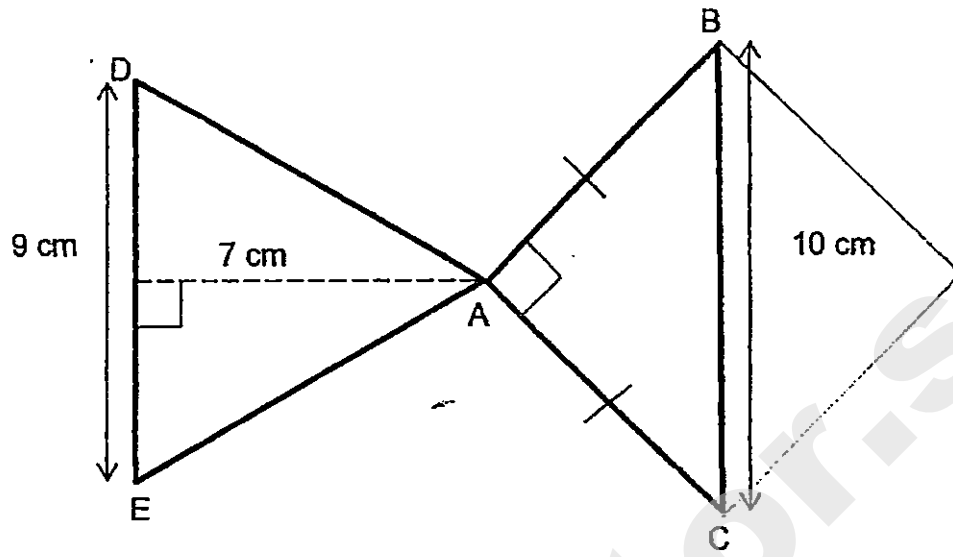
14. A unit shape measuring 3 cm by 2 cm in the form of a right-angled triangle is drawn in the grid below. (Figure not drawn to scale)
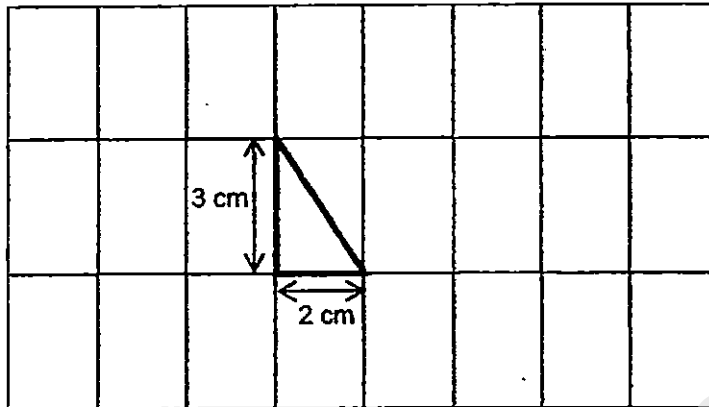
Zachary forms a rectangle by joining two unit shapes as show below.
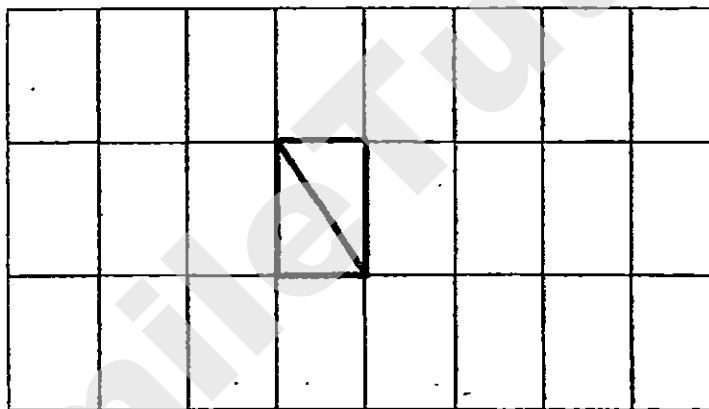
In addition to the rectangle, he then wants to form three more figures: an isosceles triangle, a parallelogram and a square. Each figure is to be formed with the **smallest** number of unit shapes. All three figures should be **different** from each other.

Sub-Total :

Complete the drawing of the other three figures below by adding one or more unit shapes to the one drawn.

14 a)

Isosceles Triangle　　　　　　[1]

14 b)

Parallelogram　　　　　　[1]

14 c)

Square　　　　　　[2]

Sub-Total :
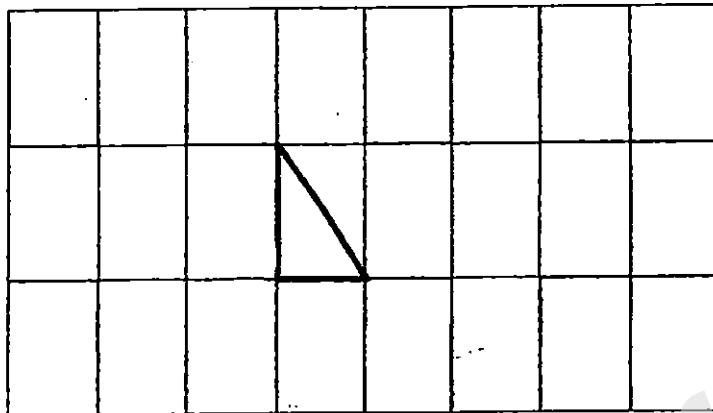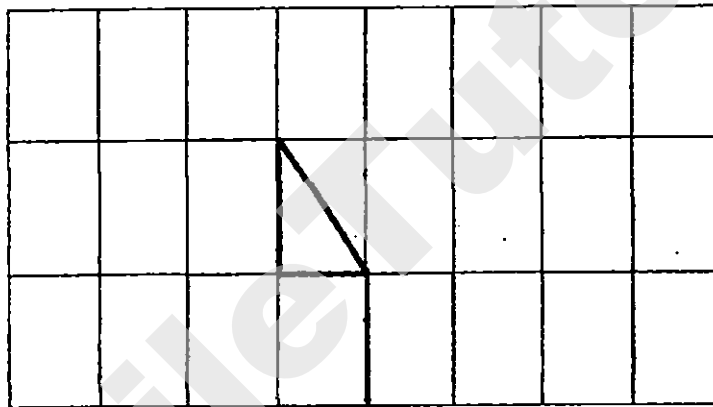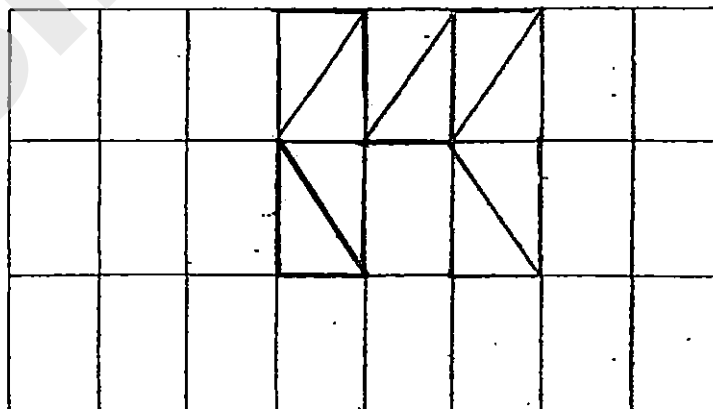
15. Xander decided to save $\frac{1}{5}$ of his monthly salary for a holiday to Spain.

In January, Xander earned $5 600. In February, his salary increased by 10%.

a) How much did he earn in February?

b) The amount of money saved in January and February was 60% of what he needed for the holiday. What was the total amount of money Xander needed for his holiday?

Ans: (a) _____ [1]

(b) _____ [3]

16. Debussy had $32 in savings, made up of 10-cent, 20-cent and 50-cent coins. He had four times as many 10-cent coins as 20-cent coins. He had twice as many 50-cent coins as 20-cent coins.

(a) What was the total value of his 50-cent coins?

(b) If he were to exchange his 20-cent coins and 50-cent coins for $2-notes, how many $2-notes would he receive?

Ans: (a) _____ [3]

(b) _____ [2]

Sub-Total :

17. Edgar spent $\frac{1}{4}$ of his money a watch. He spent $\frac{2}{5}$ of the remainder on 4 shirts and saved the rest.

(a) What fraction of Edgar's money did he spend on the 4 shirts?

(b) The watch cost $168 more than one shirt. Given that the price of each shirt was the same, how much did Edgar save?

Ans: (a) _____ [3]

(b) _____ [2]

Sub-Total :

18. Lee Eng baked chocolate cookies and macadamia cookies in the ratio 3 : 2. She gave away 132 chocolate cookies and 92 macadamia cookies. After that, the ratio of chocolate cookies to macadamia cookies was 2 : 1.

(a) How many cookies did she have altogether in the end?

'(b) The remaining cookies were sold in packets of 4 for $1 or $0.50 each. She earned $11 from the sales. How many cookies were sold at $0.50 each?

Ans: (a) _____ [2]

(b) _____ [3]

End of Paper 2

EXAM PAPER 2015
LEVEL   : PRIMARY 5
SCHOOL   : ANGLO CHINESE JUNIOR
SUBJECT : MATHEMATICS
TERM   : SA2

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

Q16. 18600   Q17 1.75   Q18. 4.2

Q19. 40 pieces ➔ 20m 200cm, 2000 ÷ 50 = 40

Q20. 8 small cubes

Q21. Chris ➔ 10 + 2+13+14+15=64, 64 ÷ 5= 12.8

Q22. 25° ➔ 180 – 90 – 65 = 25

Q23. 30° ➔ 180°÷6=30°

Q24. 87.5% ➔ ⅞ x 100% = 87.5%

Q25. 8:12:5 ➔ M : N : C, 240 : 360 : 150 (divide by 10) ➔ 24 : 36 : 15 (divide by 3), 8:12;5

Q26. 300 books ➔ 1u 100 = 25 +25= 150, 2u 150 x 2 = 300

Q27. 70cm² ➔ 140÷10=14, ½ x 14 x 10 = 70

Q28. Apples ➔ 40 x 0.20 = 8.00, 50 x 0.15 = 7.50, 30 x 0.25 = 7.50

Q29. 30° ➔ 180 – 60=120, 180-120=60, 60÷2=30

Q30. 30 blue shirts ➔ $\frac{75}{100}$ x 40 = 150= 30

Q1. 75g ➔ 2p 700 – 550 = 150, 1p 150÷2=75

Q2. $80 ➔ C ➔ 360÷3=120, 3U ➔ 360 – 120 = 240, 1u ➔ 240÷3= 80

Q3. $13.80 ➔ 6.60 + 1.80 +1.80+1.80+1.80 = 13.80

Q4. 5 pupils ➔ 86 – 81 =5, 86 – 85 = 1, 5÷1=5

Q5. 70 teachers ➔ 20 4u, 1u 20÷4=5, 7u 7 x 5 = 35, 1p 35, 2p 35 x 2=70

Q6. $7 ➔ 112 – 48 = 64, 64÷4=16, 16B $112, 1B 112÷16=7

Q7. 200 ice cream sticks ➔ 31u 620, 1u 620÷31=20, 10u 10 x 20 = 200

PAGE 1

Q8. 2m → 10 − 1.82 = 8.18, 8.18 ÷4=2.045, 2.045m ≈2m

Q9. 8 minutes
50 x 20x30=30,000,
1.5litre →1500m³
30000÷5=6000
6000x2=12000
12000÷1500=8

Q10. $2196
$\frac{30}{100}$ x 3660 = 1098
-505 1098, 100% 1098 x 2 = 2196

Q11a. 96 english books
2u →32, 1u →32÷2=16
E →16 x 2 = 32, 32 x 2 = 64, 64 + 32 =96

Q11b. 12 chinese books
¼ x 16 = 4, 16 − 4= 12

Q12. 62 sweets

	Gordon	Conrad
End	72	64
C gave ¼	3u = 72, 1u=24 (96), 4u=96	+24, 64 − 24 = 40
G give ⅓	X	60

Q13. 56.5cm². **SEE DRAWN PICTURE**
$\frac{10 \times 10}{4} = 25$

10÷5=2

mid point of square, ½ x 10 x 5 = 25, 25 + 31.5=56.5cm²

Q14a, Q14b and Q14c → **SEE PICTURE on page 3**

Complete the drawing of the other three figures below by adding one or more unit shapes to the one drawn.

14 a)

Isosceles Triangle [1]

14 b)

Parallelogram [1]

14 c)

Square [2]

Page 3
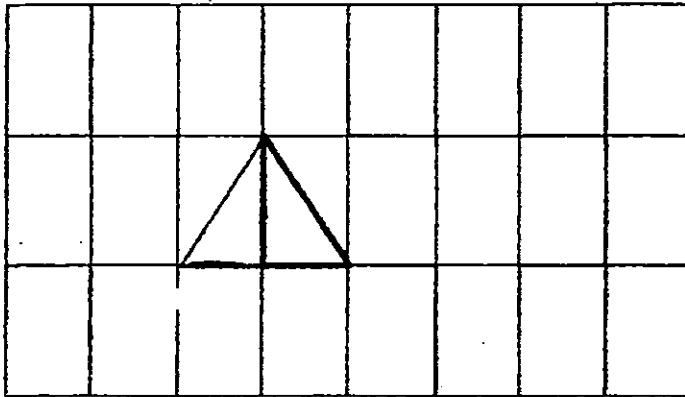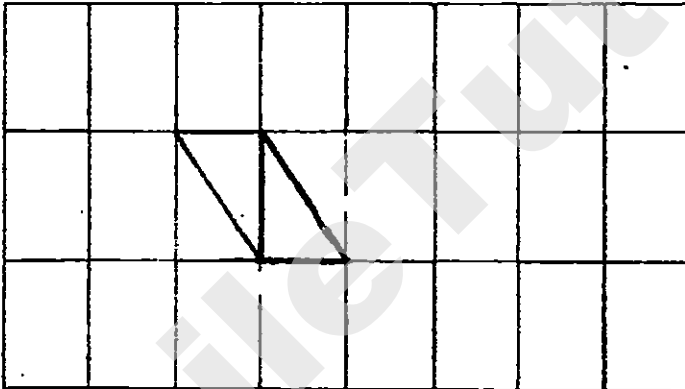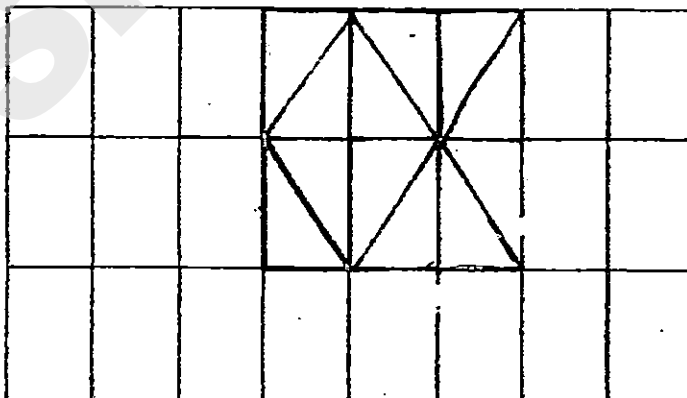
Q15a. $6160 → $\frac{10}{100}$ x 5600 = 560, 5600 + 560 = 6160

Q15b. $3920
⅕ x 5600 = 1120, ⅕ x 6160 = 1232,
60% → 1232 + 1120 = 2352, 1% 2352 ÷ 60 = 39.20,
100% → 100 x 39.20 = 3920

Q16a. $20
4 x 0.10 = 0.40, 1 x 0.20 = 0.20, 2 x 0.50 = 1, 1 + 0.40 + 0.20 = 1.60,
32 ÷ 1.60 = 20, 20 x 2 = 40, 40 x 0.50 = 20

Q16b. 12 $2 notes
Value of 50¢ coins → $20
Value of 20¢ coins → 20 x $0.20 = $4
Total value → $20 + $4 = $24
No. of $2 notes → $24 ÷ $2 = 12

Q17a. $\frac{6}{20}$

$\frac{3}{20} + \frac{3}{20} = \frac{6}{20}$

Q17b. $432
6 ÷ 4 = 1.5
3.5u 168
1u → 168 ÷ 3.5 = 48
15u → 5 x 48 = 48
15u → 15 x 48 720
6u → 6 x 48 = 288
720 − 288 = 432

Q18a. 36 cookies   Q18b. 8 cookies

1u 184 − 132 = 52
3u 52 x 3 = 156
2p 156 − 132 = 24
1p 24 ÷ 2 = 12
3p 12 x 3 = 36

THE END

CATHOLIC HIGH SCHOOL
END-OF-YEAR EXAMINATION
MATHEMATICS
PRIMARY 5
PAPER 1
(BOOKLET A)

Name : _____ ( )

Class: Primary 5 _____

Date: 30 October 2015

Total Time for Booklets A and B: 50 min

15 questions

20 marks

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Shade your answers in the Optical Answer Sheet (OAS) provided.

The use of calculators is **NOT** allowed.

Booklet A and B consist of 13 printed pages.

1.   Round off 442 297 to the nearest thousand.

    (1)   400 000

    (2)   440 000

    (3)   442 000

    (4)   443 000

2.   Which digit in 59.04 is in the tenth place?

    (1)   0

    (2)   5

    (3)   9

    (4)   4

3.   What is the sum of 5 hundreds, 20 tenths and 3 hundredths?

    (1)   500.023

    (2)   500.230

    (3)   502.030

    (4)   502.300

4.   Which one of the following has the same value as $1\frac{2}{5}$?

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

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

    (3) $\frac{3}{5}+\frac{4}{5}$

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

(Go on to the next page)

5. In the figure below, triangle ABC is an equilateral triangle. Find the perimeter of triangle ABC.
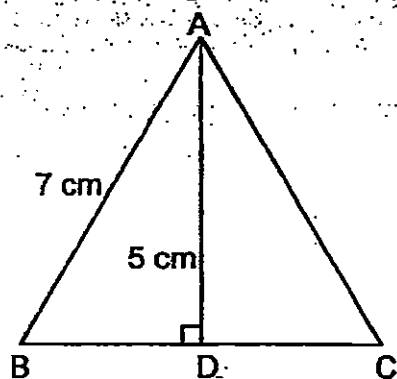
(1)   12 cm

(2)   15 cm

(3)   17.5 cm

(4)   21 cm

---

6. In a class of 40 pupils, 24 are girls.
What is the ratio of the number of girls to the number of boys?

(1)   2 : 3

(2)   3 : 2

(3)   3 : 5

(4)   2 : 5

---

7. Express 0.4 as a percentage.

(1)   4%

(2)   40%

(3)   0.04%

(4)   0.004%

---

8. Jane used $\frac{3}{4}$ kg of flour to make bread and Alice used $\frac{1}{3}$ kg of flour to make bread. How many more kilograms of flour did Jane use than Alice?

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

(2) $\frac{5}{12}$ kg

(3) $1\frac{1}{12}$ kg

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

9. Given that NO is the base of triangle LNO, find the height of triangle LNO.

(1) LN

(2) NP

(3) LM

(4) LO
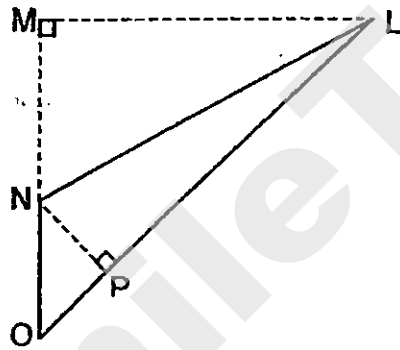
10. Which one of the following quadrilaterals is an example of a rhombus?
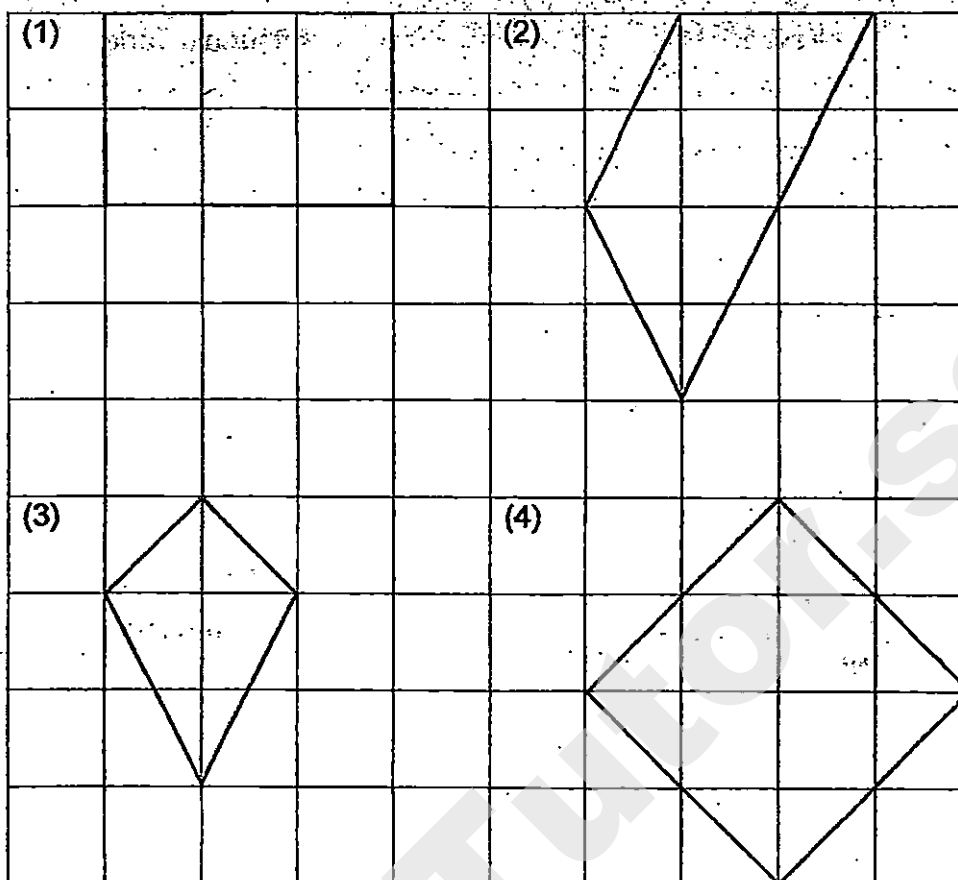
11. Find the value of $22 - 5 \times 3 + 18 \div 3$.

    (1)   10

    (2)   13

    (3)   23

    (4)   57

12. Mrs Tan had 20 green apples and 10 red apples. She bought 10 more red apples. Express the number of red apples as a percentage of the total number of apples she has now.

    (1)   20%

    (2)   25%

    (3)   50%

    (4)   75%

(Go on to the next page)

4

13. In the figure below, PQRS is a trapezium and RT = RQ. SR is parallel to PQ. Find ∠SRT.
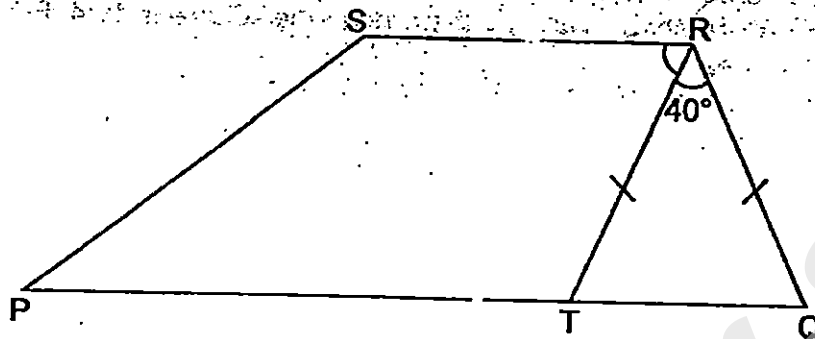
(1)   30°

(2)   70°

(3)   110°

(4)   140°

14. In the figure below, ABC is a triangle. Find ∠a + ∠b.
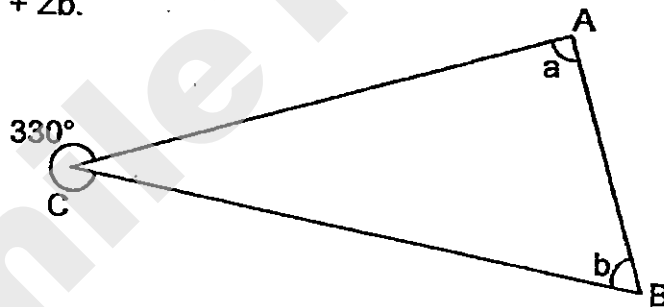
(1)   30°

(2)   75°

(3)   120°

(4)   150°

(Go on to the next page)

15. In the figure below, the shaded area is cut from a square of side 4 cm. The ratio of the shaded area to the area of the square is 1 : 4. Find the unshaded area.

4 cm

4 cm
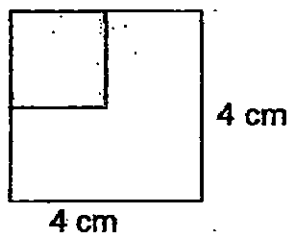
(1) 1 cm^2

(2) 4 cm^2

(3) 12 cm^2

(4) 16 cm^2

END OF BOOKLET A

CATHOLIC HIGH SCHOOL
END-OF-YEAR EXAMINATION
MATHEMATICS
PRIMARY 5
PAPER 1
(BOOKLET B)

Name : _____ ( )

Class: Primary 5 _____

Date: 30 October 2015

Total Time for Booklets A and B: 50 min

15 questions

20 marks

Booklet A	
Booklet B	
Total	

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

The use of calculators is **NOT** allowed.

Booklet A and B consist of 13 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. All diagrams are not drawn to scale. **(10 marks)**

16. Write the following in figures.

One million, nine hundred and twelve thousand and twenty-eight

Ans: _____

17. Find the value of 200 × 0.5.

Ans: _____

18. Find the value in the box.

$\boxed{}$: 4 = 9 : 6

Ans: _____

(Go on to the next page)

7

19.   What is 1.05 litres in mililitres?

Ans: _____ mℓ

20.   Express 50 cm as a fraction of 5 m.
      Express your answer as a fraction in the simplest form.

Ans: _____

21.   The total age of 4 boys is 48 years old.
      What is the average age of this group of friends?

Ans: _____ years

22. Mary bought $\frac{2}{3}$ m of cloth. She divided the cloth into 6 equal pieces. What is the length of each piece of cloth?

Ans: _____ m

---

23. The figure below is made up of rectangle ABCD and triangle BEC.
The area of rectangle ABCD is 64 cm².
Find the area of the unshaded triangles.

Ans: _____ cm²

(Go on to the next page)

9
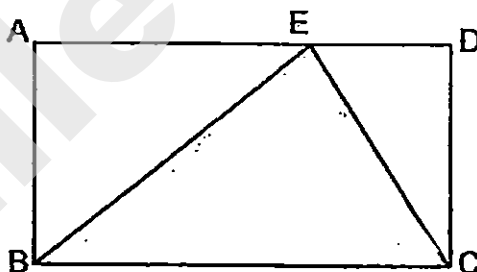
24. How many unit cubes are there in the following solid?
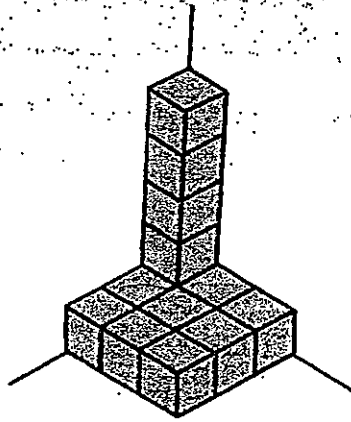
Ans:_____ unit cubes

25. In the figure below, WXYZ is a square.
∠XYO = 40°. Find ∠a.

Ans:_____°
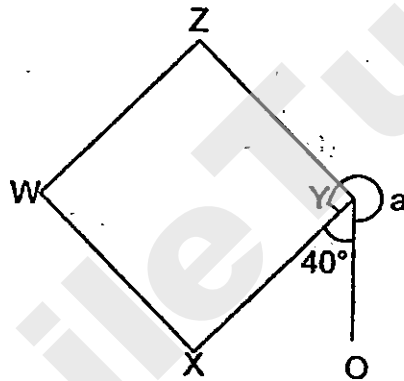
Total marks for questions 16 to 25

(Go on to the next page)

10

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. All diagrams are not drawn to scale   (10 marks)

Do not write in this space.

26.   There were 850 people in a concert. 20% of the people were seated and the rest were standing. How many people were standing?

Ans: _____

27.   Tom ran a distance of $\frac{5}{6}$ km. John ran $\frac{1}{2}$ of the distance that Tom ran. How many kilometres did John run?

Ans: _____ km

11

(Go on to the next page)

28. In the square grid below, there is a shaded figure ABC.
    Find the area of the shaded figure ABC.
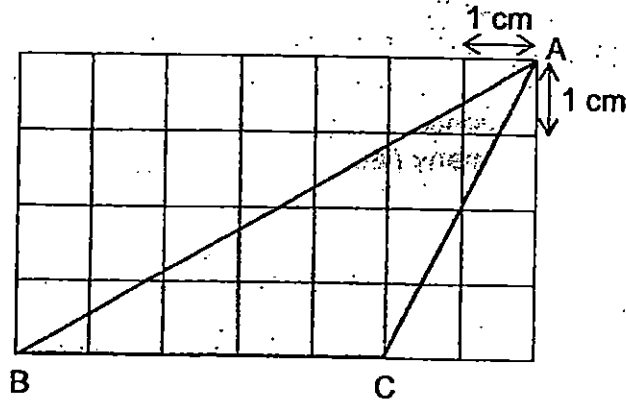
Ans: _____ cm²

29. $\frac{2}{7}$ of Adam's money is equal to $\frac{1}{5}$ of Benjamin's money. Benjamin had $21 more than Adam. How much money does Benjamin have?

Ans:$ _____

(Go on to the next page)

12

30. In the figure below, ACD and BCG are straight lines. ABC is an equilateral triangle and CDEF is a rectangle. Find ∠FCG.

A   B

C

D

F

G

E

Ans: _____ °

Total marks for questions 26 to 30

END OF BOOKLET B
END OF PAPER 1

13

CATHOLIC HIGH SCHOOL
END-OF-YEAR EXAMINATION
MATHEMATICS
PRIMARY 5
PAPER 2

Name : _____ ( )

Class: Primary 5 _____

Date: 30 October 2015

Total Time: 1 h 40 min

Parent's Signature: _____

Paper 1 Booklet A	20
Paper 1 Booklet B	20
Paper 2	60
Total Marks	100

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

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

This booklet consists of 16 printed pages.

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)**

1. The ratio of the number of boys to the number of girls in a school is 8 : 9. There are 567 girls. What is the total number of pupils?

    Ans: _____

2. Ali collected 528 stamps. He gave 483 of them to his sister. Ali kept his remaining stamps equally in 5 albums. How many stamps were there in each album?

    Ans: _____

1

3. Alan is 1.52 m tall. Ben is 22 cm shorter. What is their average height? Express your answer in metres.

Ans: _____

4. Janice spent 20% of her allowance on Monday. On Tuesday, she spent 15% of her allowance. What percentage of her allowance did she have left?

Ans: _____ %

(Go on to the next page)

5. In the figure below, DC is parallel to AB. Find the area of the shaded triangle.
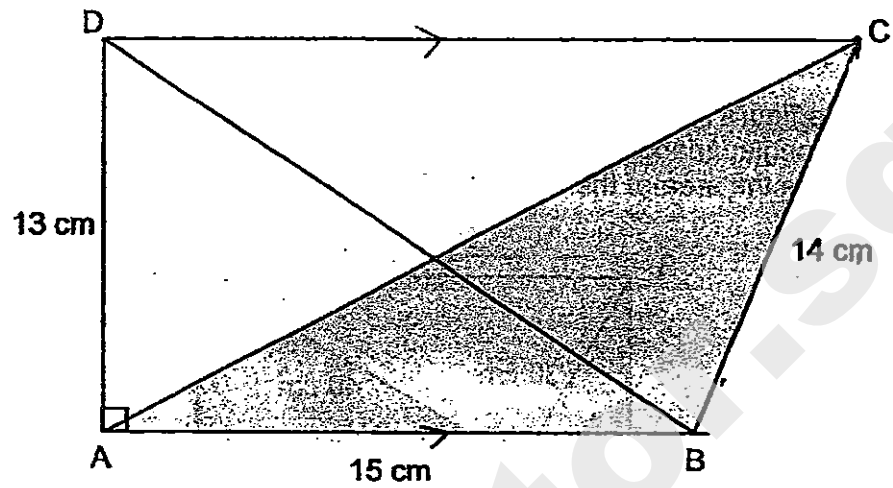
Ans: _____ cm²

3

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)

6. In the figure below, ABCD is a square of sides 50 cm and BCE is a right-angled triangle with sides measuring 30 cm, 40 cm and 50 cm. What is the area of the shaded part?
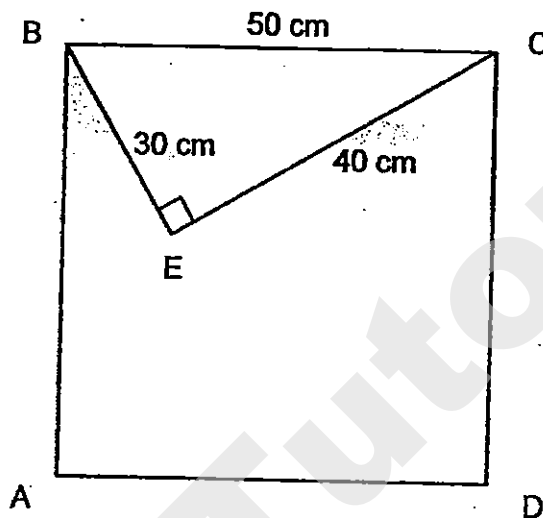
Ans: _____ [3]

7. The ratio of the number of red marbles to the number of blue marbles in a box is 1 : 3 at first. After 12 blues marbles were removed and 12 red marbles were added into the box, the number of red marbles was thrice the number of blue marbles. How many blue marbles were there in the box at first?

Ans: _____ [3]

5

8. Alex and Bryan had the same amount of money at first. After Alex gave away $50 and Bryan received $60, Alex's money was $\frac{1}{3}$ of Bryan's money. How much did Alex have at first?

Ans: _____ [3]

6

9. The usual price of a pair of shoes is $150. Ravi bought the pair of shoes at a discount of 18%. In addition, he had to pay 7% GST on the discounted price. How much did he pay for the pair of shoes in total?

Ans: _____ [3]

(Go on to the next page)

7

10. In the square grid below, a side of triangle ABC has been drawn.

a) Complete the drawing of the triangle ABC so that AB is twice the length of BC and ∠ABC is 90°.

b) Measure and write down ∠ACB.

[2]

Ans (b):_____ [1]

8
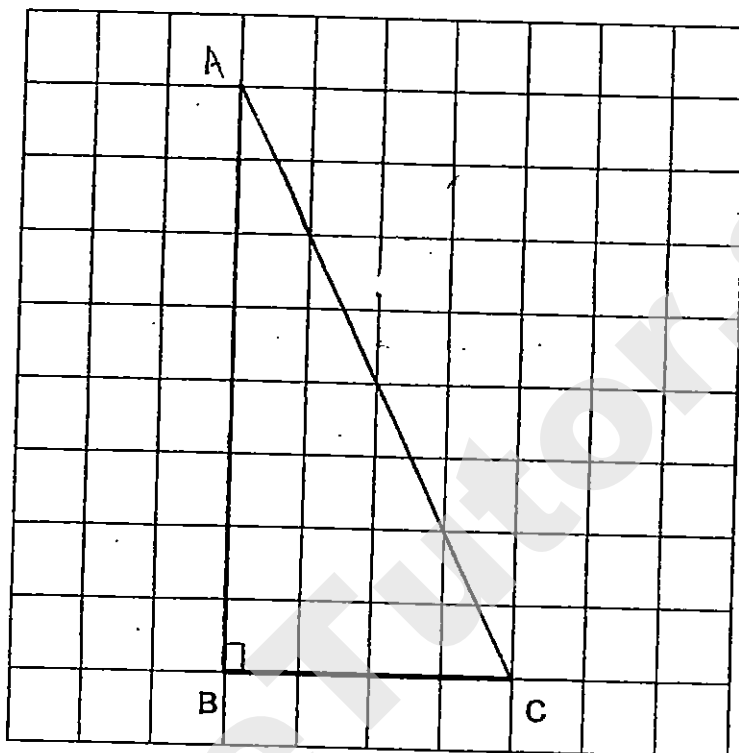
11. Andy, Benny and Carl had a total of $540. Benny had $30 more than Andy. Carl had thrice as much money as Benny. How much money did Andy and Benny have altogether?

Ans: _____ [4]

9

12. Stacey spent $\frac{2}{7}$ of her money on some muffins and $\frac{3}{10}$ of her remaining money on another 9 muffins. How many muffins did she buy in total?

Ans: _____ [4]

13. Bala bought some apples and bananas. 72% of the fruits were apples. He used 48 apples to make apples pies and was left with twice as many apples as bananas. How many fruits did Bala have at first?

Ans: _____ [4]

14. The total cost of 3 buns and 4 hot dogs is $9.60. The total cost of 5 buns and 8 hot dogs is $18. Find the cost of a dozen buns.

Ans: _____ [4]

15. A box with 4 identical balls has a mass of 2.4 kg. When 2 more such balls are added into the box, the mass becomes 3.34 kg. What is the mass of the box when it is empty?

Ans: _____ [4]
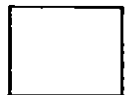
16. 1 almond cookie cost $5. 1 chocolate cookie cost $3. Jenny paid $102 for both almond cookies and chocolate cookies. She bought 4 times as many chocolate cookies as almond cookies.
   (a) How many cookies did she buy altogether?
   (b) How much more money did she spend on chocolate cookies than almond cookies?

Ans: (a) _____ [3]

(b) _____ [2]

14

17. Bill spent $\frac{1}{6}$ of his money and an additional $11 on food. He then spent $\frac{2}{3}$ of the remaining money and an additional $7 on books. Given that he was left with $16, how much money did Bill have at first?

Ans: _____ [5]

(Go on to the next page)

18. Belle started a savings plan by putting 2 coins in her piggy bank every day. Each coin was either a 20¢ or 50¢ coin. Her mother also put in a $1 coin in her piggy bank every 5 days. The total value of the coins after 190 days was $192.
    (a) How many coins were there altogether?
    (b) How many of the coins were 50¢ coins?

Ans: (a) _____ [2]

     (b) _____ [3]

END OF PAPER.
PLEASE CHECK YOUR WORK CAREFULLY.

EXAM PAPER 2015
LEVEL : PRIMARY 5
SCHOOL : CATHOLIC HIGH SCHOOL
SUBJECT : MATHEMATICS
TERM : SA2

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

Q16. 1 912 028   Q17. 100 ➜ 200 x 0.5 = 200 x ½ =100

Q18. 6 ➜ ÷3 9:6÷3 = x 2 3:2x2, = 6:4

Q19. 1050mlitre ➜ 1.05litre = 1050mlitre

Q20. $\frac{1}{10}$ ➜ $\frac{80}{500} = \frac{1}{10}$

Q21. 12 years ➜ 48÷4=12

Q22. $\frac{1}{9}$m ➜ $\frac{1}{6}$ x $\frac{2}{3}$m = $\frac{2}{18}$m = $\frac{1}{9}$m

Q23. 32cm² ➜ Unshaded area = shaded area = $\frac{1}{2}$ x 64cm² = 32cm²

Q24. 13 unit cubes
Level I -1cube, Level 2 – 1 cubes, Level 3 – 3-1cubes, Level 4-1 cubes, Level 5-9 cubes .

Q25. 230° ➜ 360° – 90° – 40° = 230°

Q26. 680
100% - 20% = 80%,
No. of standing people = 80% x 850 = $\frac{80}{100}$ x 85cents = 680

Q27. $\frac{5}{12}$km ➜ Distance that John ran = $\frac{1}{2}$ x $\frac{5}{6}$km = $\frac{1}{2}$ x $\frac{10}{12}$km = $\frac{5}{12}$km

Q28. 10cm² ➜ Shaded area = ½ x (5cm x 4cm) = ½ x 20cm² = 10cm²

Q29. $70
$\frac{2}{7}$ of Adam's money = $\frac{1}{5}$ of Benjamin's money = $\frac{2}{10}$ of Benjamin's money,
10u – 7u = 3u = $21, 10u = $\frac{10}{3}$ x $21 = $7 = $70

Q30. 30°
∡ACB = 60°,
∡FCD = ∡ACB (vertical opp ∡s) = 60°, ∡cdg = 90°,
          ∡fcg = ∡cgd = 180° – 60° – 90° = 30° (ALT ∡s)

Q1. 1071 → 9U =567, 1u=567÷9, 8u+9u=17u=17x63=1071

Q2. 9 → No. of stamps in 5 albums = 528-483 = 45, no. of stamps in album = 45 ÷ 5 = 9

Q3. 1.41m → Ben's height = 152m – 22cm = 152cm – 22cm = 130cm,
Average height = $\frac{130cm+152cm}{2}$ = $\frac{282cm}{2}$ = 141cm = 1.41m

Q4. 65% → Percentage of allowance left = 100% - 20% = 65%

Q5. 97.5cm² → Area of triangle = ½ x (15cm x 13cm) = ½ x 195cm² = 97.5cm²

Q6. 1900cm²
Area of square = 50cm x 50cm = 2500cm²
Area of triangle = ½ x 40cm x 30cm = 20cm x 30cm = 600cm²
Shaded area = 2500cm² – 600cm² = 1900cm².
The area of the shaded part is 1900cm²

Q7. 18 2u=12, 1u=12÷2=6, 3u=3x6=18

Q8. $105 2u=$50 x $60=$110, 1u=$110÷2=$55, Alex's money at first =$55 +$50=$105

Q9. $131.61
100% - 18%=82%,
Price after discount = 82% x $150 = $123,
Price after GST = 107% x $123 = $131.61.

Q10a. **SEE PICTURE**   Q10b. 64° ∡ACB is 65°
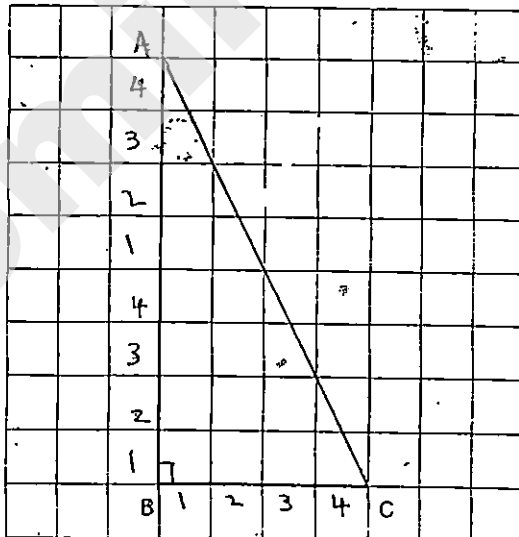
Q11. $198
5u = $540 – (4 x $30) = $540 - $120 = $420
2u = ⅖ x $420 = 4168
Andy's money + Benny's money = $168 +$30=$198

2

Q12. 21

$\frac{1}{10}$ of remaindere = 9 ÷ 3 = 3 muffins bought,

$\frac{10}{10}$ of remainder = 10 x 3 = 30 muffins bought,

$\frac{2}{7}$ of total = $\frac{2}{5}$ x 30 = 12 muffins bought.

Total muffins bought = 12 + 9 = 21

Q13. 300

100u – 72u = 28u

72u - 56u = 16u = 48

100u = $\frac{100}{10}$ x 48 = 300

Q14. $14.40

Cost of 3 buns + 4 hot dogs = $9.60

Cost of 5 buns + 8 hot dogs = $18

Cost of 6 buns + 8 hot dogs = 2 x $9.60 = $19.20

Cost of 1 bun = $19.20 - $18 = $1.20

Cost of 12 buns = 12 x $1.20 = $14.40

Q15. 0.52kg

Mass of 2 balls = 3.34kg – 2.4kg = 0.94kg

Mass of 4 balls = 2 x 0.94kg = 1.88kg

Mass of box = 2.4kg - 1.88lg = 0.52kg

Q16.a. 30   Q16b. 442

Value of 1 group = $5 + (4 x $3) = $5 + 412 = $17

No. of groups = 102 ÷ 17 = 6

No. of cookies = 6 x 5 = 30

No. of almond cookies = 30 ÷ 5 = 6

No. of chocolate cookies = 30 – 6 = 24

Cost of almond cookies = 6 x $5 = $30

Cost of chocolate cookies = 24 x $3 = $72

Difference = $72 - $30 = $42

Q17 496

⅓ of remaining = $7 + $16 = $23

Remaining = 3 x $23 = $69

⅚ of total = $69 + $11 = $80

Total = $\frac{6}{5}$ x $80 = $96

3

Q18a. 418   Q18b. 260

$190 \div 5 = 38$

No. of coins = 92 x 190) +38 = 380 +38 = 418

Assume all are 20¢ coins = 380 x $0.20= 476

Money given by Belle's mother = 38 x $1 = $38

$192 - $38 = $154

Total difference = 4154 - $76 = $78

Difference between one 50¢ coin and one 20¢ coin = $0.50 - $0.20 = $0.30

No. of 50¢ coins = 78 ÷ $0.30 = 260

THE END

Name : _____ (   )

Class : Primary 5 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

Primary 5 Mathematics

2015 Semestral Assessment Two

Paper 1

Booklet A

27 October 2015

Total Time for Booklets A and B : 50 min

<u>INSTRUCTIONS TO CANDIDATES</u>

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 <u>NOT</u> 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. How many thousands are there in 10 million?

   1) 1 000 000

   2) 100 000

   3) 10 000

   4) 1 000

2. Express $8\frac{37}{1000}$ as a decimal.

   1) 8.37

   2) 8.037

   3) 8.307

   4) 80.37

3. Convert 62 090 mℓ to ℓ.

   1) 6.209 ℓ

   2) 62.09 ℓ

   3) 62.9 ℓ

   4) 620.9 ℓ

2

4. What is the missing number in the box?

$$\boxed{?} \div 100 = 13.6$$

1) 0.136

2) 1.36

3) 136

4) 1360

5. In the figure, not drawn to scale, ABC is a straight line. Find the sum of $\angle x$ and $\angle y$.
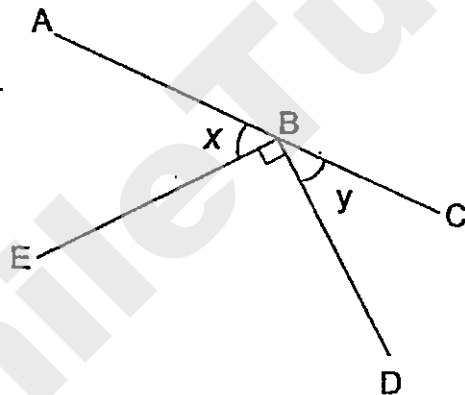
1) 45°

2) 60°

3) 90°

4) 120°

6.   Find the volume of a cube of edge 8 cm.

 1) 512 cm^3

 2) 384 cm^3

 3) 64 cm^3

 4) 48 cm^3

7.   Find the maximum number of 1-cm cubes that can be put into the box shown below.

10 cm

6 cm

18 cm
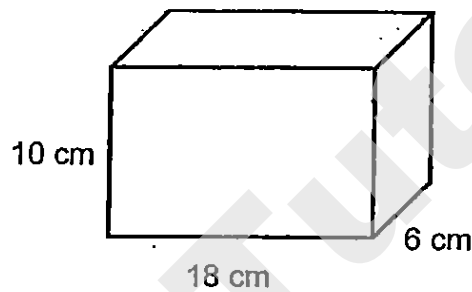
 1) 1080

 2) 180

 3) 108

 4) 34

8.   At a health workshop, there are 60 participants.   15% of the participants are females.   Find the number of male participants.

 1) 9

 2) 25

 3) 45

 4) 51

4

9. In the figure shown below, PQ and XY are straight lines. Which of the following statements is correct?
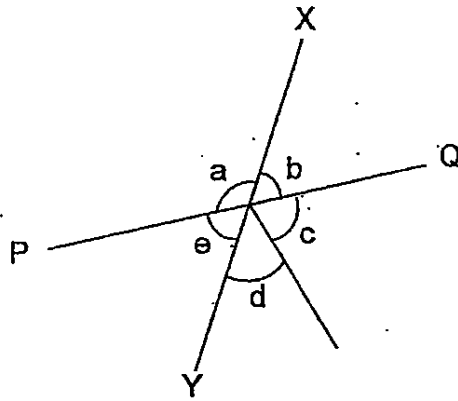
1) $\angle\,a = \angle\,d$

2) $\angle\,c = \angle\,e$

3) $\angle\,c + \angle\,d = \angle\,a$

4) $\angle\,a + \angle\,b = \angle\,d$

10. In a box, there were big apples and small apples. 135 of the apples were big and 365 of the apples were small. What percentage of the apples was small?

1) 1.35 %

2) 3.65 %

3) 27 %

4) 73 %

11. Mrs Leong bought some minced meat. She made 90 meat balls and had 2 kg of minced meat left. She used 35 g of minced meat for each meat ball. How much minced meat did she buy?

1) 1.15 kg

2) 2.315 kg

3) 3.17 kg

4) 5.15 kg

12. The pupils in a camp were divided equally into Team Ace and Team Bravo. The ratio of the number of boys to the number of girls in Team Ace was 3 : 8. There were 48 girls in Team Ace. What is the total number of pupils at the camp?

1) 66

2) 132

3) 176

4) 352

13. Mr Sng is 54 years old. The ratio of his age to Adam's age is 3 : 1. Find the ratio of Mr Sng's age to Adam's age in 4 years' time.

1) 7 : 5

2) 27 : 11

3) 29 : 9

4) 29 : 11

6

14. In the triangle DEF, not drawn to scale, DE = DF. Find $\angle$FDE.
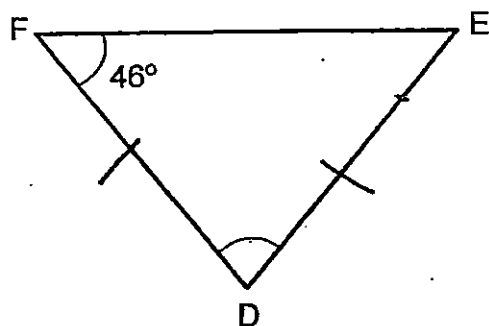
1) 46°

2) 67°

3) 88°

4) 92°

15. Which one of the following is bigger than $\frac{3}{4}$?

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

2) $\frac{3}{5}$

3) $\frac{5}{8}$

4) $\frac{13}{16}$

** END OF BOOKLET A**

7

Name : _____ ( )

Class : Primary 5 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

Primary 5 Mathematics

2015 Semestral Assessment Two

Paper 1

Booklet B

27 October 2015

Booklet A	20
Booklet B	20
Total (Paper 1)	40

Total Time for Booklets A and B : 50 min

<u>INSTRUCTIONS TO CANDIDATES</u>

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 <u>8</u> 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)

16. Find the product of 128 and 4000.

Ans : _____

17. What is the missing value in the box? Leave your answer as a mixed number.
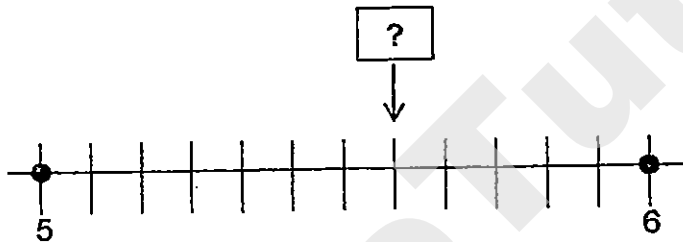
Ans : _____

18. The ratio of Dawn's marbles to Jovan's marbles was 4 : 7. Jovan gave away half of his marbles. What would be the ratio of Dawn's marbles to Jovan's marbles?

Ans : _____

2
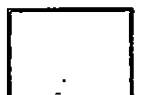
19. The mass of 12 identical packets of instant noodles is 1.02 kg. Find the total mass of 4 such packets of instant noodles.

Ans : _____ kg

20. Express 91 m 3 cm in metres.

Ans : _____ m

21. Mrs Wong prepared some lemonade for her family. She kept $\frac{2}{5}$ of it and divided the rest equally among her four children. What fraction of the lemonade did each child get?

Ans : _____

22. Study the following number pattern. How many times does the number 12 appear in the first 23 numbers?

6, 8, 12, 17, 6, 8, 12, 17, 6, 8, 12, 17, ...

↓
1st

Ans : _____

23. What percentage of the figure is shaded?
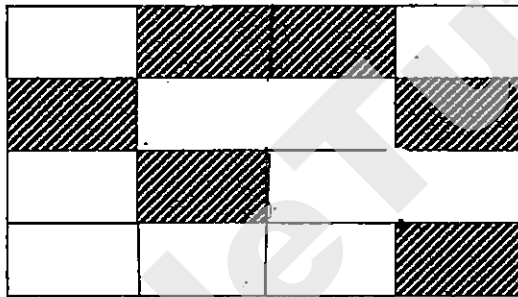
Ans : _____ %

4

24. In the figure below, not drawn to scale, ABCD is a trapezium. Find ∠ABC.
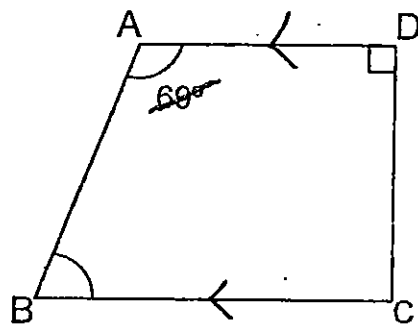
Ans : _____ °

25. The solid below is made up of 1-cm cubes. Find the volume of the solid.
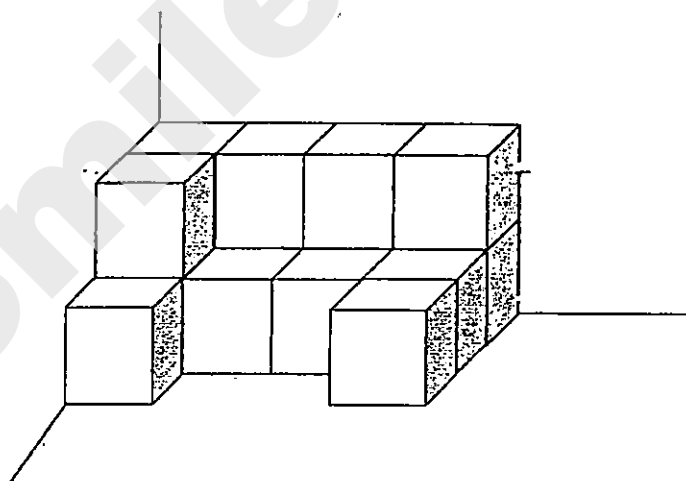
Ans : _____ cm³

26. Miya is 1.4 m tall. She is 0.07 m taller than Jordyn. Find the total height of the two children.

Ans : _____ . m

27. Mdm Han made 56 bookmarks. She gave Lusin $\frac{3}{8}$ of the bookmarks. Then she gave Samy $\frac{1}{5}$ of the remaining bookmarks. How many more bookmarks than Samy did Lusin receive?

Ans : _____
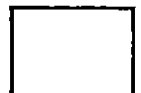
28. What is the area of triangle EFG as shown in the figure below?
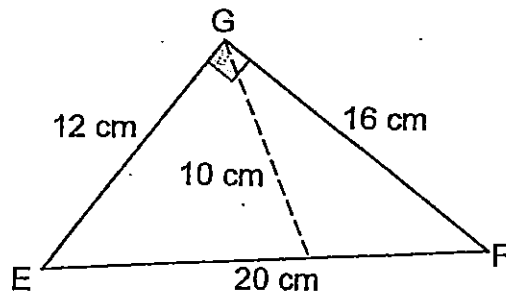
Ans : _____ cm²

29. Every day, Katie will complete an average of 45 sit-ups. Find the total number of sit-ups completed by Katie in 3 weeks.

Ans : _____

30. The figure below is not drawn to scale. XYZ and PYR are straight lines. $\angle$ XYR = 147° and $\angle$ QYR = 102°. Find $\angle$ QYZ.

Ans : _____ °

END OF PAPER 1

8
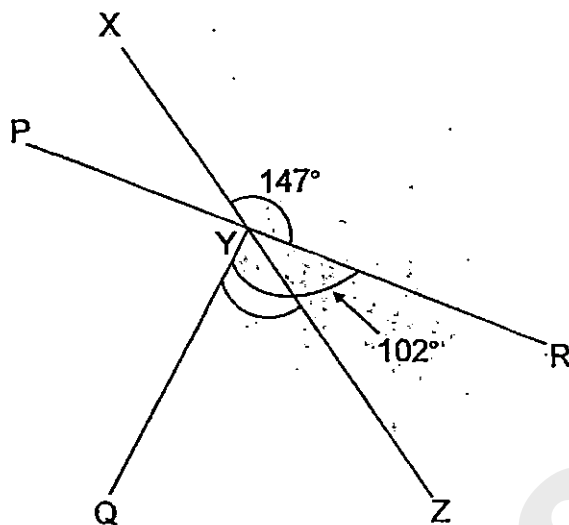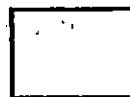
Name : _____ (   )

Class : Primary 5 _____

CHIJ ST NICHolas GIRLS' SCHOOL (PRIMARY)

Primary 5 Mathematics

2015 Semestral Assessment Two

Paper 2

27 October 2015

Paper 1	40
Paper 2	60
Total	100

_____
Parent's / Guardian's Signature

Time : 1 hour 40 minutes

<u>INSTRUCTIONS TO CANDIDATES</u>

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 <u>15</u> 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)

1. Fresh Dry Cleaning charges the cleaning of towels and curtains as shown below.

| Towels (per kg) | $8.00 |
| Curtains (per kg) | $9.50 |

Pella sent 15 kg of towels and some curtains for cleaning. She paid $234 in total. Find the mass of curtains Pella sent for cleaning.

Ans : _____ kg

2. In the figure, PQR is an isosceles triangle. The ratio of the length PQ to the length QR is 5 : 8. The perimeter of the triangle is 531 cm. Find the length of PQ.

Ans : _____ cm

2

Need a home tutor? Visit smiletutor.sg
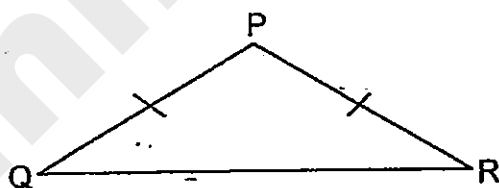
3. Asako packed an average of 84 books on 2 shelves. Then she packed a total of 267 books on another 3 shelves. Find the average number of books Asako packed on all the shelves.

Ans : _____

4. At a spelling quiz, participants had to obtain a minimum score in the first round to qualify for the second round. There were 120 participants in the first round. The table shows the number of participants for each score.

Score	Number of participants
0 – 10	21
11	18
12	39
13	19
14	13
15	10

35% of the participants qualified for the second round. Based on the table, what was the lowest score of a participant who qualified for the second round?

Ans : Score of _____

5. Pauline used a calculator to find the product of a 4-digit number and a 1-digit number. For the 1-digit number, she made a mistake by pressing 9 instead of 8. The incorrect answer she obtained was 13 608. What should be the correct answer?

Ans : _____

4

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

(50 marks)

6. Carter had a piece of wooden plank. He made 12 markings on it. Each marking is 80 cm apart as shown below. Find the length of the plank in metres.
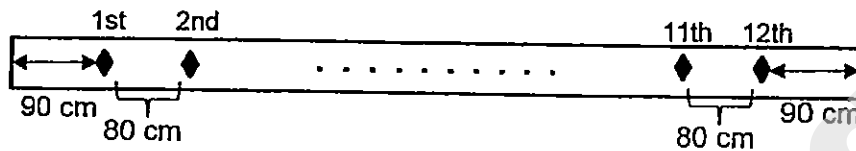
Ans : _____ . [3 m]

7. Ethan sold 60% of the funfair tickets on Friday. He sold $\frac{3}{8}$ of the remaining tickets on Saturday and the rest of the tickets on Sunday. What percentage of the funfair tickets did he sell on Sunday?

Ans : _____ . [3 m]

8. A group of 24 people collected some newspapers for a recycling project. Each adult collected 16 kg of newspapers while each child collected 9 kg of newspapers. The adults collected 184 kg more newspapers than the children. Find the number of adults in the group.

Ans : _____ . [3 m]

9. The figure below is not drawn to scale. BCD is a straight line. Find ∠ABC.

Ans : _____ . [3 m]

6
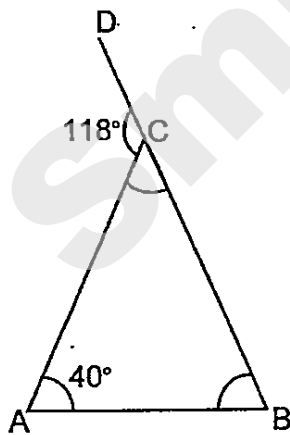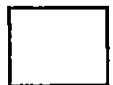
10. The solid shown below is made up of a cube and a cuboid. Find the total volume of the solid.

36 cm

12 cm
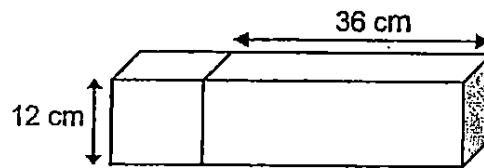
Ans : _____ [3 m]
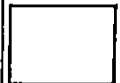
11. Mr Gopal donated $\frac{1}{6}$ of his money plus \$12 to the Red Cross Society. He spent $\frac{2}{3}$ of the remaining money and an additional \$26 on a meal. He had \$83 left. How much money did Mr Gopal have at first?

Ans : _____ [4 m]

12. At a school camp, $\frac{1}{4}$ of the pupils in Team A is equal to $\frac{3}{5}$ of the pupils in Team B. There were 112 more pupils in Team A than Team B. What is the number of pupils in Team A?

Ans :_____ [4 m]
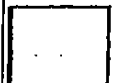
13. Mega Company stored 4290 crates in 3 warehouses, A, B and C. The ratio of the number of crates in A to the number of crates in B was 3 : 2. The ratio of the number of crates in B to the number of crates in C was 1 : 5.

a) How many more crates were stored in C than A?

b) What percentage of all the crates was stored in A?

Ans : a) _____.[3 m]

b) _____ [2 m]

14. The figure below is not drawn to scale. DEFG is a parallelogram.

a) Find ∠DGF

b) Find ∠DGH
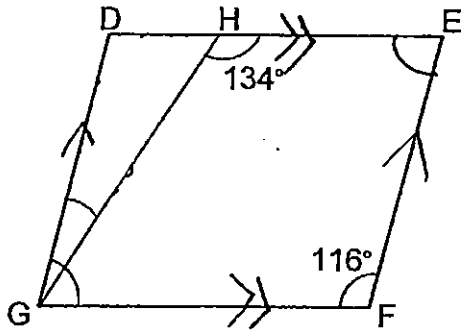
Ans : a) _____ . [2 m]

b) _____ [2 m]

15. Nermin and her sister went shopping at Cool Boutique with a total sum of $700. Nermin bought a jacket using 40% of the money. Her sister bought a pair of sneakers at $70. In addition, both sisters had to pay 7% GST for the two items. What was the total amount of money both of them had left?

Ans : _____ . [5 m]

16. At the market, the prices of some fruits and vegetables are shown below.

Sweet potatoes	750 g for $2.60
Apples	4 for $4.65
Mushrooms	?

Baylee bought 3 kg of sweet potatoes, 24 apples and 200 g of mushrooms. She paid $46.40 altogether. Find the price of 100 g of mushrooms.

Ans : _____ [5 m]

17. At Tea Place, there were twice as much Jasmine tea leaves as Oolong tea leaves for sale. 330 kg of Jasmine tea leaves and 85 kg of Oolong tea leaves were sold. In the end, the amount of Jasmine tea leaves was $\frac{1}{3}$ of the amount of Oolong tea leaves. How many kg of Oolong tea leaves were there for sale at first?

Ans : _____ [4 m]

18. The figure shows a triangle X on one side of square PQRS. The perimeter of the square is 84 cm. The height of triangle X is the same as the length of one side of the square. Find the total area of the shaded parts.
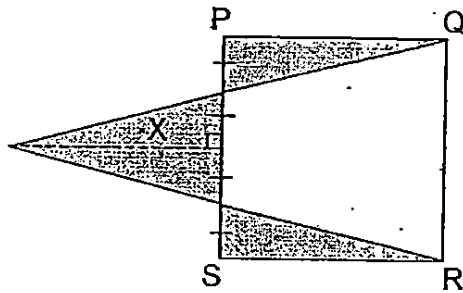
Ans : _____ [4 m]

** END OF PAPER **

EXAM PAPER 2013
LEVEL   : PRIMARY 5
SCHOOL : CHIJ ST NICHOLAS GIRLS SCHOOL (PRIMARY)
SUBJECT : MATHEMATICS
TERM   : SA2

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

Q16. 512 000   Q17. $5\frac{7}{12}$

Q18. 8 : 7 ➔ D : J, 4 : 7, 8 : 14, 8:7

Q19. 0.34kg ➔12 pkts➔ 1.02kg, 4 pkts➔ 1.02 ÷ 3 = 0.34

Q20. 91.03m➔ 1m = 100cm, 91m 3cm = 91.03m

Q21. $\frac{3}{20}$ ➔ 1 - $\frac{2}{5}$ = $\frac{3}{5}$, $\frac{3}{5}$ ÷ 4 = $\frac{3}{5}$ x $\frac{1}{4}$ = $\frac{3}{20}$

Q22. 6➔ 23 ÷ 4 = 5 R 3 ≈ 6

Q23. 37.5%➔ $\frac{6}{16}$ x $\frac{100}{1}$ = $\frac{75}{2}$ = $\frac{375}{10}$ = 37.5

Q24. 111° ➔180° – 69° = 111°

Q25. 15cm³➔ 1 x 1 x 1 =1, 10 + 5 = 15, 15 x 1 = 15

Q26. 2.73m➔ J➔ 1.4 – 0.07=1.33, 1.33 +1.4 = 2.73

Q27. 14 ➔1u 56 ÷8 =7, 3u-u =2u, 2 x 7 = 14

Q28. 96cm²➔ $\frac{1}{2}$ x 12 x 16 = 96

Q29. 945➔ 7 x 3 = 21, 21 x 45 = 945

Q30. 69° ➔∠ZYR 180 − 147 = 33, 102 − 33 = 69

Q1. 12kg ➔ 15 x 8 = 120, 234 – 120 = 114, 114 ÷ 9.50 = 12

Q2. 147.5cm➔ PQ:QR, 5:8, 5u x 2 = 10u, 10u +8u=18u, U➔ 531÷ 18 = 29.5, 29.5 x 5 = 147.5

Q3. 87➔ total➔ 84 x 2 = 168, 168 + 267 = 435, 435 ÷ 5 = 87

Q4. 13➔ Second rd $\frac{35}{100}$ x 120 = 42, 19 + 13 +10 = 42

Q5. 12 096➔ 136 08 ÷ 9 = 1512, 1512 x 8 = 12 096

Q6. 10.6m ➔1m = 100cm , 90 x 2 = 180, 12 – 1 = 11, 11 x 80 = 880,
880 + 180 = 1060, 1060cm = 10.6m

Q7. 25% ➔10u – 6u = 4u, 4u = 8p, u = 2p, , 10u=20p, $\frac{5}{20}$ x 100 = 25

Q8. 16➔ 24 x 16 = 384, 384 ÷184 = 200, 200 ÷ (16 + 9) = 200÷25=8, 24 – 8 = 16

Q9. 78°➔ $\angle ACB$ ➔ 180° − 118° = 62°, $\angle ABC$ ➔ 180° − 62° − 40° = 78°

Q10. 6912cm³ ➔ A ➔36 x 12 x 12 = 5184, B ➔12 x 12 x 12 = 1728, 5184 + 1728=6912.

Q11. $406.80➔ IP ➔ 26 + 83= 109, 3P➔ 109 x 3 = 327, 5U➔ 327 + 12 = 339,
1U➔ 339 ÷ 5 = 67.80, 67.80 x 6 = 406.80

Q12. 192➔ $\frac{1}{4}$A =
$\frac{3}{5}$B, $\frac{3}{12}$ $A = \frac{3}{5}B$, 12 − 5u = 7u, 7u 112, 1u 112 ÷ 7 = 16, 16 x 12 = 192

Q13a. 2002 ➔1u ➔4290÷15 = 286, 10u − 3u = 7u, 7u 286 x 7 = 2002.

Q13b. 20% ➔3u➔ 286 x 3 = 858, $\frac{858}{4290}$ x 100 = 20

Q14a. 64° Q14b. 18°➔ $\angle DHG$➔ 180° − 134° = 46°, $\angle DGH$➔ 180° − 46° −
116° = 18, $\angle DGF$ ➔180° − 116° = 64

Q15 $325.50➔ J ➔700 x $\frac{40}{100}$ = 280, 280 x $\frac{107}{100}$ = 299.60, 70 x $\frac{107}{100}$ = 74.90, 74.90 +
299.60 = 374.50, 700 − 374.50 = 325.50

Q16. $4.05 ➔3kg = 3000g, 3000 ÷ 750 =4, SP➔ 4x2.60=10.40, 24÷4=6, A ➔ 6 x
4.65 = 27.90, 10.40 +27.90=38.30, 46.40 − 38.30 = 8.10, 8.10÷2 = 4.05

Q17. 181kg➔ 5u➔ 330 – (85 x 2) = 330 -170=160, 1u ➔160 ÷ 5 =32, 32 x 3
=96, 96 +85 = 181

Q18. 220.5cm² ➔84 ÷16 = 5.25, 5.25 x 2 = 10.5, 5.25 x 4 = 21, X 0.5 x 21 x 10.5 =
110.25, 0.5 x 21 x 5.25 = 55.125, 55.125 x 2 = 110.25, 110.25 + 110.25 = 220.5

METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887

END-OF-YEAR EXAMINATION 2015
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: 28 October 2015

```
20
```

This booklet consists of 8 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)

1.   Round off 650 999 to the nearest thousand.

   (1)   650 000

   (2)   651 000

   (3)   660 000

   (4)   700 000

2.   The height of the flag pole shown below is about _____.
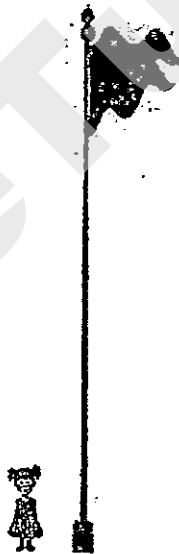
   (1)   6 cm

   (2)   60 cm

   (3)   600 cm

   (4)   6 000 cm

3. What is the value of 9 hundreds, 50 tenths and 7 thousandths?

    (1) 900.507

    (2) 905.007

    (3) 905.570

    (4) 950.070

4. Express $1\frac{3}{4}$ hour in minutes.

    (1) 90 min

    (2) 105 min

    (3) 134 min

    (4) 145 min

5. Which one of the following has the same value as $\frac{2}{3} \div 8$?

    (1) $\frac{2}{3} \times \frac{1}{8}$

    (2) $\frac{2}{3} \times 8$

    (3) $\frac{3}{2} \times \frac{1}{8}$

    (4) $\frac{3}{2} \times 8$

(Go on to the next page)

6. $\frac{6}{10}$ is the same as _____.

(1) 0.06%

(2) 0.6%

(3) 6%

(4) 60%

7. Find the value of $\frac{3}{4} + 1\frac{2}{3}$.

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

(1) $1\frac{5}{12}$

(2) $1\frac{7}{12}$

(3) $2\frac{5}{12}$

(4) $2\frac{7}{12}$

8. Express 0.34 as a fraction in the simplest form.

(1) $\frac{17}{50}$

(2) $\frac{34}{100}$

(3) $\frac{17}{100}$

(4) $\frac{34}{1000}$

4

9. Caitlyn played 14 tennis matches. Sara played 6 fewer matches than Caitlyn. Find the ratio of the number of matches Caitlyn played to the total number of matches both girls played.

   (1)   7 : 3

   (2)   7 : 4

   (3)   7 : 10

   (4)   7 : 11

10. In the figure below, ABCD is a rectangle and CED is an equilateral triangle. Find $\angle x$.

   (1)   30°

   (2)   45°

   (3)   60°

   (4)   90°

(Go on to the next page)
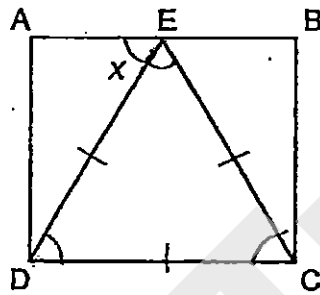
11. In the figure below, OAB is an isosceles triangle. ∠DOB is twice the size of ∠COD and ∠COD = ∠COA = 70° . Find ∠OAB.
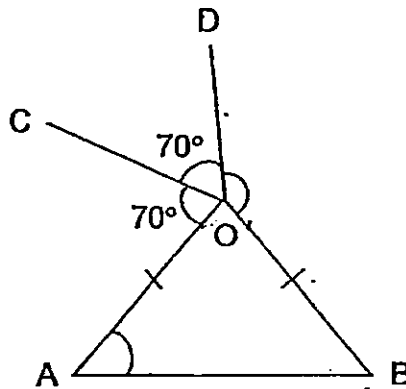
(1) 35°

(2) 50°

(3) 70°

(4) 80°

12. May and Jane shared $474. May received twice as much money as Jane. How much money did May receive?

(1) $118.50

(2) $158

(3) $237

(4) $316

13. The bar graph below shows the mass of 4 boys.
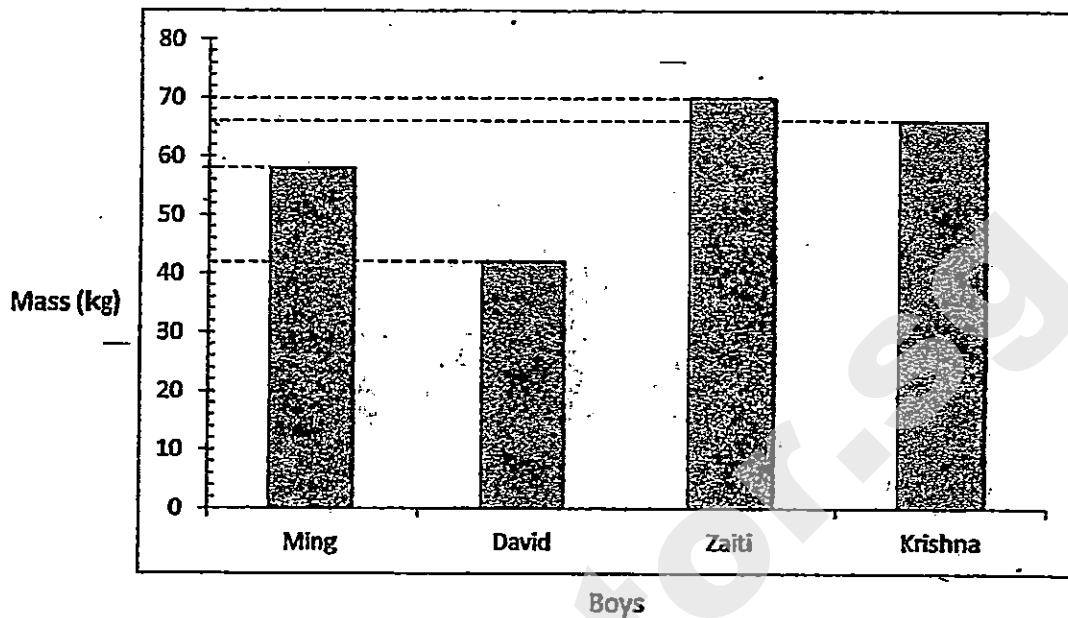
What is the average mass of the 4 boys?

(1) 57 kg

(2) 59 kg

(3) 228 kg

(4) 236 kg

14. The ratio of the number of men to the number of women was 4 : 3. The ratio of the number of women to the number of children was 5 : 2. What was the ratio of the number of men to the number of women to the number of children?

(1) 4 : 3 : 2

(2) 4 : 8 : 2

(3) 12 : 15 : 10

(4) 20 : 15 : 6

7 (Go on to the next page)

15. The figure below is made up of ten 4-cm squares. Find the area of the shaded part.
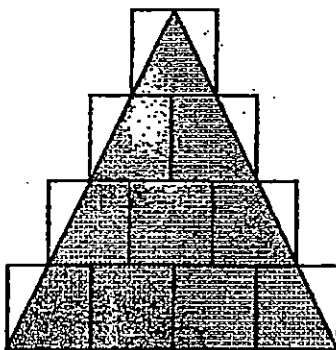
(1)   40 cm²

(2)   128 cm²

(3)   160 cm²

(4)   256 cm²

(Go on to Booklet B)

METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887

END-OF-YEAR EXAMINATION 2015
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 :   28 October 2015

Parent's Signature : _____

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

This booklet consists of <u>8</u> 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. What is the greatest odd number that can be formed using the digits 2, 8, 0, 7, 3 ?

Ans : _____

17. Find the value of $\dfrac{4}{9} \times \dfrac{3}{10}$. Give your answer in the simplest form.

Ans : _____

18. $4.08 \times 20 = 1.08 \times 20 + \boxed{} \times 20.$

What is the missing number in the box?

Ans : _____

(Go on to the next page)

19. Arrange the following from the smallest to the largest.

$$0.25, \quad 0.4, \quad \frac{4}{11}, \quad \frac{1}{10}.$$

Ans : _____ , _____ , _____ , _____ .

---

20. Express 2.09 as a percentage.

Ans : _____ %

---

21. At a furniture store, the usual price of a bed is $880. During a sale, Mrs Lim received a 15% discount. How much was the discount?

Ans : $ _____

Use the information below to answer questions 22 and 23.

The table shows the number of local and foreign visitors who visited the Singapore Zoo over a weekend.

Number of visitors				
Singaporean	Malaysian	Indonesian	Korean	Japanese
1250	290	185	95	180

22. What is the ratio of the number of local visitors to the number of foreign visitors? Give your answer in the simplest form.

Ans : _____

23. What percentage of the visitors were Japanese?

Ans : _____ %

4   (Go on to the next page)

24. There were 120 children in a camp. 84 of them were boys. What percentage of the children were girls?

Ans : _____ %

25. In the figure below, AB and CD are straight lines. $\angle AOC = 25°$. Find $\angle y$.
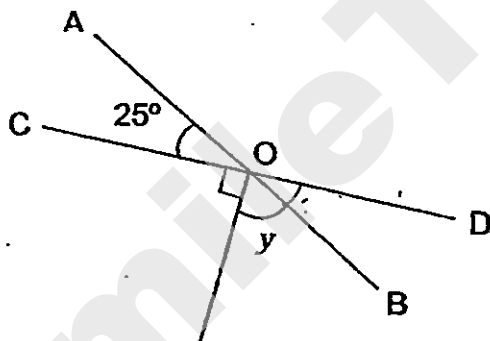
Ans : _____ °

(Go on to the next page)

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

Do not write in this space

26. Hakim has two cubes made of the same substance. The small cube is a unit cube with mass 14 g. The base of the large cube is three times that of the small cube. What is the mass of the large cube?
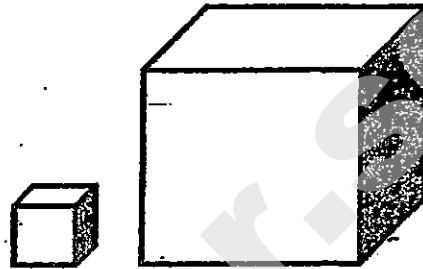
Ans. _____ g

27. In the figure below, AD, BE and FD are straight lines.
$\angle ACB = 23°$ and $\angle CDE = 46°$. Find $\angle CEF$.
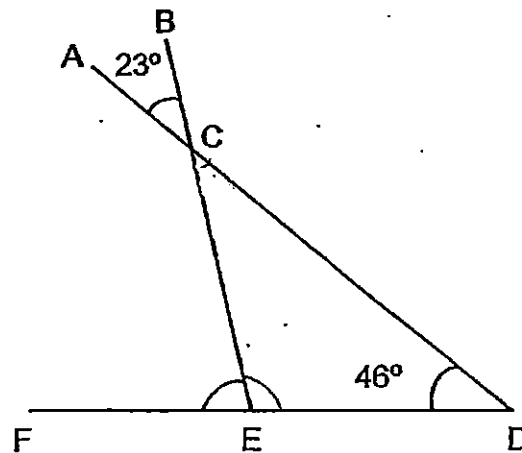
Ans : _____ °

28. In the figure, PQRS is a rectangle with PT = TQ. What fraction of the figure is shaded?

Ans : _____
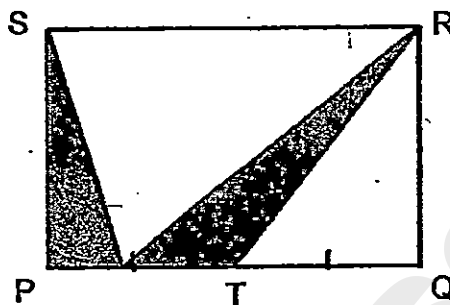
29. In the figure below, ABCD is a square. AEF is a straight line. ∠DEF = 110° and ∠BAE = 40°. Find ∠ADE.

Ans : _____ °

(Go on to the next page)
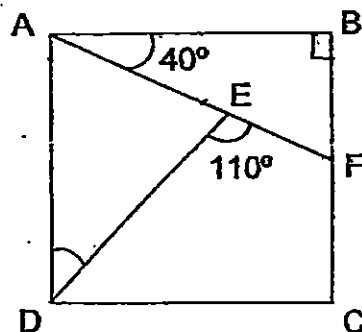
30. The ratio of the number of oranges to the number of lemons in a basket was 3 : 5. After 48 oranges were sold, the ratio of the number of oranges to the number of lemons became 1 : 2. How many lemons were there in the basket at first?

Ans :

End of Paper

METHODIST GIRLS' SCHOOL (PRIMARY)
Founded in 1887

END-OF-YEAR EXAMINATION 2015
PRIMARY 5
MATHEMATICS

PAPER 2

Duration: 1hour 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.
Write your answers in this booklet.
The use of an approved calculator is expected, where appropriate.

Name: _____ (   )

Class: Primary 5._____

Date: 28 October 2015

Parent's Signature : _____

/60
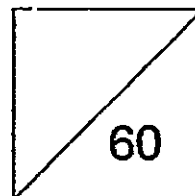
This booklet consists of 12 printed pages including this page.

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)

Do not write in this space

1. The ratio of the number of stickers Sandy has to the number of stickers Tina has is 5 : 4. Both girls have a total of 117 stickers. How many stickers does Tina have?

    Ans : _____

2. May bought $\frac{3}{4}$ kg of sugar. She used $\frac{1}{2}$ of it to bake some muffins.
    How much sugar did she use to bake muffins?
    Give your answer in grams.

    Ans : _____ g

3. Paul had $630. He spent $70 on books and $\frac{2}{7}$ of the remainder on calculators. How much money had he left?

    Ans : $ _____

(Go on to the next page)

4. In the figure below, PQR and PRS are isosceles triangles.
∠PQR = 36° and ∠QPS = 96°. Find ∠PRS.

Ans: _____ °
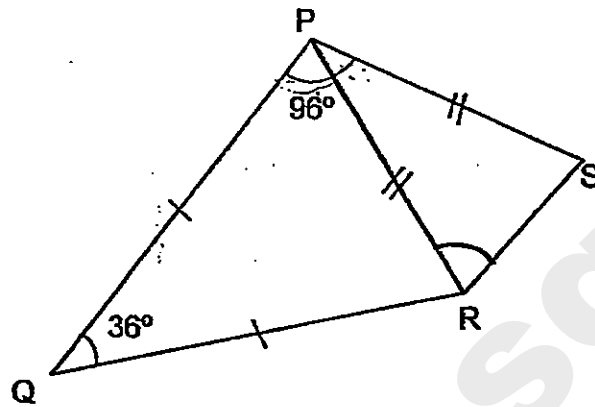
5. Dinesh put some 1-cm cubes into a rectangular box as shown below.
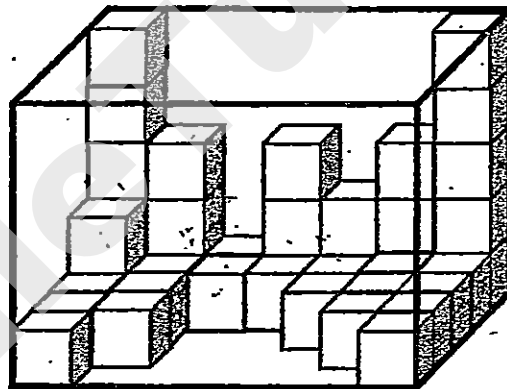
(a) What is the volume of the rectangular box?
(b) How many **more** such cubes are needed to fill the box completely?

Ans: (a) _____ cm³ [1]

(b) _____ [1]

3   (Go on to the next page)

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

Do not write in this space

6. The table shows the T-shirt sizes of class 6A, 6B and 6C.
   The average number of pupils in the 3 classes is 38.

Size of T-shirt	Class 6A	Class 6B	Class 6C
S	9	12	0
M	21	19	24
L	8	?	13

   (a) How many pupils in Class 6B ordered T-shirt Size L?
   (b) What is the average number of pupils who ordered size S in the 3 classes?

   Ans: (a) _____ [2]

   (b) _____ [1]

(Go on to the next page)

7. A rectangular tank measures 30 cm by 12 cm by 15 cm is filled with water from a tap. The tank is $\frac{3}{5}$ - filled with water after 3 minutes. Find the volume of the water that flowed from the tap per minute.
Give your answer in litres and millilitres.

15 cm

12 cm

30 cm
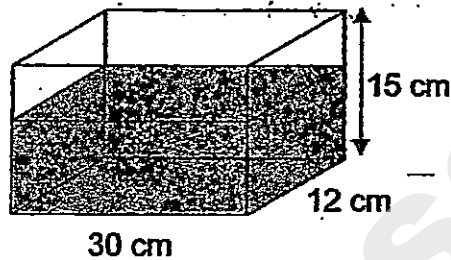
Ans: _____ [3]

8. Mark bought some blue, red and green marbles. He bought 72 blue marbles. The ratio of the number of red marbles to the number of blue marbles is 5 : 6. The number of red marbles is twice that of the number of green marbles. How many green marbles did Mark have?

Ans: _____ [3]

(Go on to the next page)

9. Mae, Wei Ling and Siti bought a present for $45. In addition, they had to pay 7% GST.

(a) Find the amount of GST paid.
(b) How much did each person pay if the cost of present was shared equally among the 3 girls?

Ans : (a) _____ [1]

(b) _____ [2]

---

10. The figure is made up of a rectangle and a triangle. The area of the rectangle is 108 cm^2. The perimeter of the figure is 48 cm. Find the area of the figure.

13 cm

9 cm

Ans : _____ [3]

6 (Go on to the next page)
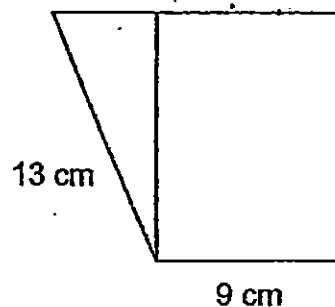
11. There were 72 children. $\frac{7}{12}$ of them were boys. The ratio of the total number of sweets the girls had to the total number of sweets the boys had was 1 : 2. There were a total of 756 sweets.

   (a) How many girls were there?
   (b) How many sweets did each boy have?

   Ans: (a) _____ [1]

   (b) _____ [3]

12. Some pupils were grouped into Group A, Group B and Group C. Group A had 36 more pupils than Group B. Group B and Group C had 114 pupils each. A number of pupils were transferred from Group A to Group B and Group C so that there was equal number of pupils in all 3 groups. What percentage of the members from Group A has transferred to Group B?

   Ans: _____ [4]

(Go on to the next page)

13. Yanti scored a total of 260.5 marks for English, Mathematics and Science. Her English marks were recorded incorrectly as 85. After her marks were amended, the average marks for the 3 subjects increased to 90.

(a) What was the actual mark for English?

(b) How many marks must she score for Chinese if she hopes to achieve an average mark of 92 for 4 subjects?

Ans: (a) _____ [2]

(b) _____ [2]

14. A rectangular piece of paper is folded as shown. Find

(a) ∠x

(b) ∠y

Ans: (a) _____ [2]

(b) _____ [2]

(Go on to the next page)
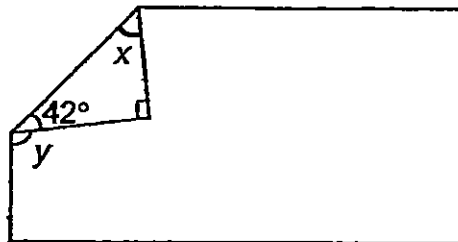
15. Study the pattern in the figure below. It shows the seating arrangement in a restaurant.
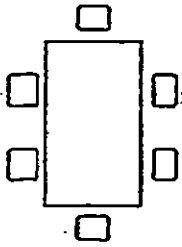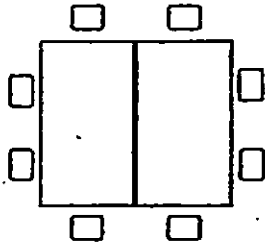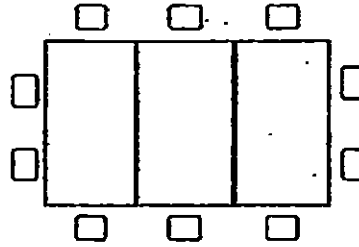
Figure 1   Figure 2   Figure 3

Figure Number	Number of tables	Number of seats
1	1	6
2	2	8
3	3	10
4	4	(a) _____

(a) Find the number of seats needed for Figure 4.
(b) Find the number of seats needed for Figure 20.
(c) Each table measures 2 m by 1.2 m. Find the perimeter of Figure 12.

Ans: (a) _____ [1]

(b) _____ [1]

(c) _____ [2]

9

(Go on to the next page)
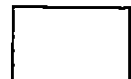
16. The ratio of Wei Ling's savings to her brother's savings is 7 : 3.. After Wei Ling gave her brother $234 of her savings, the ratio of Wei Ling's savings to her brother's saving is 2 : 3.

   (a) What was their total saving?
   (b) How much more money did her brother have than Wei Ling in the end?

_____ [3]

_____ [2]

17. Suresh bought some carrots and potatoes for $154. Each bag of potatoes cost $7 and each bag of carrots cost $5 more. Suresh bought 3 more bags of potatoes than carrots.

(a) How many bags of carrots did Suresh buy?
(b) How much did Suresh pay for the potatoes?

Ans: (a) _____ [3]

(b) _____ [2]

11 (Go on to the next page)

18. The figure below is made up of 3 identical squares and 1 triangle. LD is twice of AK. AB = BC = CD = DE = EF = FG. The perimeter of rectangle AGHK is 64 cm.

(a) Find the area of the shaded part of the figure.
(b) Find area of Triangle LBF.
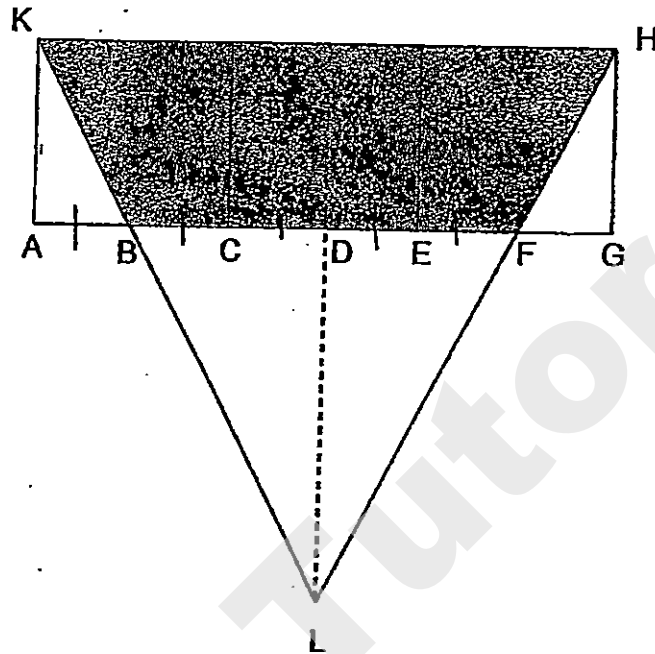
Ans: (a) _____ [3]

(b) _____ [2]

END .

12

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

Q16. 87203

Q17. $\frac{2}{15}$

Q18. 3 → 4.08 − 1.08 = 3

Q19. $\frac{1}{10}$, 0.25, $\frac{4}{11}$, 0.4

Q20. 209% → 2.09 x 100% = 209%

Q21. $132 → 880 − 748 = 132

Q22. 5:3
F 290 + 185 + 95 + 180 = 750
S : F
1250 : 750
125 : 75
25 : 15
5 : 3

Q23. 9%
Total 750 + 1250 = 2000
$\frac{180}{2000}$ x 100% = 9%

Q24. 30% → G → 120 − 84 = 36, $\frac{36}{120}$ x 100% = 30%

Q25. 65° → ∠AOD → 180 − 25 = 155, ∠Y → 155 − 90 = 65

Q26. 378g → 1u x 1u x 1u = 14g 3u x 3u x 3u = 27u³, 27 x 14 = 378

Q27. 69° → ∠CED → 180 − 23 − 46 = 111 ∠CEF → 180 − 111 = 69

Q28. ¼ → Rect → $\frac{4}{4}$, Shaded → ¼, Unshaded → $\frac{4}{4}$ − ¾ = ¼

Q29. 60°
ABF → 180 − 90 − 40 = 50
DEA → 180 − 110 = 70
DAE → 90 − 40 = 50
ADE → 180 − 70 − 50 = 60

L ➔ 10u
10u ➔ 48 x 10 = 480

Q1. 52 ➔ 9u ➔ 117, 1u ➔ 117÷9=13, T ➔ 4u, 4u ➔ 13 x 4 = 52

Q2. 375g
M ➔ ½ x ¾ = ⅜
⅜kg = 375g

Q3. $400
R ➔ 630 – 70 = 560
C ➔ $\frac{2}{7}$ x 560 = 160
Left ➔ 560 – 160 = 400

Q4. 78°
(180 – 36) ÷ 2 = 72
RPS ➔ 96 – 72 = 24
PRS ➔ (180 – 24) ÷ 2 = 78

Q5a. 175cm³ ➔ 7cm x 5cm x 5cm = 175cm³

Q5b. 134 ➔ No. of cubes ➔ 25 + 7 + 5 + 2 + 2 = 41, difference ➔ 175 – 41 = 134

Q6a. 8
Total ➔ 38 x 3 = 114
6A ➔ 9+21+8=38
6C ➔ 24 + 13 = 37
38 + 37 =75
6B ➔ 114 – 75 =39
L ➔ 39 – (12+19) = 8

Q6b. 7 9 + 12 = 21, 21÷3=7

Q7. 1 litre 80ml
⅖ x 30cm x 12cm x 15cm = 3240cm³
3 minutes ➔ 3240cm³
1 minute ➔ 3240cm³÷3=1080cm³
1080cm³ = 1 litre 80ml

Q8. 30
G:R:B
5:10:12
12u ➔ 72, 1u 72÷12=6, G10u ÷2u =5u, 5u 6 x 5 = 30

Q9a. $3.15
$\frac{7}{100}$ x 45 = 3.15

Q9b. $16.05
Total→ 45 + 3.15=48.15
48.15 ÷ 3 = 16.05

Q10. 138cm²
∠ of rect. →108 ÷ 9 = 12
Area of rect. →9 x 12 = 108
Area of Δ = ½ x 5 x 12 = 30
Total area 108 +30=138

Q11a. 30
$G → \frac{12}{12} - \frac{7}{12} = \frac{5}{12}$
$\frac{5}{12}$ x 72 = 30

Q11b. 12
G : B
1:2 (3u)
3u→ 756
1u →756 ÷3=252
B→ 2u
2u→ 252 x 2 = 504
No. B →$\frac{7}{12}$ x 72 = 42
504÷42=12

Q12. 8%
A →114+36 = 150
$\frac{12}{150}$ x 100% = 8%

Q13a. 94.5
90 x 3 = 270
270 – 260.5 = 9.5
85 + 9.5=94.5

Q13b. 98
92 x 4 = 368
368 – 270 = 98

Q14a. 48°→∠X 180-90-42=48

Q14b. 96° →∠Y 180 – 42 – 42 = 96

Q15a. 12→ 4+8=12

Q15b. 44
F5→ 12+2=14, F6 ⬆14+2=16, F7 →16+2=18, F8 →18+2=20, F9 20+2=22,
F10→22+2=24 F11→ 24+2=26, F12→ 26+2=28, F13→ 28+2=30, F14→
30+2=32, F15→ 32+2=34, 2 x 5=10, F20→34+10=44

3

Q16a. $780
21u-6u=15u
15u ➔702+468=1170
1u➔ 1170÷15=78
W➔ 78x 7 = 546
B➔ 78 x 3 = 234
546 +234=780

Q16b. $156
B W:B,
A W:B
2:3, 4:6(10u)
7-4=3
234÷3=78
6-4=2
78 x 2 = 156

Q17a. 7 ➔C➔ 7+5=12 , 7x3=21, 154-21=133, 12+7=19, 133÷19=7

Q17b. $70 ➔7+3=10, 10 x 7 = 70

Q18a. 160cm²
3+1+1+3=8
8u➔ 64
1u➔ 64÷8=8
Total 24 x 8 = 192
8÷2=4
½ x 4 x 8 = 16
16 x 2 = 32
192 – 32=160

Q18b. 128cm²
4 x 4 = 16
8 x 2 = 16
½ x 16 x 16 = 128

THE END

4

NAN HUA PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2 – 2015
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. The use of calculator is not allowed.
5. Shade your answers in the Optical Answer Sheet (OAS) provided for Questions 1 – 15.

Marks Obtained

Paper 1		/ 40
Paper 2		/ 60
Total		/ 100

Name : _____ ( )

Class : _____

Date : 2 Nov 2015   Parent's Signature :_____

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

(20 marks)

1. What is the value of the digit '7' in 674 300?

    (1) 70

    (2) 7 00

    (3) 70 000

    (4) 700 000

2. Find the value of $20 + (15 - 5) \times 4$.

    (1) 15

    (2) 60

    (3) 120

    (4) 140

3. What is the missing number in the blank below?
    $904 \ 573 = 900 \ 000 + 4000 + \underline{\hspace{1cm}} + 3$

    (1) 570

    (2) 500

    (3) 57

    (4) 50

4. Which one of the following is equivalent to $\frac{13}{7}$?

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

    (2) $1\frac{6}{7}$

    (3) $6\frac{1}{7}$

    (4) $13\frac{1}{7}$

5. What is the value of $\frac{1}{5} + \frac{3}{4}$?

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

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

    (3) $\frac{15}{20}$

    (4) $\frac{19}{20}$

6. How many thousandths are there in 8.23?

    (1)   823

    (2)   23

    (3)   3

    (4)   8 230

7. What is the value of 1.87 × 300?

    (1)   5.61

    (2)   56.1

    (3)   561

    (4)   5 610

8. What is the missing number in the box below?

$2 : 6 = 5 : \boxed{?}$

    (1)   9

    (2)   12

    (3)   15

    (4)   30

9. The perimeter of a square is $\dfrac{2}{9}$ m. What is the length of each side of the square?

    (1) $\dfrac{4}{9}$ m

    (2) $\dfrac{8}{9}$ m

    (3) $\dfrac{1}{18}$ m

    (4) $\dfrac{4}{81}$ m

10. The line graph below shows Peter's mass over the last 5 years.
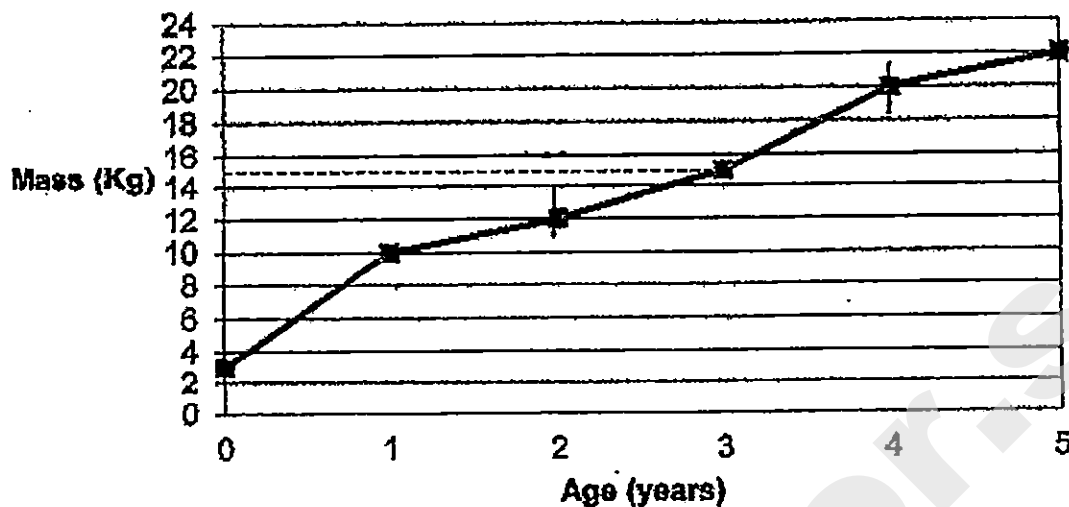
What was the increase in Peter's mass from 2 to 4 years old?

(1) 8 kg

(2) 12 kg

(3) 20 kg

(4) 47 kg

11. The table below shows the marks scored by David during his year-end examination.

Subject	English	Chinese	Mathematics	Science
Marks	70	65	?	75

He scored an average of 75 marks for the 4 subjects above.
How many marks did he score for Mathematics?

(1) 70

(2) 90

(3) 95

(4) 100

4

12. Andy, Bee Ling and Cyrus shared some money in the ratio 1 : 2 : 6. After Cyrus spent $36 and Andy received some money, each of them had the same amount of money left. How much money did Andy have at first?

    (1) $81

    (2) $18

    (3) $9

    (4) $4

13. In the diagram below, not drawn to scale, Thomas is facing south-east. In which direction must he turn to face the school?
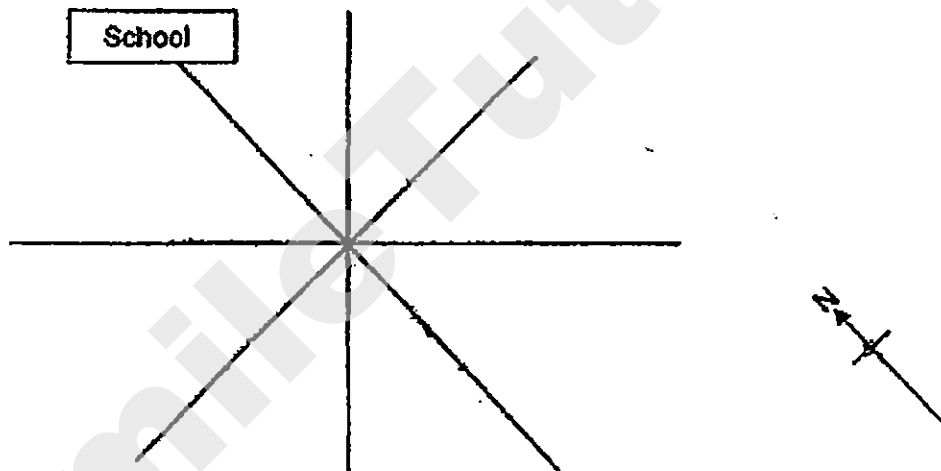
    (1)   90° clockwise

    (2)   135° anti-clockwise

    (3)   135° clockwise

    (4)   180° clockwise

14. Look at the pattern below.

1st ... 8th
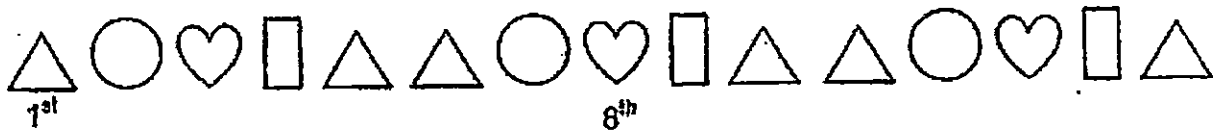
In which position will the heart shape appear in?

(1) 43rd

(2) 42nd

(3) 41st

(4) 40th

15. In the figure below, not drawn to scale, ABCD is a rectangle measuring 8 cm by 6 cm. The area of triangle DZC is 16 cm². Find the area of triangle XDZ.

6 cm

16 cm²

D ← 8 cm → C
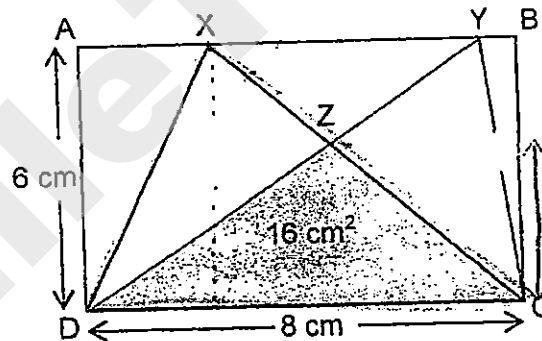
(1) 6 cm²

(2) 8 cm²

(3) 16 cm²

(4) 24 cm²

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. What is the value of 300 thousands and 59 ones?

Ans: _____

17. Express 5 kg 26 g in grams.

Ans: _____ g

18. Express 37% as a decimal.

Ans: _____

19. Express $\dfrac{13}{25}$ as a percentage.

Ans: _____ %

20. The figure below is not drawn to scale. Find $\angle y$.
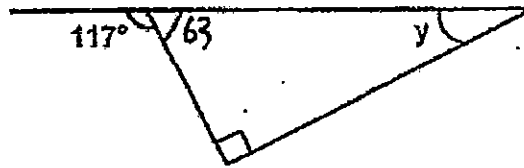
Ans: _____ °

21. What is the area of triangle ABC?
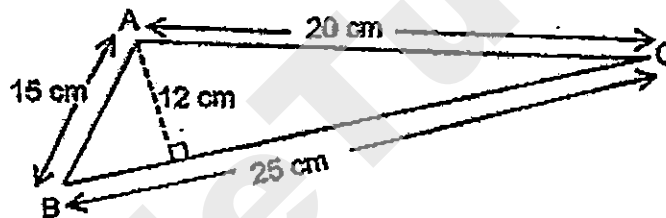
Ans: _____ cm²

22. A whole number X becomes 500 when it is rounded off to the nearest hundreds. What could be the largest possible value for X?

Ans: _____

23. John counted the pens in a container and recorded the number of colour pens in the table below.

Colour of pens	Number of pens
Blue	8
Green	3
Red	5

What is the ratio of all the blue pens to the total number of pens? Express your answer in its simplest form.

Ans: _____

24. A box measures 22 cm by 15 cm by 10 cm. How many 1-cm cubes can be placed in the box completely?

Ans: _____

25. There were twice as many girls as boys at a carnival. 412 boys were at the carnival. How many children were there at the carnival altogether? Round off your answer to the nearest tens.

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 requires units, give your answers in the units stated. (10 marks)

Do not write in this spac

26. The table below shows the postage charges for sending a parcel.

Mass	Postage Charges
First 5 kg	$ 12
Additional 1 kg or part thereof	$ 3

How much would Mr Bala have to pay for sending a parcel weighing 14 kg?

Ans: $ _____

27. The figure below is not drawn to scale. Line FD = Line FC and $\angle CDE = 52°$. Find $\angle m$.

Ans: _____ °

11
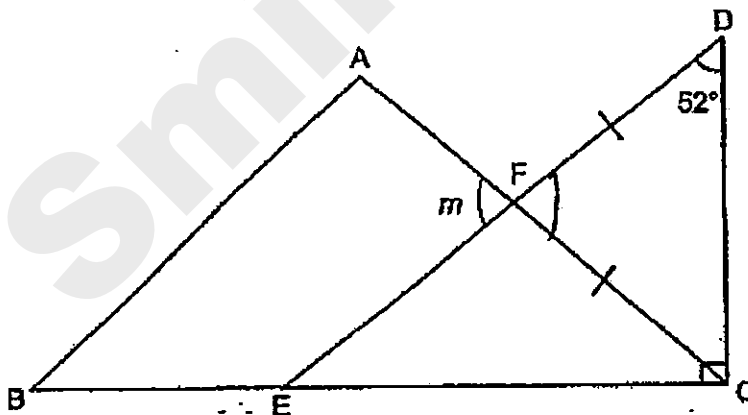
28. In a game, a player will get 4 points if he wins. The player will get 5 extra points for winning every 5 games. How many games does a player win altogether if he has a total of 100 points?

Ans: _____

29. The ratio of the perimeter of square A to the perimeter of square B is 3 : 5. Square A has a side of 6 cm. What is the perimeter of square B?

6 cm

Square A

Square B
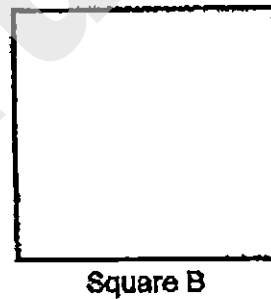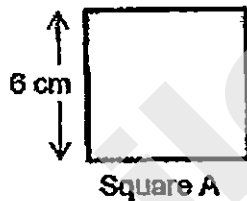
Ans: _____ cm

30. The diagram below shows a field. Each tree was planted at 3 m apart along every side of the field. How many trees were planted altogether?
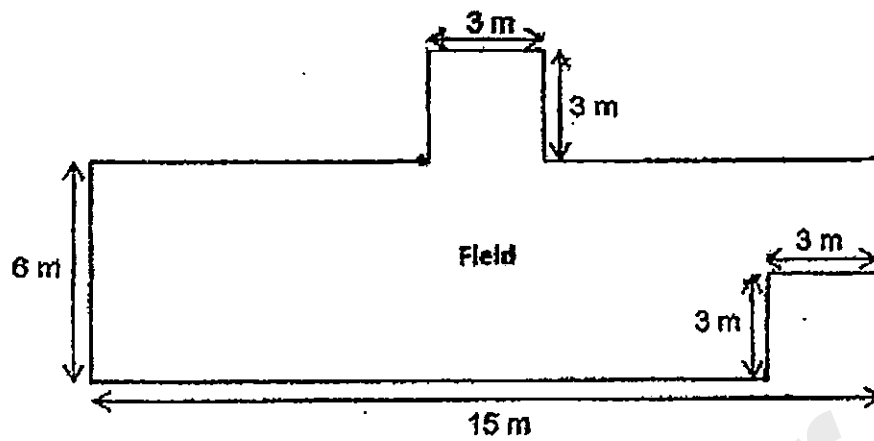
3 m

3 m

6 m

Field

3 m

3 m

15 m

Ans: _____

END OF PAPER 1

13

NAN HUA PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2 – 2015
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. The use of calculator is allowed.

Marks Obtained

Total		/ 80

Name : _____(   )

Class : _____

Date : <u>2 Nov 2015</u>   Parent's Signature :_____

Paper 2

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

1. A box has a length of 20 cm and a width of 14 cm. The height of the box is twice its width. Find the volume of the box.

14 cm

20 cm
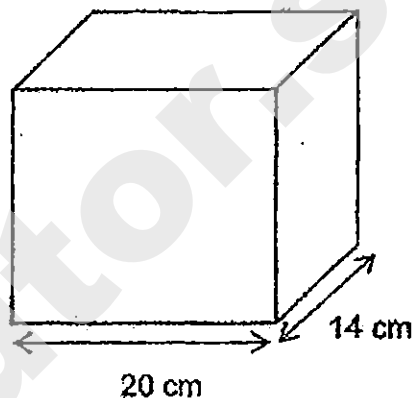
Ans: _____ cm³

2. The figure below shows an isosceles triangle PSQ which is not drawn to scale. Line PS = Line PQ. Given that ∠PSR = 36° and ∠QPR = 30°, find ∠SPR.

P

30°

36°

S   R   Q

Ans:_____ °

1
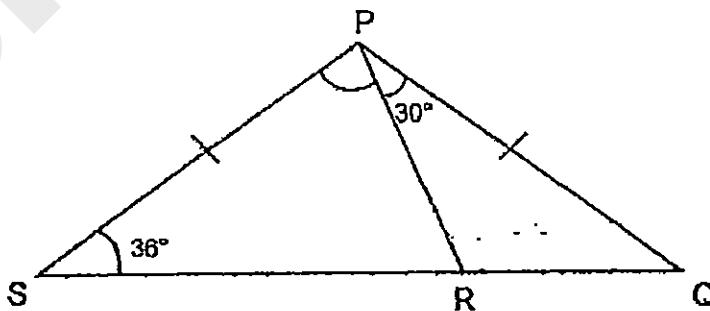
3. The original price of a T-shirt is $28. At a sale, it is sold at a discount of 30%. How much does Diana have to pay if she buys 5 such T-shirts at the discounted price?

Ans: $_____

4. Wei Ming and Shawn scored an average of 87 marks for their tests. If Shawn scored 6 marks more than Wei Ming, how many marks did Wei Ming score?

Ans:_____

2

5. The figure below is made up of 2 identical rectangles, ABEF and BCDE. Given that line BG = line GE, line BC = 15 cm and line CD = 36 cm, find the total shaded area.
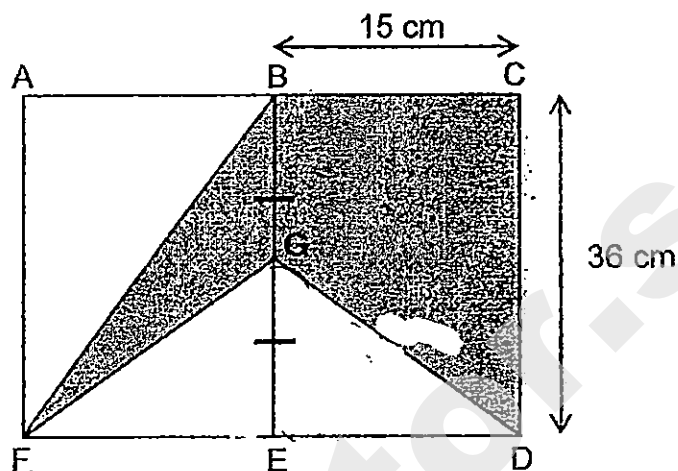
15 cm

36 cm

Ans: _____ cm²

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

(50 marks)

6. Ribbon A is 94 cm shorter than Ribbon B. Ribbon C is 107 cm longer than Ribbon A. The total length of the 3 ribbons is 426 cm. What is the length of Ribbon C?

Ans: _____[3]

7. In the figure below, not drawn to scale, line PU, line PS, line UR and line SV are straight lines. $\angle PQR = 110°$, $\angle PSV = 27°$ and $\angle RUP = 29°$. Find $\angle a$.

Ans: _____[3]

4
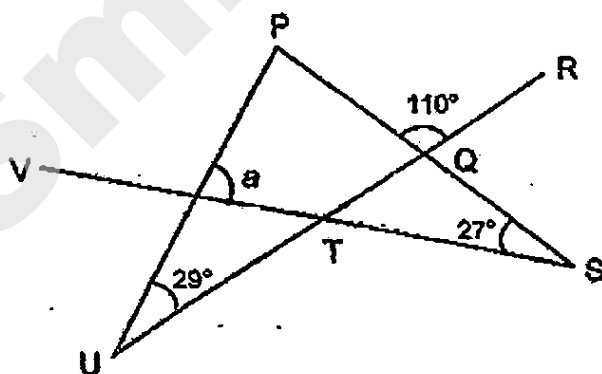
8. There were some children at a carnival. $\frac{3}{11}$ of the children are girls and the rest are boys. After 48 boys left the carnival, the number of girls was half the number of remaining boys. How many children were at the carnival at first?

Ans: _____[3]

9. The usual price of a laptop is $1600. Mr Chan was given a discount of 15%. How much did Mr Chan pay for the laptop if he had to pay an additional 7% GST after the discounted price?

Ans: _____[3]

10. 5 boys sold an average of 26 bookmarks for charity. After 3 more girls joined them, the average number of bookmarks sold by the 8 children became 35. What was the total number of bookmarks sold by the 3 girls?

Ans: _____ [3]

11. George is 7 years old now and his mother is 43 years old. In how many years' time, will George be $\frac{1}{4}$ as old as his mother?

Ans: _____ [4]

12. Mrs Sivia and Mrs Tan went to the same grocery store to buy some flour and sugar. Mrs Sivia bought 3 kg of flour and 2 kg of sugar for $10.90. Mrs Tan bought 6 kg of flour and 5 kg of sugar for $23.20. Find the total cost of 1 kg of flour and 1 kg of sugar.

Ans: _____ [4]

13. At a food centre, a plate of duck rice costs $3.50 and a plate of chicken rice costs $2.50. Mr Soh sold 15 more plates of duck rice than chicken rice on Sunday. He collected $412.50 in total on that day. How many plates of chicken rice did he sell on that Sunday?

Ans: _____ [4]

14. Tom filled Container X completely with water and Container Y with some water. After Tom transferred some water from Container X to Container Y, Container Y was filled to the brim while the height of water in Container X dropped to 12 cm.

(a) How much water was transferred from Container X to Container Y?

(b) What was the amount of water in Container Y in the beginning? Give your answer in litres.

**After the transfer of water:**

18 cm

2 cm

8 cm

20 cm

Container X

25 cm

8 cm

16 cm

Container Y
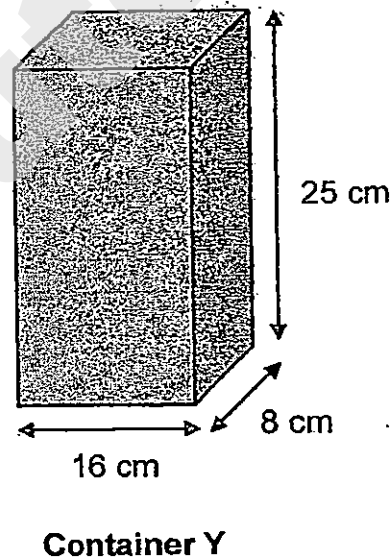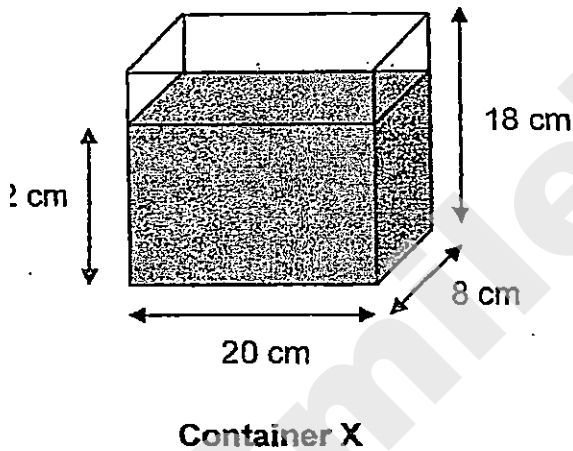
Ans: (a) _____ [2]

(b) _____ [2]
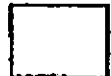
15. A bus left the interchange with some passengers on board. At the first stop, 4 passengers boarded the bus. When it reached the second stop, $\frac{2}{5}$ of the passengers got off the bus. At the third stop, $\frac{3}{4}$ of the passengers got off the bus and 5 passengers boarded the bus. When the bus left the third stop, there were 8 passengers on the bus.

How many passengers were on the bus when it left the interchange?

Ans: _____ 4]

16. Mrs Lee sold 320 cookies on Saturday. 40% of them were chocolate cookies, 75% of the remainder were durian cookies and the rest were strawberry cookies.

a) How many durian cookies were sold on Saturday?

b) What percentage of all the cookies sold were Strawberry cookies?

Ans: (a) _____[3]

(b) _____[2]

17. Amy, Beatrice and Calin had some stickers. Calin had 18 more stickers than Amy. Calin had $\frac{3}{4}$ as many stickers as Beatrice. After Amy and Calin received a total of 36 stickers from Beatrice in the ratio of 3 : 1 respectively, all three girls had the same number of stickers.

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

(b) What is the ratio of Amy's stickers to Beatrice stickers to Calin's stickers at first? Give your answer in the simplest form.

Ans: (a) _____ [3]

(b) _____

18. There were 30 more 20-cent coins than $1 coins in a box. The difference in value between all the $1 coins and all the 20-cent coins is $90. Express the number of $1 coins as a fraction of the number of 20-cent coins. Give your answer in the simplest form.

Ans: _____ [5]

END OF PAPER 2

NAN HUA PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2 2015
PRIMARY 5 MATHEMATICS
PAPER 1

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

16) 300 059

17) 5026 g

18) 0.37

19) 52%

20) 117°-90° = 27°

21) 1/2x25x12 = 150 sq cm

22) 549

23) 8:16 = 1:2

24) 22x15x10 = 3300 cubes

25) 1u — 412
    3u — 3x412 = 1236 ≈ 1240

26) 12+9x3 = $39

27) 180°-52°-52 = 76°

28) 4x5 = 20
    20+5 = 25
    100÷25 = 4
    4x5 = 20 games

29) 6x4 = 24
    3u — 24 cm
    5u — 5/3x24 = 40 cm

30) 16 trees were planted altogether

PAPER 2

1) 20X14X28 = 7840 cubic cm

2) 180°-36°-36°-30° = 78°

3) 70/100x28x5 = $98

4) 87x2 = 174
174-6 = 168
168÷2 = 84 marks

5) 36x15 = 540 sq cm
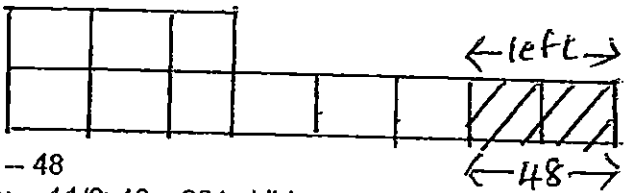
6) 426-107-94 = 225 cm
225÷3 - 75 cm
75+107 = 182 cm

7) Angle QTS = 180°-27°-110° = 43°
Angle a = 43°+29° = 72°

8)

2u -- 48
11u -- 11/2x48 = 264 children were at the carnival at first

9) 85/100x$1600 = $1360
107/100x$1360 = $1455.20

10) 26x5 = 130
8x35 = 280
280-130 = 150 bookmarks were sold by the 3 girls

11) 43-7 = 36
3u -- 36
1u -- 1/3x36 = 12
12-7 = 5 years' time

12) 3F + 2S = $10.90
6F + 5S = $23.20
Difference, 3F + 3S = $(23.20-10.90) = $ 12.30
Hence,   1F + 1S = $12.30÷3 = $4.10

13) 15X$3.50 = $52.50
$412.50-$52.50 = $360
$3.50+$2.50 = $6
$360÷$6 = 60 plates of chicken rice sold on Sunday

14) 18-12 = 6 cm
a) 20x8x6 = 960 cubic cm
16x8x25 = 3200 cubic cm
b) 3200-960 = 2240 cubic cm = 2.24*l*

15) 8-5 = 3
3x4 = 12
12÷3 = 4
4x2 = 8
8+12 = 20
20-4 =16 passengers were on the bus when it left the interchange

16a) 75/100x60/100x320 = 144 durian cookies were sold on Saturday
b) 25/100x60/100x100% = 15%

17a) 18÷2 = 9
36+9 = 45
45x3 = 135 stickers at first
b) 45x4 = 180 (Beatrice)
136-18 = 117 (Amy)
A:B:C = 117:180:135 = 13:20:15

18) 30x$0.20 = $6
$(90+6) = $96
$(1-0.20) = $0.80
$(96÷0.80) = 120
120+30 = 150
120/150 = 4/5

NANYANG PRIMARY SCHOOL

SECOND SEMESTRAL EXAMINATION 2015

PRIMARY 5

MATHEMATICS

PAPER 1

DURATION: 50 MINUTES

Booklet A	/ 20	Paper 1 Total:
Booklet B	/ 20	/ 40

Name: _____ (   )

Class: Primary 5 (   )

Date: <u>26 October 2015</u>

Parent's Signature: _____

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.

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

(20 marks)

---

1   Round off 621 534 to the nearest thousand.

   (1)   621 000

   (2)   621 500

   (3)   621 600

   (4)   622 000

2   Find the value of $\frac{3}{7} + \frac{1}{3}$.

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

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

   (3) $\frac{2}{21}$

   (4) $\frac{16}{21}$

3   What is the value of $\dfrac{4}{5} \div 8$?

    (1) $\dfrac{1}{7}$

    (2) $\dfrac{1}{10}$

    (3) $\dfrac{2}{5}$

    (4) $\dfrac{32}{5}$

4   Observe the pattern below.

$$29.4 \div 2 = 14.7$$

$$29.4 \div \boxed{} = 0.147$$

What is the missing number in the box?

    (1)   20

    (2)   200

    (3)   2000

    (4)   20 000

5   Given that the height of triangle ABC is AD, find its corresponding base.
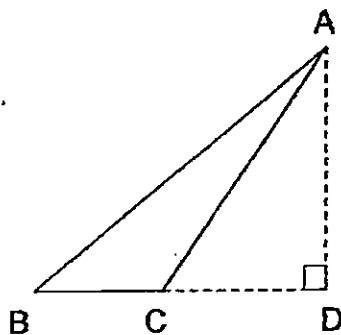
(1)   AB

(2)   AC

(3)   BC

(4)   BD

6   Which one of the following is the equivalent ratio of 8 : 3?

(1)   16 : 12

(2)   24 : 24

(3)   40 : 15

(4)   64 : 9

7   The solid below is made up of 2-cm cubes.
Find the volume of the solid.
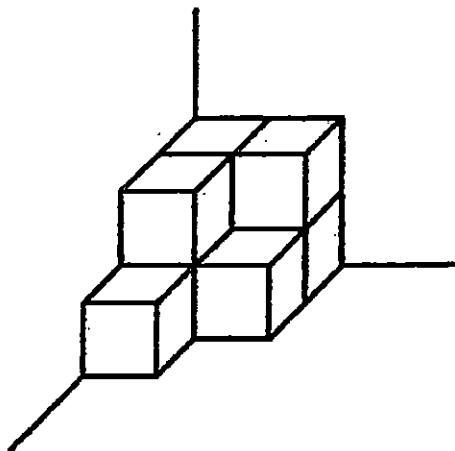
    (1)   8 cm^3

    (2)   16 cm^3

    (3)   32 cm^3

    (4)   64 cm^3

8   Which one of the following is the same as 6070 *ml*?

    (1)   6 *l*   7 *ml*

    (2)   6 *l* 70 *ml*

    (3)   60 *l* 7 *ml*

    (4)   60 *l* 70 *ml*

9   Mrs Goh gave $20 000 to the elderly folks in the old folks centre.   Each
     elderly folk received $500.   How many elderly folks were there?

     (1)   4

     (2)   40

     (3)   400

     (4)   4000

10   Sharifah had $4000 in her bank account.   The bank paid her an annual
     interest of 2%.   She did not withdraw any of her savings.   Find the
     amount of interest Sharifah got in a year.

     (1) $80

     (2) $800

     (3) $3920

     (4) $4080

11   Arrange the following fractions from the largest to the smallest.

$$\frac{5}{4}, \quad 1\frac{1}{3}, \quad \frac{9}{8}$$

(1) $\frac{9}{8}, \quad 1\frac{1}{3}, \quad \frac{5}{4}$

(2) $\frac{9}{8}, \quad \frac{5}{4}, \quad 1\frac{1}{3}$

(3) $1\frac{1}{3}, \quad \frac{5}{4}, \quad \frac{9}{8}$

(4) $1\frac{1}{3}, \quad \frac{9}{8}, \quad \frac{5}{4}$

2   The table below shows the number of picture cards 6 children had.

Child	Number of picture cards
Ai Mei	3
Bala	3
Chris	2
Deming	0
Emily	4
Fatimah	0

What was the average number of picture cards the children had?

(1)   72

(2)   2

(3)   3

(4)   12

6

13 In the square grid below, which shape is a right-angled isosceles triangle?

(1)   (2)   (3)   (4)
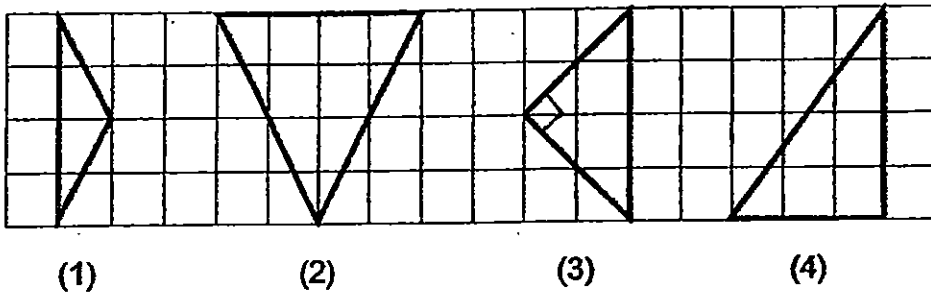
14 Gopal wants to fill a rectangular container 6 m long, 4 m wide and 2 m high completely with water. Water costs $2 per cubic metre. How much money will he need to pay for the water?

    (1) $12

    (2) $24

    (3) $48

    (4) $96

15 A table with 4 columns is filled with numbers in a certain pattern. The first 6 rows of the table are shown below.

	Column A	Column B	Column C	Column D
Row 1	1	2	3	4
Row 2	7	6	5	5
Row 3	8	9	10	10
Row 4	14	13	12	11
Row 5	15	15	16	17
Row 6	20	20	19	18
⋮	⋮	⋮	⋮	⋮

In which column will the number 151 appear?

(1) Column A

(2) Column B

(3) Column C

(4) Column 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   Find the value of $180 \div (18 - 9) + 100$.

Ans: _____

---

17   Find the product of $\dfrac{2}{3}$ and $\dfrac{9}{10}$.   Express your answer as a fraction in its simplest form.

Ans: _____

---

18   There were some boys, girls and adults in the exhibition hall.   There were 6 boys for every 8 girls. There were 10 adults for every 6 boys. Find the ratio of the number of girls to the number of boys to the number of adults.   Give your answer in the simplest form.

Ans: _____

---

19 Find the missing number in the box.

$$9 : 5 = \boxed{} : 30$$

Ans: _____

---

20 Unit cubes are used to build the solid below. Find the total number of unit cubes used to build it.
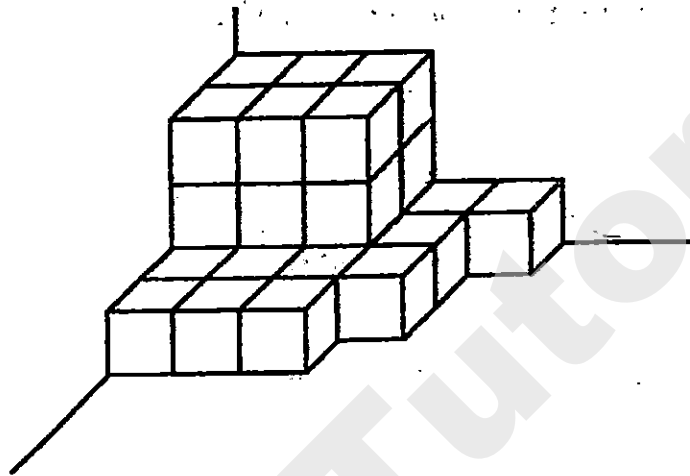
Ans: _____

---

21 Find the volume of a cube of edge 9 cm.

Ans: _____ cm^3

---

22 Express 3.58 kilometres in metres.

Ans: _____ m

10

23 Express 4.3 as a percentage.

Ans: _____ %

---

24 Benny has 800 stamps in his collection. 70% of the stamps are foreign stamps. How many foreign stamps does he have?

Ans: _____

---

25 In the figure below, ABC, DBE and FBG are straight lines. Find ∠GBE.
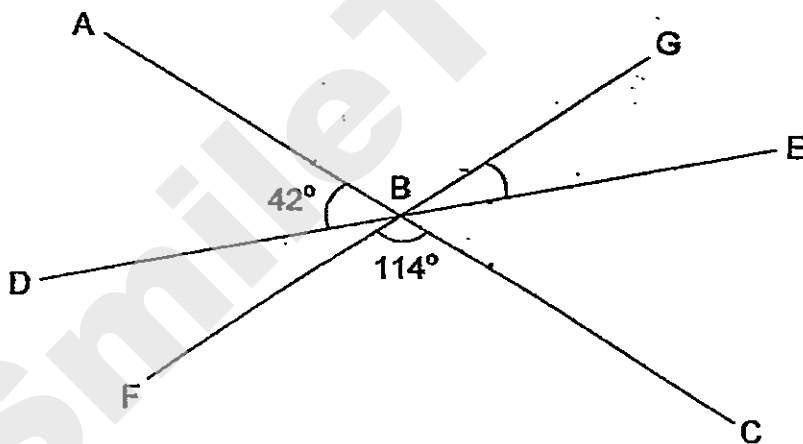
Ans: _____ °

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 There are 20 apples in a basket. 9 of them are green while the rest are red. What percentage of the apples are red?

Ans: _____ %

---

27 In the figure below, ABCD is a rectangle. Find the area of triangle EBF.
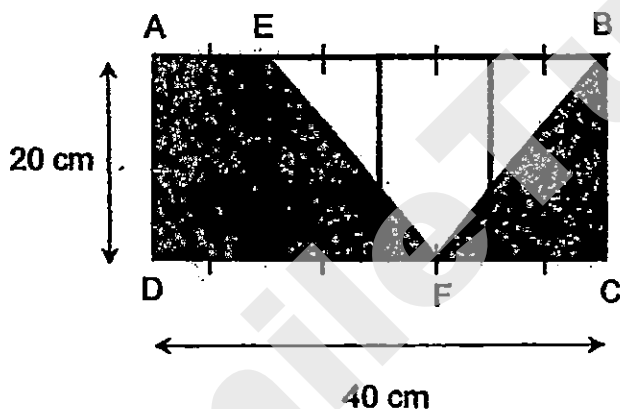
Ans: _____ cm²

---

28 In the figure below, PQR is a straight line. Find ∠QSR.

Ans: _____ °
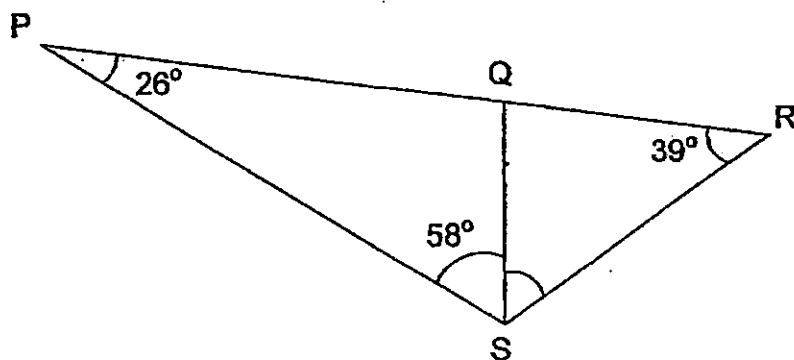
29 The mass of a box with 200 identical notebooks is 51.2 kg.   When $\dfrac{1}{2}$

of the number of notebooks is removed, the mass of the box with the

remaining notebooks is 26.2 kg.   Find the mass of each notebook.

Give your answer in kg, correct to 1 decimal place.

Ans: _____ kg

30 In a café, a set meal is made up of one snack, one main dish and one drink. In a set meal, the snack will be served first, followed by the main dish and the drink. How many different set meals can be formed using the menu shown below?

Snack	Main dish	Drink
Fries	Fried Noodles	Coffee
Corn	Fried Rice	Tea
	Grilled Chicken	Orange Juice
	Grilled Fish	
	Hamburger	
	Sushi	

Ans: _____

NANYANG PRIMARY SCHOOL

SECOND SEMESTRAL EXAMINATION 2015

PRIMARY 5

MATHEMATICS

PAPER 2

DURATION: 1 HOUR 40 MINUTES

Paper 2 Total	/ 60
GRAND TOTAL	/ 100

Name: _____ ( )

Class: Primary 5 ( )

Date: <u>26 October 2015</u>

Any query on marks awarded should be raised by 6 November 2015. We seek your understanding in this matter as any delay in the confirmation of marks will lead to delays in the generation of results.

Parent's Signature: _____

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.

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   Mrs Deva needed $4\dfrac{2}{3}$ m of cloth to make a curtain.   How much cloth would she need to make 8 such curtains?   Give your answer as a mixed number in its simplest form.

Ans: _____ m

---

2   Mr Poon cut a piece of string into two pieces in the ratio of 12 : 19.   The length of the longer piece was 95 cm.   Find the length of the original piece of string.

Ans: _____ cm

---

3 The price of a laptop is $2280 before GST (Goods and Services Tax). Steve has to pay 7% GST for the laptop. How much GST does Steve have to pay for buying the laptop?

Ans: $ _____

4 In the figure below, KLM is a straight line.
$\angle KLN = 122°$ and $\angle JLM = 105°$. Find $\angle JLN$.
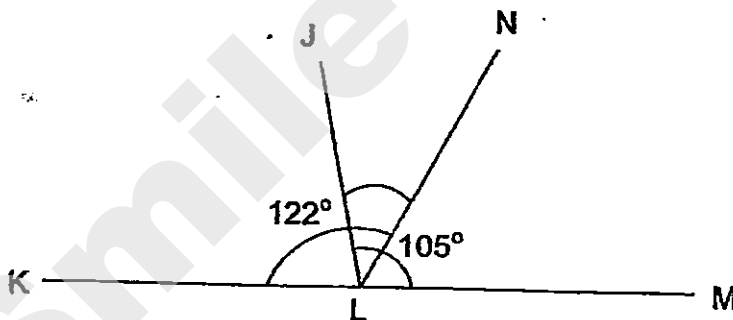
Ans: _____ °

5 In the figure below, DEF is an isosceles triangle such that DE = DF. FGH is an equilateral triangle. EFG is a straight line and ∠EDF = 32°. Find ∠DFH.
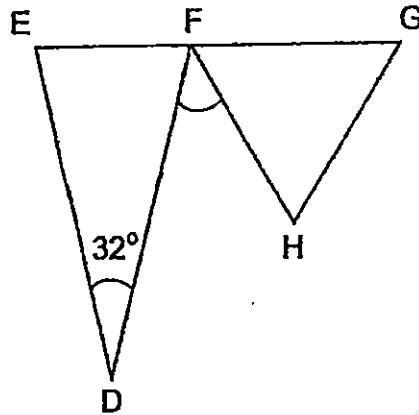
Ans: _____ °

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   At a fruit stall, the ratio of the number of oranges to the number of apples was 5 : 7. There were 640 more apples than oranges. The stall owner then sold 710 oranges. How many oranges were then left at the fruit stall?

Ans: _____ [3]

4

7   There was a total of $18\frac{3}{4}$ litres of water in Container A and Container B at first. There was a total of $16\frac{1}{5}$ litres of water in Container A and Container C at first. Peter then added $20\frac{1}{2}$ litres of water into Container B. How many more litres of water were there in Container B than Container C after Peter had added the water? Give your answer in litres.

Ans: _____ [3]

8   Mr Wong has 12 litres of water in a pail. He then pours some of the water from the pail into an empty rectangular tank measuring 30 cm long, 22 cm wide and 18 cm high. How much water is left in the pail after he has filled the tank with water to a depth of 14 cm? Give your answer in litres.

Ans: _____ [3]

9   In the square grid below, two sides of a parallelogram JKLM have been drawn.

(a)   Measure and write down the size of ∠JKL.

(b)   Complete the drawing of the parallelogram JKLM within the grid.
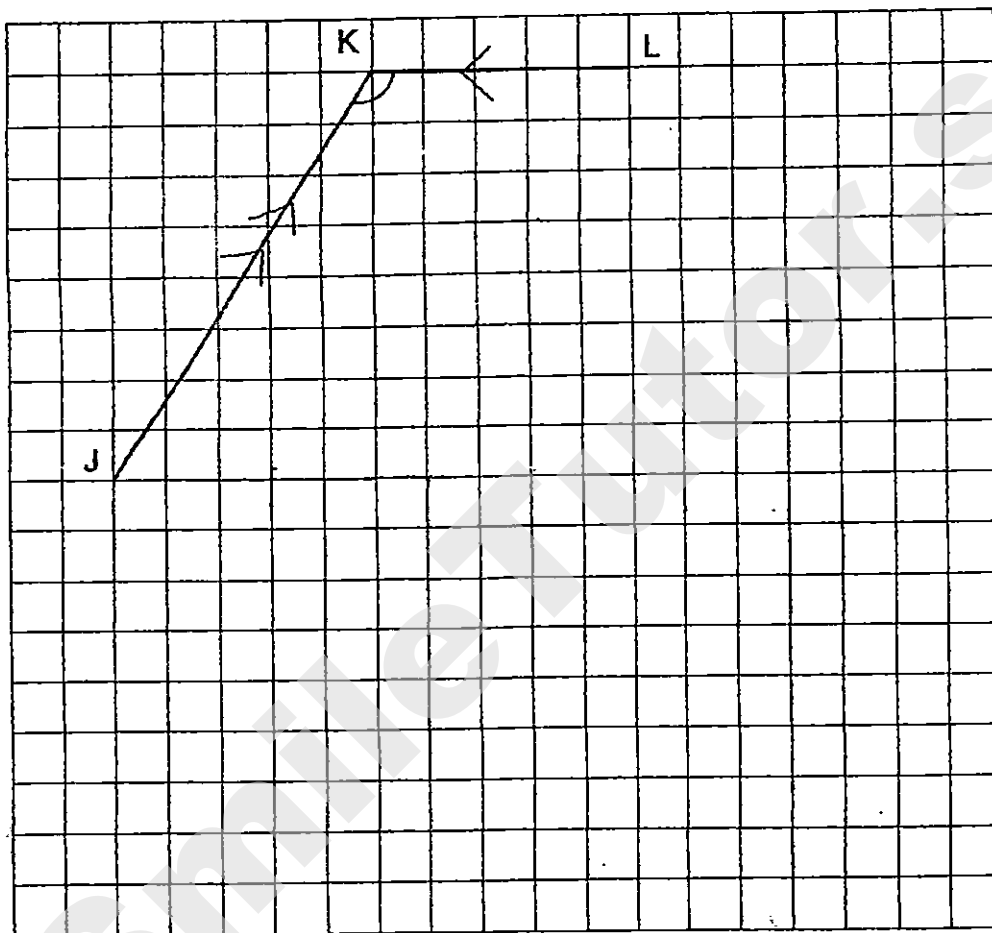
[2]

Ans: (a) _____ [1]

10   A group of children consists of 11 girls and 5 boys. The average height of the group of children is 122.5 cm. The average height of the girls is 3.2 cm more than the average height of the boys. Find the average height of the girls.

Ans: _____ [3]

11   The figure below is made up of a square and 2 identical right-angled triangles.   The area of the square is 144 cm². The perimeter of the figure is 72 cm.   Find the area of one of the triangles.
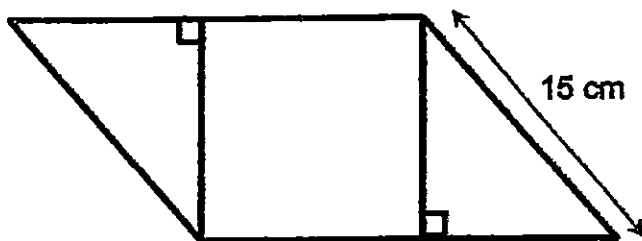
Ans: _____ [4]

12   Mrs Choo went shopping with $580. She bought a handbag and a bracelet at a discount. She spent 25% of her money on the bracelet. The total discount given for the two items was $138. The usual price of the handbag was $280 and she was given a 30% discount for the handbag. Find the usual price of the bracelet before the discount.

Ans: _____ [4]

13   Mr Lee bought a total of 82 tables and chairs altogether.   He was given a discount of $10 per table and a discount of $1.50 per chair.   He paid $310 less in all.   How many tables did he buy?

Ans: _____ [4]

14   This year, the ratio of Julie's age to Kelly's age is 1 : 5. Kelly is 60 years old this year. In how many years' time will Kelly be 3 times as old as Julie?

Ans: _____ [4]

15 In the figure below, QRST is a trapezium.   PQR and PUV are straight lines.   PQU is an isosceles triangle such that PQ = QU. $\angle$PRS = 126°.   The size of $\angle$UVT is $\dfrac{8}{9}$ the size of $\angle$UTV. Find $\angle$UVT.
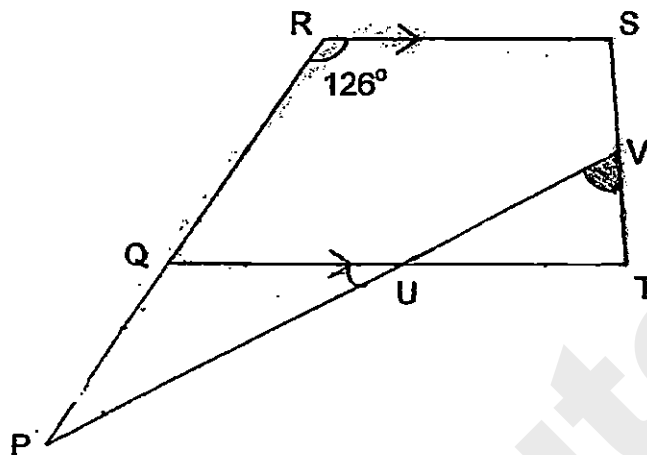
Ans: _____ [4]

16 At the start of the year, Jonathan and Sarah received daily allowance from their mother. Jonathan received a fixed amount of allowance each day. Sarah received 30 cents more than Jonathan for daily allowance each day. Jonathan saved 90 cents more than Sarah each day. A number of days later, Sarah spent $120 and Jonathan spent $48.

(a) How many days did Sarah take to spend $120?

(b) How much was Sarah spending each day, given that she spent the same amount of money each day?

Ans: (a) _____ [3]

(b) _____ [2]

17 A group of pupils from School A, School B and School C collected a total

of 5700 kg of old newspapers. Each pupil from School A collected

12 kg.   Each pupil from School B collected 15 kg.   Each pupil from

School C collected 16 kg. Given that $\frac{1}{5}$ of these pupils were from

School A, $\frac{1}{4}$ of the remaining pupils were from School B and the rest

were from School C, how many pupils were from School C?

Ans: _____ [5]

18   Mike glued a metal cube onto the base of an empty rectangular tank as shown below.   Mike then turned on a tap to fill the tank with water. Water from the tap flowed at a rate of 5.587 litres per minute.   It took 8 minutes to fill the tank with water to its brim, with the metal cube being completely submerged.   Find the length of one side of the metal cube.
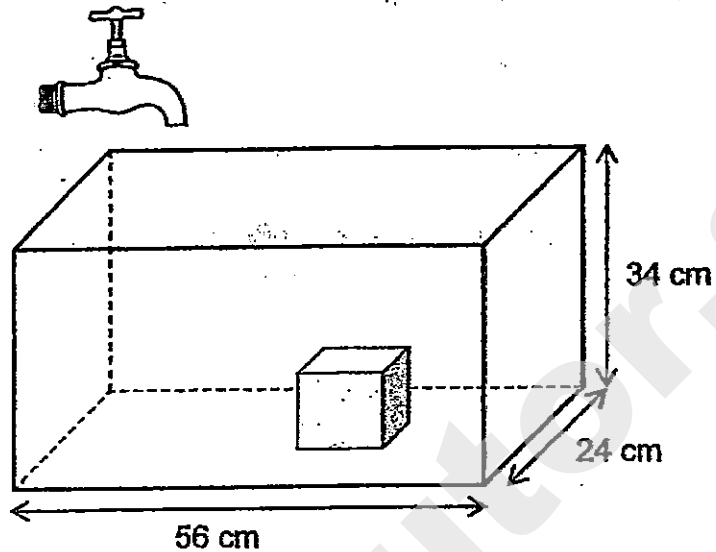
Ans: _____ [5]

END OF PAPER

15

LEVEL   : PRIMARY 5
SCHOOL   : NANYANG PRIMARY SCHOOL
SUBJECT   : MATHEMATICS
TERM   : SA2

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

Q16. 120   Q17. ⅗   Q18. 4:3:5   Q19. 54

Q20. 28   Q21. 729cm³   Q22. 3580m   Q23. 430%

Q24. 560   Q25. 24° 114 + 42 = 156, 180 − 156 = 24

Q26. 55% 20 − 9 = 11, $\frac{11}{20}$ x 100 = 55

Q27. 300cm² 40 ÷4 =10, 10 x 3 = 30, ½ x 20 x 30 = 300

Q28. 52°
58 + 26 = 84
180 − 84 = 96
180 − 96 = 84
84 + 39 = 123
180 − 123 = 57

Q29. 0.3kg
200 ÷ 2 = 100
51.2 − 26.2 = 25
25 ÷ 1 ÷ 0 = 0.25 ≈ 0.3

Q30. 36 ➔ 6 X 6 = 36

Q1. 37⅓m ➔ 4⅔ x 8 = 37⅓

Q2. 155cm
95 ÷ 19 = 5
12u + 19u = 31
31 x 5 = 155

Q3. $159.60 ➔ $\frac{7}{100}$ x $2280 = $159.60

Q4. 47° ➔ 122 + 105 = 227, 227 − 180 = 47

Q5. 46°
180 − 32 = 148
148 ÷ 2 = 74
74 + 60 = 134
180 − 134 = 46

Q6. 890
2u → 640
1u → 640 ÷ 2 = 320
320 x 5 = 1600
1600 − 710 = 890

Q7. 230.5 litre
18¾ − 16⅕ = $2\frac{11}{20}$
18¾ + 20½ = 39¼
39¼ − 16⅕ = $23\frac{1}{20}$
$23\frac{1}{20}$ = 23.05

Q8. 2.76 litre
30 x 22 x 18 = 11880
11880cm³ = 11.880 litre
30 x 22 x 14 = 9240
9240cm³ = 9.240 litre

Q9a. 123°   **Q9b. SEE PICTURE**
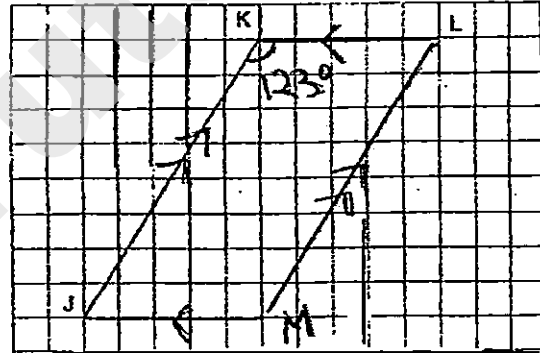
Q10 123.5CM
11 + 5 = 16
122.5 x 16 = 1960
3.2 x 5 = 16
1960 + 16 = 1976
1976 ÷ 16 = 123.5

Q11. 54cm²
12 x 12 = 144
12 + 12 + 15 + 15 = 54
72 − 54 = 18
18 ÷ 2 = 9
½ x 9 x 12 = 54

z

Q12. $199

$\frac{30}{100} \times \$2.80 = \$84$

$280 - \$84 = \$196$

$138 - \$84 = \$54$

$580 - \$196 = \$384$

$\frac{25}{100} \times \$580 = \$145$

$145 + \$54 = \$199$

Q13. 22

$2 \times \$1.50 = \$123$

$310 - \$123 = \$187$

$10 - \$1.50 = \$8.50$

$187 \div \$8.50 = 22$

Q14. 12

$60 \div 5 = 12$

$60 - 12 = 48$

$48 \div 2 = 24$

$24 - 12 = 12$

Q15. 72°

$180 - 126 = 54$

$180 - 54 = 126$

$180 - 126 = 54$

$54 \div 2 = 27$

$180 - 27 = 153$

$8u + 9u = 17u$

$153 \div 17 = 9$

$9 \times 8 = 72$

Q16a. 60

$0.90 + 30¢ = \$1.20$ (Sarah spent $1.20 more than J)

$120 - \$48 = \$72$

$72 \div \$1.20 = 60$

Q16b. $2

$120 \div 60 = \$2$

Q17. 228

$12 \times 1 = 12$

$15 \times 1 = 15$

$16 \times 3 = 48$

$48 + 15 + 12 = 75$

$5700 \div 75 = 76$

$76 \times 3 = 228$

Q18. 10cm
34 x 24 x 56 = 45696
5.58 x 8 = 44.696
45696cm³ = 45.696 litre
45.696 − 44.696 = 1
1 litre = 1000cm³
10 x 10 x 10 = 1000

RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2
MATHEMATICS (PAPER 1)
PRIMARY 5

Name: _____ ( )

Form Class: P5 _____   Math Teacher: _____

Date: 29 Oct 2015   Duration: 50 min

Your Paper 1 Score **(Out of 40 marks)**	
Your Paper 2 Score **(Out of 60 marks)**	
Your Total Score **(Out of 100 marks)**	
Parent's Signature	

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.

1. Round off 106.135 to the nearest hundredths.

   (1) 100

   (2) 110

   (3) 106.13

   (4) 106.14

2. Express $\dfrac{32}{5}$ as a mixed number.

   (1) $3\dfrac{2}{5}$

   (2) $6\dfrac{2}{5}$

   (3) $7\dfrac{2}{5}$

   (4) $30\dfrac{2}{5}$

3. Find the area of the triangle XYZ.
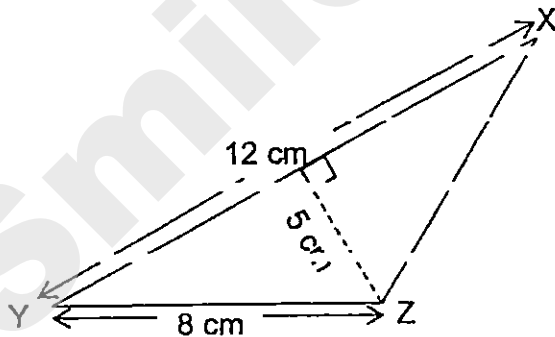
   (1) 20 cm^2

   (2) 24 cm^2

   (3) 30 cm^2

   (4) 48 cm^2

4. Ronnie was standing at the point marked X in the figure below. He was facing the school at first. He turned 135° anti-clockwise and then 270° clockwise.
Where would he be facing now?
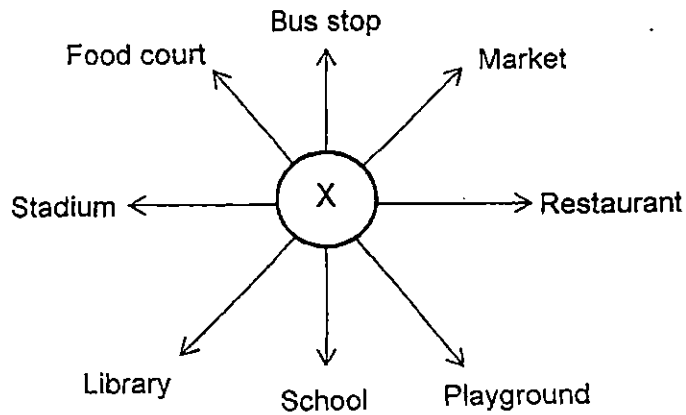
(1) Market

(2) Playground

(3) Food court

(4) Restaurant

5. Which one of the shapes below can be tessellated?

(1)

(2)

(3)

(4)

6. At a shopping centre, the number of toys sold on Sunday was 12 000 when rounded off to the nearest thousands.
Which one of the following could be the actual number of toys sold on that day?

   (1) 12 520

   (2) 12 969

   (3) 11 592

   (4) 11 478

7. The original price of a book was $20.
Chloe bought the book for $16 during a sale.
What was the percentage discount given to the book Chloe bought?

   (1) 20%

   (2) 25%

   (3) 80%

   (4) 125%

8. Express $2\frac{3}{4}$ as a decimal.

   (1) 2.25

   (2) 2.30

   (3) 2.34

   (4) 2.75

9. Denise had 8 green stickers, 20 yellow stickers and 12 red stickers.
Find the ratio of the number of red stickers to the total number of stickers.

   (1) 1 : 2

   (2) 1 : 5

   (3) 3 : 7

   (4) 3 : 10

10. Which one of the following figures does not have a line(s) of symmetry?

(1)

(2)

(3)

(4)
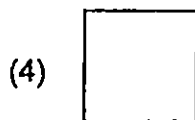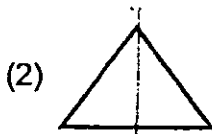
11. A class has 40 students. Each student eats an average of 4 fruits a week. If one of the students eats 3 more fruits that week, what is the total number of fruits eaten by the class?

(1) 120

(2) 123

(3) 160

(4) 163

12. Andy, Jenny and Cassie had some money in the ratio 1 : 4 : 6.

Cassie had $50 more than Andy.

What was the total amount of money Jenny and Cassie had?

(1) $10

(2) $25

(3) $100

(4) $250

13. Which of the following figures has the biggest shaded area?
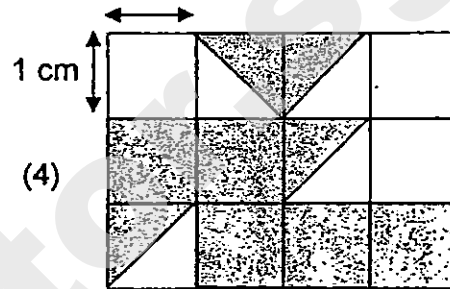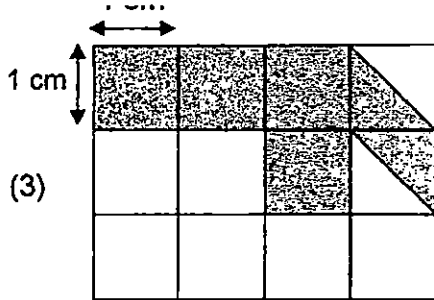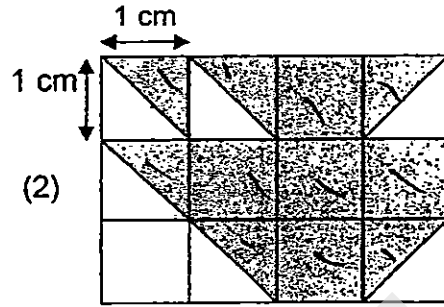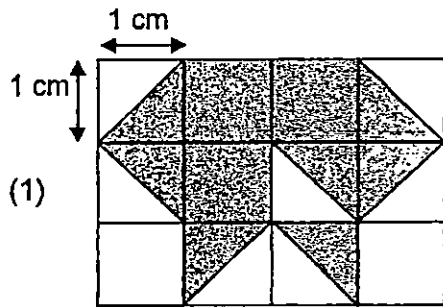
14. Jessica spent $\frac{1}{2}$ of her money on some books. She spent $\frac{1}{6}$ of the remainder

on an ice-cream and had $15 left. How much did she spend on the books?

    (1) $18.00

    (2) $22.50

    (3) $21.00

    (4) $36.00

15. Tom had 36 red beads and John had 28 green beads. Each of them packed their own beads equally into smaller bags. After packing, they had the same number of beads in each bag.
How many bags of beads did Tom have?

    (1)   16

    (2)   9

    (3)   7

    (4)   4

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

16. Arrange the following from the <u>smallest to the largest</u>.

1.2 , $1\frac{1}{8}$, 1.08 , $\frac{4}{3}$

Ans: _____ , _____ , _____ , _____

17. Find the value of 0.35×60.

Ans: _____

18. Jay is shorter than Lina.
Rex is taller than Jay.
Ali is shorter than Rex but taller than Lina.
Who is the tallest?

Ans: _____

19. A class of 20 pupils is given $\frac{2}{3}$ m of ribbon each. What is the total length of ribbon the class of pupils received? Express you answer as a mixed number in the simplest form.

Ans: _____ m

20. The bar graph below shows the amount of donations each class collected from a fundraising event.

Donations Collected from Fundraising
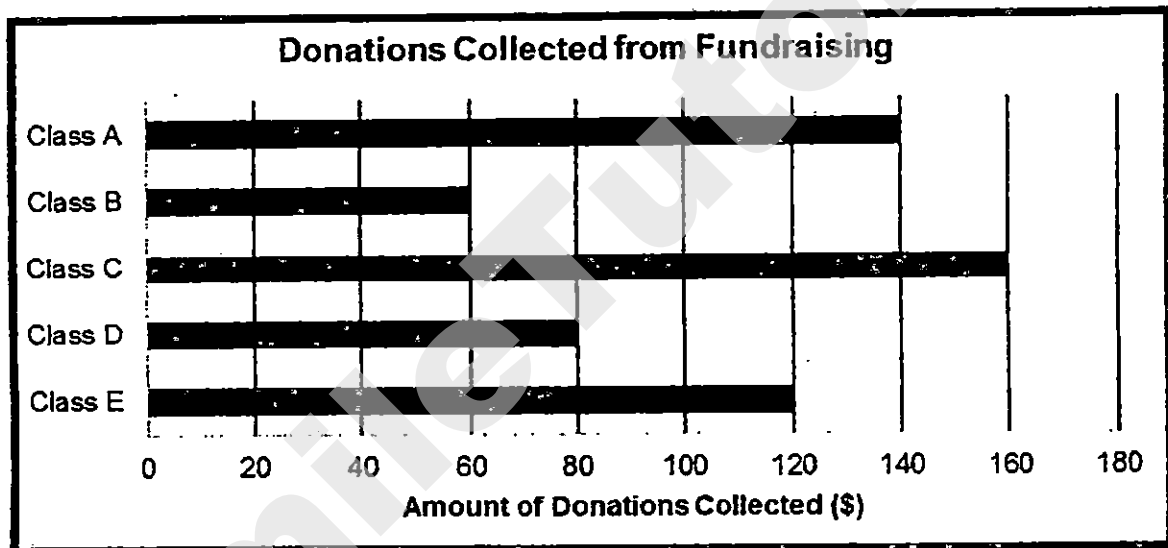
What was the total amount collected by classes A, C and D?

Ans: $ _____

21. The table below shows the number of rainy days in Singapore from January to May. Find the average number of rainy days from January to May.

Month	Rainy Days
January	19
February	13
March	17
April	21
May	20

Ans: _____

22. In the figure below, find the ∠ BCD.

Ans: _____ .°
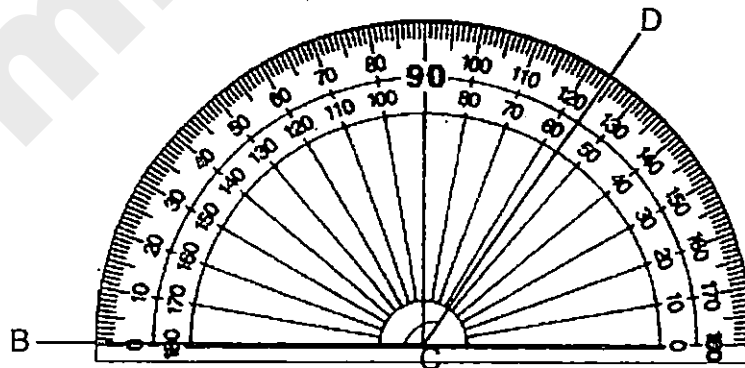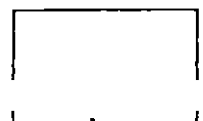
23.   The figure below is a rhombus.
      Find ∠b in the figure below.
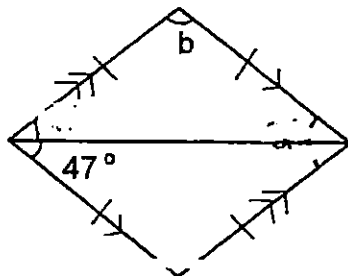
Ans: _____ °

24.   The pattern in the box below shows part of a tessellation.
      Extend the tessellation by drawing **two** more unit shapes in the space
      provided within the box.
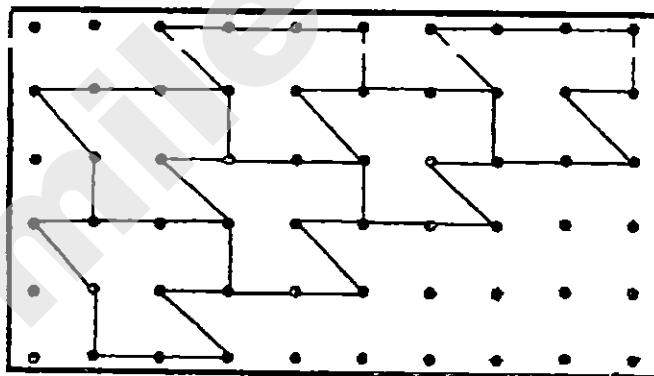
25. There are 200 animals in an animal shelter. There are 80 dogs, 90 cats and the rest are rabbits. What percentage of the animals are rabbits?

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. Mrs Lim uses $\frac{2}{5}$ kg of flour to bake a cake. What is the number of such cakes she can bake with 4 kg of flour?

Ans: _____

27. Jon made some lemonade by adding 2 ℓ of water and 600 m ℓ of lemon juice into a container. He then poured it equally into 8 cups.
How many litres of lemonade was there in each cup?

Ans: _____ ℓ

28. The figure below shows a cuboid made up of some identical 1-cm cubes. What is the volume of the cuboid after 6 cubes have been removed?
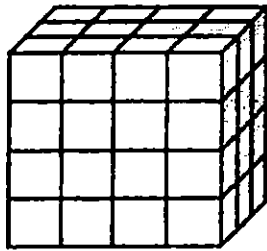
Ans: _____ cm³

29. In the space below, complete the drawing of triangle PQR, in which PQ = QR and ∠PQR= 90°.

The line PQ has been drawn for you.
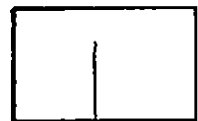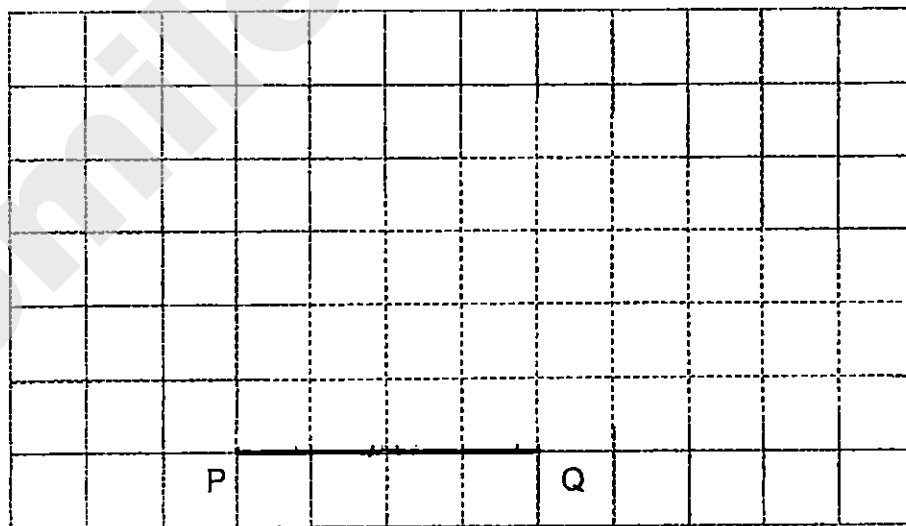
30. Class 5T did a survey on the number of pets each pupil had.
The results of the survey are shown in the bar graph below.
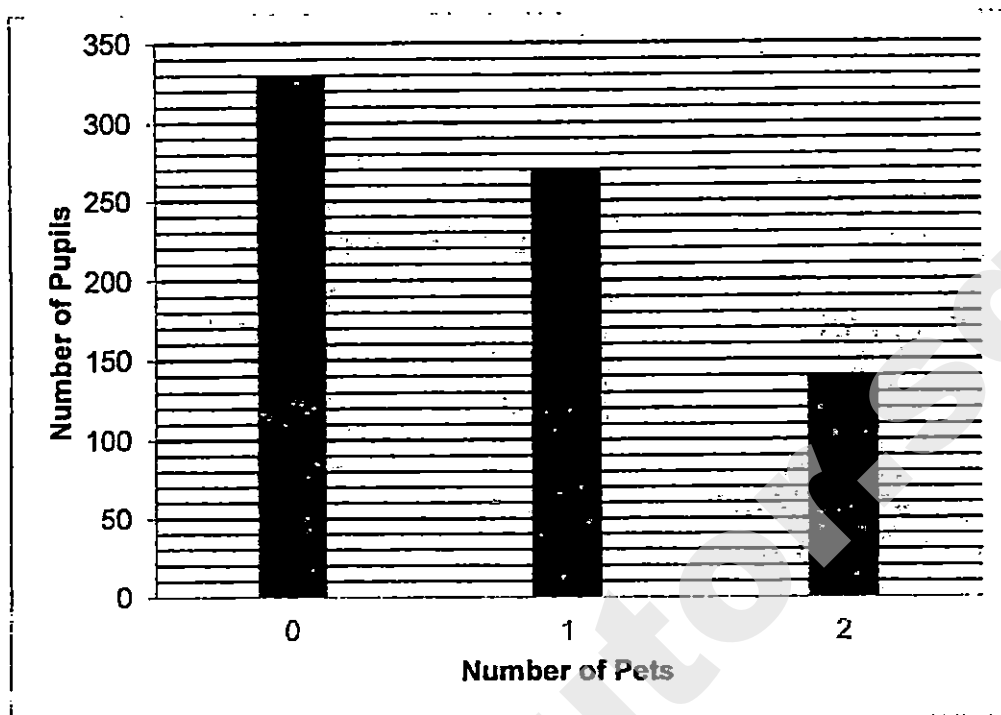
Find the total number of pets that are owned by pupils who have 2 or fewer pets.

Ans: _____

End of Paper
☺ Please check your work carefully ☺

Setters : Ms Kim Ang
Ms Tan Li Zhen
Mdm Wirda Sukor

RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2
MATHEMATICS (PAPER 2)
PRIMARY 5

Name: _____ (   )

Form class: P5 _____   Math Teacher: _____

Date: 29 Oct 2015   Duration: 1 h 40 min

Your Paper 2 Score **(Out of 60 marks)**	

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.

2. Follow all instructions carefully.

3. Answer **ALL** questions and show all working clearly.

4. The use of calculator is allowed for this paper.

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. In the figure below, EFG is an isosceles triangle and FGH and GI are straight lines. Find ∠ y.
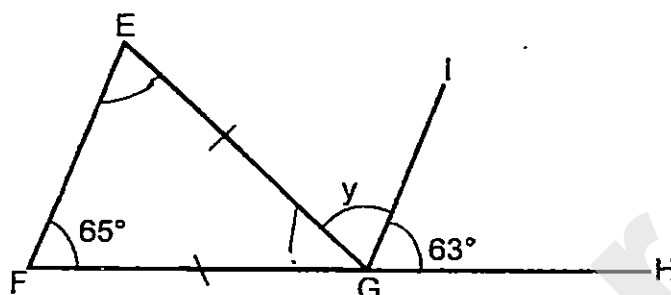
Ans: _____ ° [2]

2. In the figure below, ABC is a straight line. CBE is an isosceles triangle.

    CB and DE are parallel lines. Find ∠ a.
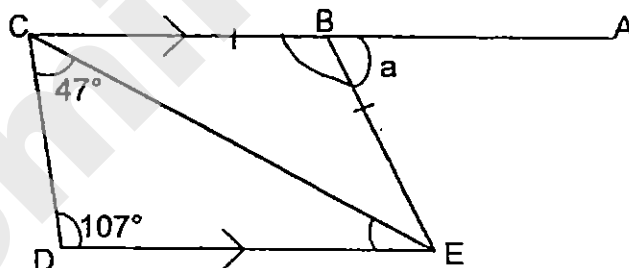
Ans: _____ ° [2]

3. Mrs Lee baked 2000 cookies. She gave her two children 350 cookies each and baked another 450 cookies. How many cookies did she have in the end?

Ans: _____ [2]

4. In the figure below, PQ and PS are two sides of a rhombus PQRS.

Complete the rhombus by drawing two more lines in the square grid below. [2]
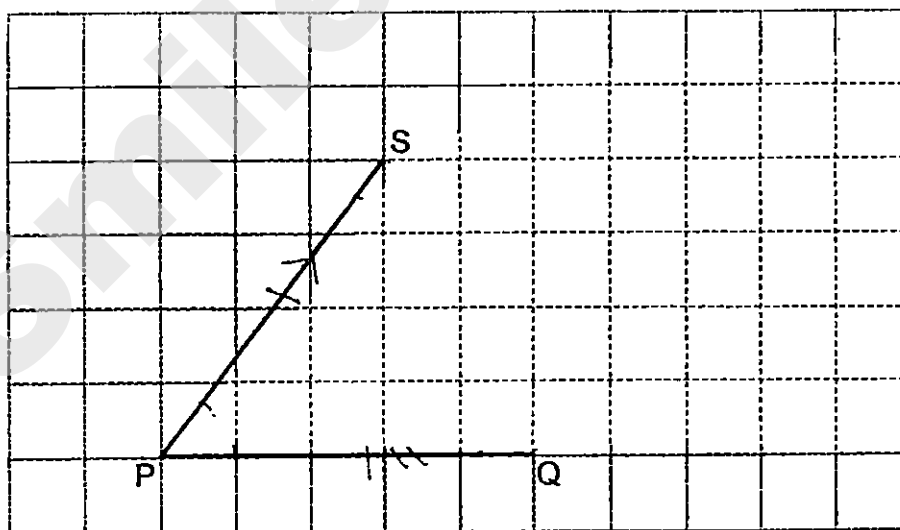
5. Find the area of the figure below.
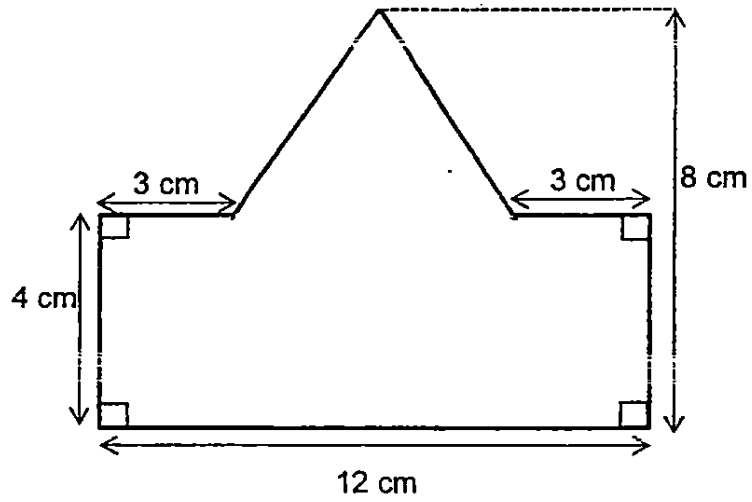
Ans:_____cm² [2]

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. Ann and Bella went to buy some identical files and writing pads from a bookstore. Ann paid $33 for 2 files and 2 writing pads.

    Bella paid $71.10 for 5 files and 2 writing pads.

    How much would 5 files cost at this bookstore?

    Ans : _____ [3]

7. In the figure, ABC is an equilateral triangle. BECF is a straight line.
    ∠AGD is 53°. Find ∠EDC.

    Ans: _____ [3]

P
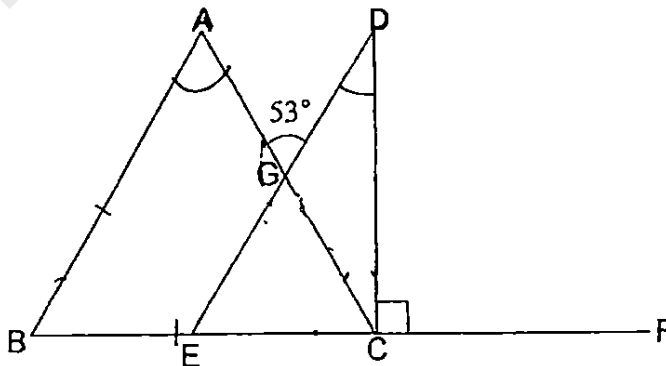
8. 40 pupils from Class 4A sat for a test. The average score for the test was 76.8. Later, it was discovered that the score of one pupil was wrongly recorded as 62. After correcting the score, the average score of the class was 77.2. What was the actual score of this pupil?

Ans: _____ [3]

9. Rachel had 96 marbles and Jane had 300 marbles. Mr Loh gave each of them an equal number of marbles. After that, Jane had three times as many marbles as Rachel.

   (a)   How many marbles did Mr Loh give to Rachel?
   (b)   In the end, how many marbles did the girls have altogether?

Ans: a) _____ [3]

b) _____ [1]

10. Jaya Primary School had 2480 pupils altogether. There were 420 more girls than boys in the school.

(a) What is the percentage of the boys in Jaya Primary School?
Round off your answer to 2 decimal places.

(b) 60% of the boys and 30% of the girls of the school participated in a swimming competition.
What is the difference between the number of boys and number of girls who participated in the competition?

Ans : (a) _____ [2]

(b) _____ [2]

11. The parking charges at a shopping centre are as follows:

First hour or less	$2.50
Every subsequent hour or part thereof	$1.10

Mrs Chan parked her car at the shopping centre from 1.25 p.m. to 7 p.m..
How much would she have to pay for the parking?

Ans: _____ [3]

12. The diagram below shows tank A and tank B filled with some water initially.
Tank A measuring 45 cm by 22 cm by 30 cm is $\frac{2}{3}$ filled with water.

30cm

22cm

45 cm

Tank A

50 cm

12 cm

40 cm

35 cm
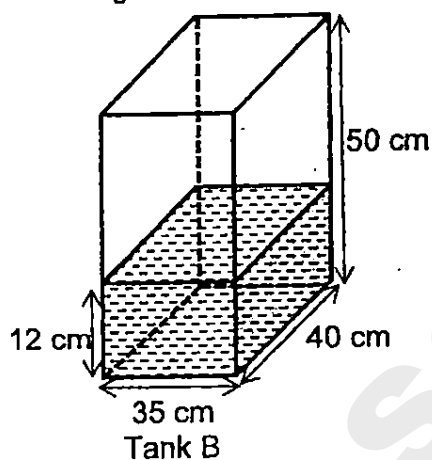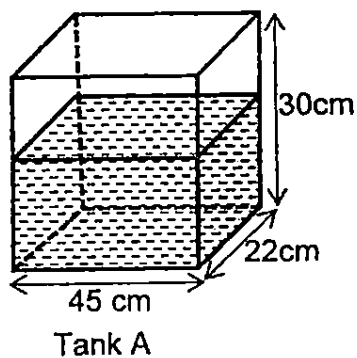
Tank B

(a) Find the volume of water in Tank A.
(b) Ray poured all the water from Tank A to Tank B without spilling.
How much more water is needed to fill Tank B to its brim?

Ans: (a)_____ [1]

(b)_____ [3]

Pā
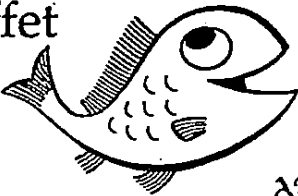
13.

Mama Mia Buffet Restaurant

All you can eat buffet dinner

Adult $ 62*
Child(12 years& below) $ 32*

* The prices above are before GST

Monday to Sunday
For a Limited time only!

The advertisement above shows the pricing of a buffet dinner at Mama Mia Buffet Restaurant.

(a) How much does an adult pay for his buffet dinner at the restaurant after 7% GST?

(b) Some adults and one child went for the buffet dinner at Mama Mia Buffet Restaurant. They paid $ 365.94 in total after 7% GST.
How many adults went for the dinner?

Ans: (a) _____ [1]

(b) _____ [3]

14. At a bus interchange, 23 more adults than children boarded a bus. When the bus reached Bus Stop Y, 12 adults alighted and 5 children boarded it. When the bus reached Bus Stop Z, only 10 children alighted. In the end, there were 3 times as many adults as children left on the bus.

(a) How many children were left on the bus after 10 children alighted at Bus Stop Z?

(b) How many adults boarded the bus at the bus interchange?

Ans: (a) _____ [2]

(b) _____ [2]
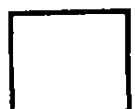
15. Amir had 72 coins that were either 20¢ or 50¢ coins. He paid for 3 books at $8 each, and he still had $7.20 left.

How many 50¢ coins did Amir have at first?

Ans: _____ [4]

16. Aini receives an allowance of $2.20 while Lisa receives 40¢ more than her every day. Every day, Aini saves 90¢, which is three times as much as what Lisa saves every day.

(a) How many days will Lisa take to save $15.60?

(b) How much would Lisa have spent when Aini has spent $185.90?

Ans: (a) _____ [2]

(b) _____ [3]

17. There are some pupils in a class.

$\frac{3}{8}$ of the girls and $\frac{3}{5}$ of the boys of the class can swim.

20 pupils of the class cannot swim. There is an equal number of boys and girls who cannot swim.

How many pupils are there in the class?

Ans: _____ [4]

18. Ali has a box of red and green marbles. If he puts in 10 more red marbles, there will be $\frac{1}{5}$ as many red marbles as green marbles in the box. If he removes 20 red marbles from the box, the ratio of the number of red marbles to green marbles is 2 : 25.

a) How many red marbles are there in the box?
b) Find the total number of red and green marbles in the box.

Ans: (a) _____ [3]

(b) _____ [2]

End of Paper
Please check your work carefully ☺

Setters : Ms Kim Ang
           Ms Tan Li Zhen
           Mdm Wirda Sukor

LEVEL   : PRIMARY 5
SCHOOL : RAFFLES GIRLS' PRIMARY SCHOOL
SUBJECT : MATHEMATICS
TERM   : SA2

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

Q1. 67°
65 x 2 = 130
180 – 130 = 50
50 + 63 = 113
180 – 113 = 67

Q2. 52°
107 + 47 = 154
180 – 154 = 26
26 x 2 = 52
180 – 52 = 128
180 – 128 = 52

Q3. 1750 cookies
350 x 2 = 700
2000 – 700 = 1300
1300 + 450 = 1750

Q4. SEE PICTURE
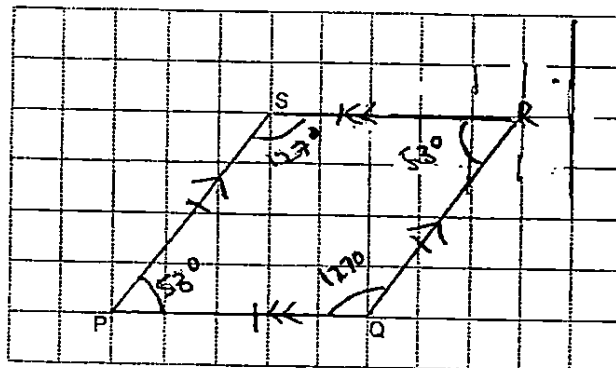
Q5. 60cm²
½ x 4 x 6 = 12
4 x 12 = 48
48 + 12 = 60

2f =$33
5f = $71.10
3f = $38.10
1f=$12.70
5f = $63.50

Q7. 23°
90 + 60 = 150
180 – 100 = 30
53 X 2 = 106
360 – 106 = 254
254÷2= 127
127 +30 = 157
180 -157= 23

Q8. 78 marks
76.8 x 40 = 3072
77.2 x 40 = 3088
3088 – 3072 = 16
62 + 16 = 78

Q9a. 6 marbles
204 ÷ 2 = 102, 1u →102

Q9b. 408 marbles
3+1 = 4, 4 x 102 = 408

Q10a. 41.53%
2480 – 420 = 2060
2060 ÷ 2 = 1030
$\frac{1030}{2480}$ X 100 ≈ 41.53%

Q10b. 183 boys
1030 + 420 = 1450 (girls)
1% →10.3
60%→ 618

Q11. $8
4hr + 35min ≈5hr
5 x 1.10 = 5.50
5.50 + 2.50 = 8

Q12a. 19800
30÷3=10
10 x 2 =20
20 x 45x22=19800

Q12b. 33.4 litre
50 x 40 x 35 = 16800
70000-16800 – 19800 = 33400
33400÷1000 = 33.4

Q13a. $66.34
100%➔ 62
1%➔ 0.62
7% GST of $62 is $4.34,
Total➔ $62 + $4.34 = $66.34

Q13b. 5 adults
107%➔365.94
1% ➔3.42
100%➔ 342
342 – 32 = 310
310 ÷ 62 = 5

Q14a. 8 children
23 + 5= 28
28 - 12 = 16
16 ÷ 2 = 8

Q14b. 36 adults
Adults left at BS Y 5 + 11=16
Adults at BS at first 24 + 12 = 36

Q15. 56 girls
3 x 8 = 24
24 + 7.20 = 31.20
Assume all are 20¢ coins
20¢ x 72 = 14.4
31.20 – 14.4=16.8
50¢ - 20¢ = 30¢
16.8 ÷0.30 = 56

Q16a. 52 days
2.20 + 0.40 = 2.60
90 ÷ 3 = 30¢
15.60 ÷ 0.30 = 52

Q16b. $328.90
2.20 – 0.90 = 1.30
185.90 ÷1.30 = 143
260 – 0.30 = 2.30
2.30 x 143 = 328.90

Q17. 41 pupils
20÷20=1
16+25 = 41
41 x 1 = 41

Q18a. 40 marbles
3 units 30
1 unit 10
5 units 50
50 – 10 = 40

Q18b. 290 marbles
10 x 25 = 250
250 + 40 = 290

PAPER ONE – Q16 to Q30.

Q16. 108, 1⅛, 1.2, $\frac{4}{3}$ Q17. 21   Q18. REX

Q19. 13➔⅓m ⅔m x 20 = $\frac{40}{3}$ = 13⅓m

Q20. $380 ➔140+160+80=380

Q21. 18 ➔19 +13+17+21 =90, 90÷5=18

Q22. 124°   Q23. 86° ➔180 – 47 – 47 = 86

Q24. SEE PICTURE
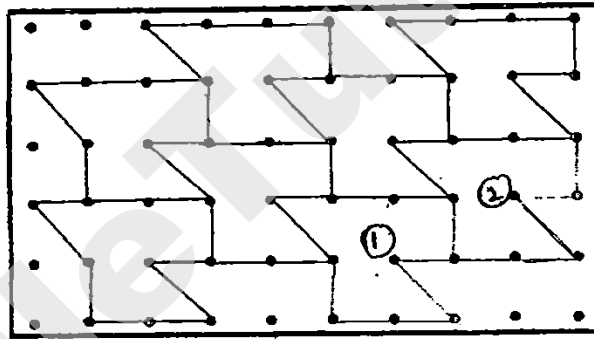
Q25. 15% ➔200-80-90=30, $\frac{30}{200}$ x 100% = 15%

Q26. 10 ➔⅖kg =400g, 4kg =4000g, 4000÷400=10

Q27. 0.325➔ 1l = 1000ml, 2l+600ml = 2600ml, 2600ml ÷8=325ml = 0.325litre

Q28. 42cm³➔ 4 x 3 x4=48, 6x1=6, 48-6=42

Q29. SEE PICTURE   The line PQ has been drawn for you.
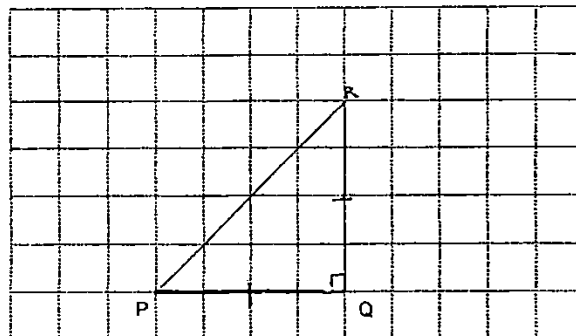
Q30. 550 ➔140 x 2 = 280, 270 x 1 = 270, 330 x 0 =0, 280+270=550

RED SWASTIKA SCHOOL

RED SWASTIKA SCHOOL

RED SWASTIKA SCHOOL

2015 SEMESTRAL ASSESSMENT 2

MATHEMATICS
PAPER 1

Name : _____ (   )

Class : Primary 5 / _____

Date   : 20 Oct 2015

BOOKLET A

15 Questions
20 Marks
Duration of Paper 1 (Booklets A & B): 50 minutes

<u>Note:</u>

1. Do not open this Booklet until you are told to do so.
2. Read carefully the instructions given at the beginning of each part of the Booklet.
3. Do not waste time. If a question is difficult for you, go on to the next one.
4. Check your answers thoroughly and make sure you attempt every question.
5. In this booklet, you should have the following:
   (a) Page <u>1</u> to Page <u>4</u>
   (b) Questions <u>1</u> to <u>15</u>
6. You are <u>not</u> 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 correct oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

---

1   4 379 700 = 4 millions + 372 thousands + ☐ hundreds

What is the missing number in the box?

(1)   7
(2)   70
(3)   77
(4)   700

2   Mdm Aminah bought 3 kg of crabs. She cooked $\frac{2}{5}$ of it. How many kilograms of crabs were left?

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

(2) $1\frac{4}{5}$ kg

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

(4) $3\frac{2}{5}$ kg

3   3 hundreds, 5 tenths and 6 thousandths is _____.

(1)   350.006
(2)   300.650
(3)   300.506
(4)   300.056

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

8,   8.1,   8.01

(1)   8, 8.01, 8.1
(2)   8.1, 8, 8.01
(3)   8.1, 8.01, 8
(4)   8.01, 8.1, 8

5 The perimeter of a rectangular piece of greeting card is 72 cm. Its breadth is 15 cm. Find the length of the card.

(1) 42 cm
(2) 36 cm
(3) 29 cm
(4) 21 cm

6 The area of the triangle is _____ cm².
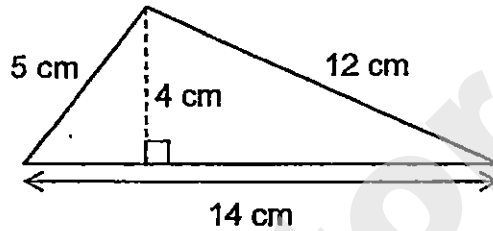
(1) 10
(2) 28
(3) 30
(4) 35

7 Which of the following shapes can be tessellated?
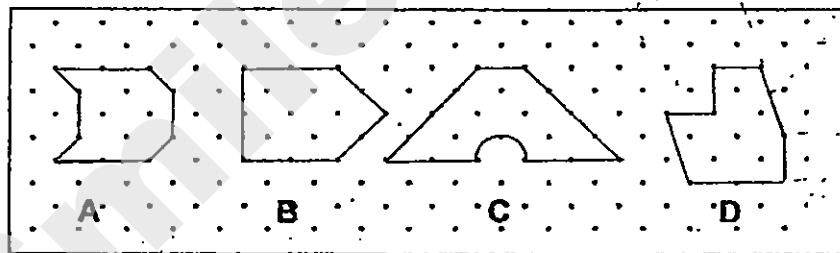
(1) A and B only
(2) A and C only
(3) A and D only
(4) A, B and D only

8 Mr Rahim bought 11 grapefruits and 22 pears. Find the ratio of the number of grapefruits to the total number of fruits bought.

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

9   In a class of 50 students, 20% of them are left-handed. How many students are right-handed?

    (1)   10
    (2)   20
    (3)   30
    (4)   40

10   Bala rented a bicycle from 16 30 to 18 00. If he was charged $5 every 30 min, how much would he need to pay?

    (1) $5
    (2) $10
    (3) $15
    (4) $20

11   The ratio of $\angle x$ to $\angle y$ to $\angle z$ is $2 : 3 : 5$. Find $\angle z$.
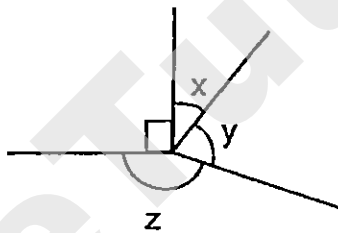
    (1)   27°
    (2)   90°
    (3)   135°
    (4)   165°

12   A shopkeeper had 24 trays of eggs. There were 36 eggs in each tray. He broke 38 eggs and sold 594 of them. How many eggs did he have left?

    (1)   216
    (2)   232
    (3)   350
    (4)   826

13 Alice cut 9.25 m of string from a ball of string. Siti cut a length of 3.6 m longer than Alice from the same ball of string. If the remaining length of string in the ball was twice the total length cut by Alice and Siti, what was the original length of the string in the ball before it was cut?

    (1)   22.1 m
    (2)   38.55 m
    (3)   44.7 m
    (4)   66.3 m

14 What is the maximum number of 2-cm cubes that can fit into a box 10 cm by 8 cm by 7 cm?

    (1)   40
    (2)   50
    (3)   60
    (4)   70

15 The figure below is made up of two triangles. What is the value of $\angle a + \angle b + \angle c + \angle d$?
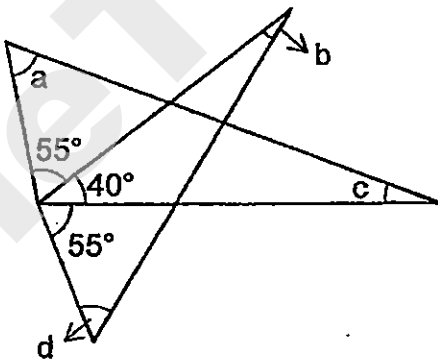
    (1)   150°
    (2)   170°
    (3)   190°
    (4)   210°

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

---

16 What is the missing number in the box?

$$624 \div 16 = 624 \div 2 \div \boxed{}$$

Ans: _____

---

17 Find the value of $24 - (11 + 5) \div 4 \times 2$.

Ans: _____

---

18 Round off the sum of 8.43 and 12.95 to 1 decimal place.

Ans: _____

---

19 What is the missing number in the box?

$$14.907 = 10 + 4 + \boxed{} + \frac{7}{1000}$$

Ans: _____
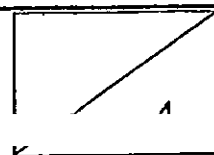
20   A movie started at 23 15 and ended at 01 05. How long did the movie last? Express your answer in hours and minutes.

Ans: _____ h _____ min

21   Muthu's height is 1.58 m. Yixiong is 15 cm taller than Muthu. What is Yixiong's height in metres?

Ans: _____ m

22   Name the letters which have parallel lines.

M A T H

Ans: _____ and _____

23   The shaded area of one face of a cube is 49 cm². Find the volume of the cube.

Ans: _____ cm³

4
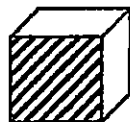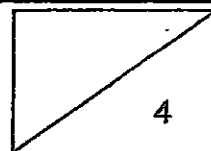
24   In the figure below, not drawn to scale, PQRS is a rectangle and the length of QR is twice the length of SR. Find the area of the shaded triangle.
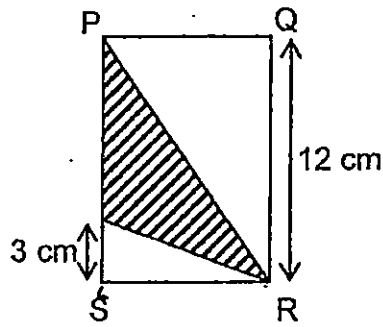
Ans: _____ cm²

---

25   A tank which has a rectangular base of 10 m by 5 m is half filled with water. If the volume of water is 810 m³, what is the height of the tank?

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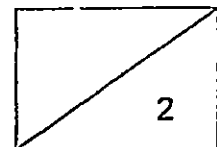
Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

26   How many eighths are there in 24?

Ans: _____

27   The prices of admission tickets to Universal Studios Singapore are shown in the table below.

Type	Price
Adult	$56
Child (aged 12 and below)	$28

Mr and Mrs Wong took their children, a boy aged 9 and a girl aged 14 to the Universal Studios Singapore. Find the total amount paid for the admission tickets for the whole family.

Ans: $ _____

4
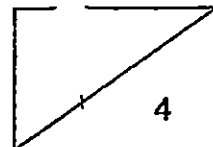
28   Cassandra has 54 stamps. Peter has 36 more stamps than Cassandra. What is the ratio of the number of stamps Cassandra has to the number of stamps Peter has? (Express your answer in its simplest form.)

Ans: _____

---

29   In a theatre, there are 25 rows of seats and each row has 8 seats. How many seats are **unoccupied** if only $\frac{3}{5}$ of the theatre is full?

Ans: _____

---

30   A rectangular piece of paper is folded in half. Using the folded edge as a base, three lines, WX, WY and WZ are drawn as shown. The figure formed is then cut out and opened up. What is the area of the cut-out shape?
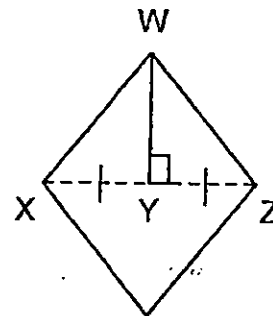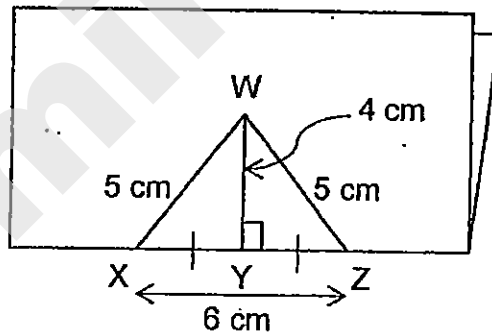
Cut-out figure when
it is opened up.

Ans: _____ cm²

END OF PAPER 1
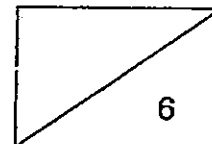
9

RED SWASTIKA SCHOOL

2015 SEMESTRAL ASSESSMENT 2

MATHEMATICS
PAPER 2

Name : _____ (   )

Class : Primary 5 / _____

Date   : 30 Oct 2015

18 Questions
60 Marks
Duration of Paper 2: 1 hour 40 minutes

Note:
1. Do not open this Booklet until you are told to do so.
2. Read carefully the instructions given at the beginning of each part of the Booklet.
3. Do not waste time. If a question is difficult for you, go on to the next one.
4. Check your answers thoroughly and make sure you attempt every question.
5. In this paper, you should have the following:
   (a) Page 1 to Page 13
   (b) Questions 1 to 18
6. You are allowed to use a calculator.

MARKS

	OBTAINED	POSSIBLE
PAPER 1		40
PAPER 2		60
TOTAL		100

Parent's Signature :

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

1   The total perimeter of the square and rectangle shown below is 92 cm. Find the area of the square.

19 cm

7 cm
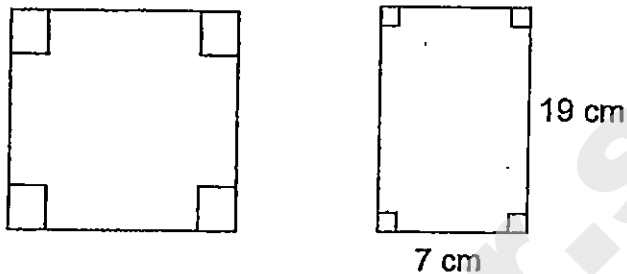
Ans: _____ cm^2

2   Shade more squares to complete the figure which has the line AB as the line of symmetry.

A

B

4
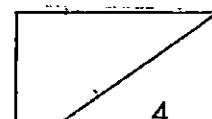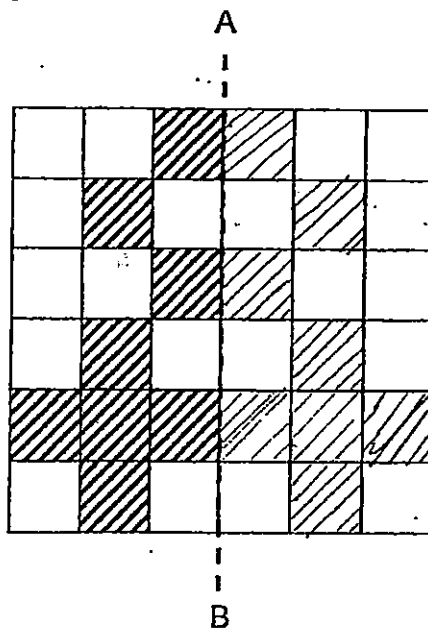
3 The bar graph below shows the number of children each family has. Use it to answer Questions 3a and 3b.
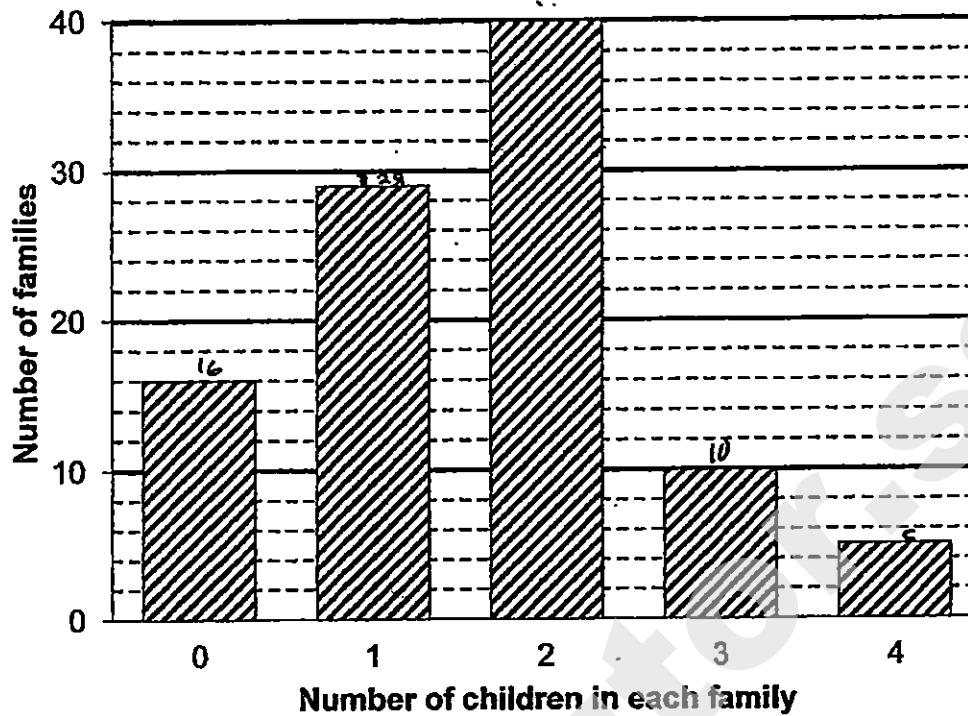
(a) How many families have more than 2 children?

(b) How many children are there in the housing estate?

Ans: (a) _____ [1]

(b) _____ [1]
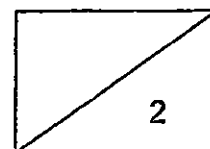
4   In a group of 80 students, 56 of them were girls. What percentage of the students were boys?

Ans: _____ %

5   There are 24 bottles of milk in a carton. Each bottle of milk has a mass of 0.49 kg. The mass of the empty carton is 0.4 kg. What is the total mass of the carton and the bottles of milk? (Round off your answer to the nearest tenth.)

Ans: _____ kg
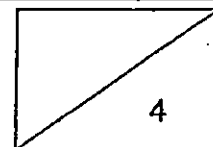
4

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

(50 marks)

---

6   Mr Lim bought 246 boxes of pencils. Each box contains 9 pencils. He gave away $\frac{2}{9}$ of the pencils and packed the rest of the pencils into packets of 3. How many packets of pencils were there?

Ans: _____ [3]

---

7   When $\frac{2}{5}$ of a metal box was filled with marbles, its mass is 44.4 kg. When it is 0.25 filled with marbles, its mass is 28.2 kg. What is the mass of the empty metal box?

Ans: _____ [3]

6
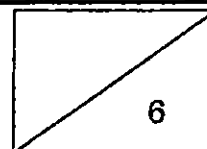
8   Mrs Yeo bought 5 dresses. Two of the dresses cost $108.30 altogether and the other three dresses cost $52.90 each. Find the average price of the 5 dresses.

Ans: _____ [3]

---

9   In the figure below, not drawn to scale, ABCD is a trapezium and CDE is an isosceles triangle.

    (a)   Find ∠CED.

    (b)   Find ∠ADE.
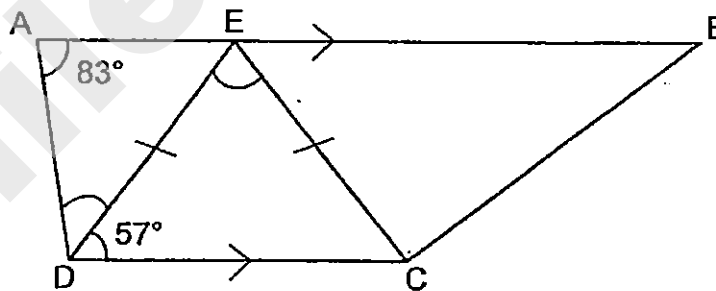
Ans: (a) _____ [1]

(b) _____ [2]
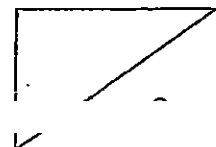
10 Jack and Marcus received an equal amount of money. After Jack spent $70 and Marcus spent thrice as much as Jack, The ratio of Jack's remaining money to Marcus's became 2 : 1. How much money did each boy receive at first?

Ans: _____ [3]

---

11 For every 8 students going for an excursion, there must be one accompanying teacher. 192 students and the required number of teachers are scheduled for an excursion to the zoo. However, on the day of the excursion, 18 students were absent and 5 more teachers followed the group of teachers and students who were present to the zoo. What is the new number of students to each teacher then?

Ans: _____ [3]

6
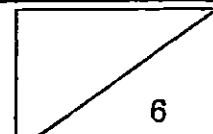
12 A television set cost $3 600. Mr Lim bought it during a sale at a discount of 25%. On top of that, he has to pay an additional 7% GST on the sale price.

(a) How much GST did he have to pay?

(b) How much did Mr Lim pay altogether?

Ans: (a) _____ [2]

(b) _____ [2]

4

7
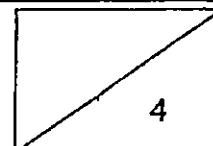
13 Hasanah gave $\frac{3}{7}$ of her stickers to her brother and $\frac{3}{5}$ of the remainder to her sister. After giving stickers to her brother and sister, she then gave the rest to her three friends. If each of her friends received 40 stickers, how many stickers did Hasanah have at first?

Ans: _____ [4]
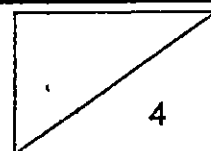
14 A sum of money was divided among three sisters, Elsie, Felicia and Heather in the ratio 3 : 2 : 1 respectively. After Elsie gave $6 to Felicia and $3 to Heather, the ratio of the amount of money Elsie had to the amount of money Felicia had to the amount of money Heather had become 2 : 2 : 1 respectively. What was the sum of money that Felicia and Heather had at the end?

Ans: _____ [4]

4
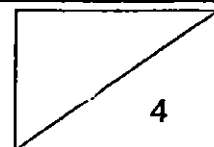
15 $\frac{3}{8}$ of the people in a cinema were men. $\frac{2}{5}$ of the remainder were women and the rest were children. Given that there were a total of 120 children, and that there were 30 more boys than girls, what fraction of the people in the cinema were boys? (Express your answer in its simplest form.)

Ans: _____ [5]

5
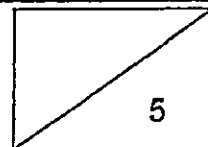
16 A rectangular container measuring 8 m by 0.2 m by 10 m was 60% filled with clay.

(a) What was the volume of clay?

(b) When the clay hardened, it was removed from the rectangular container. How many cubes of sides 20 cm could be cut from the hardened clay?

Ans: (a) _____ [2]

(b) _____ [3]

5
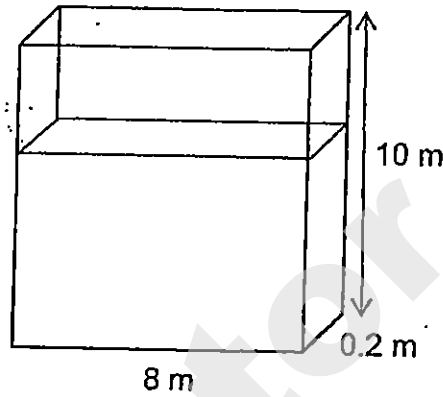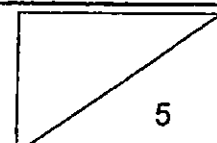
17 Xavier bought 5 t-shirts and 2 pairs of shorts. A t-shirt cost $21 less than a pair of shorts. He would have spent $15 less if he had bought 2 t-shirts and 3 pairs of shorts instead.

(a) Find the cost of a t-shirt.

(b) How much money did Xavier have?

Ans: (a) _____ [2]

(b) _____ [3]

5
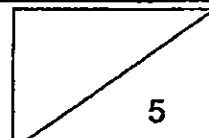
18   Mr Lee bought a dining set for $1 260 after a discount of 30%.

(a)   What was the price of the dining set before discount?

(b)   Mr Lee then bought a computer table for $450. The total discount for the dining set and the computer table was $690. What was the percentage discount given for the computer table?

Ans: (a) _____ [2]

(b) _____ [3]

END OF PAPER 2
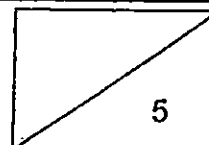
5

EXAM PAPER 2015
LEVEL   : PRIMARY 5
SCHOOL   : RED SWASTIKA SCHOOL
SUBJECT : MATHEMATICS
TERM   : SA2

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

Q16. 8 ➔ 16÷2=8

Q17 16➔ 24 - 16÷4x2=24-4x2=24-8=16

Q18. 21.4 ➔8.43 + 12.95≈21.4

Q19. $\frac{9}{10}$ ➔0.9=$\frac{9}{10}$ Q20. 1hr 50 min

Q21 1.73m 15cm = 0.15m, 1.58 + 0.15m = 1.73m

Q22. M and H   Q23. 343cm³ ➔$\sqrt{49}$ = 7 , 7 x 7 x 7 = 343

Q24. 27cm² ➔ SR = 12 ÷2=6, ½ x 3 x 6 = 9, ½ x 12 x 6 = 36, 12 x 6 = 72, 72 – 36-9=27

Q25. 32.4m➔ 810 x 2 = 1620, 1620 ÷ 10 ÷ 5 = 32.4

Q26. 192 ➔24 x 8 = 192

Q27. $196 ➔56 x 3 = 168, 168 + 28 = 196

Q28. 3:5➔ 54 + 36= 80, 54:90=6:10 = 3:5

Q29. 80➔ 25 x 8 = 200, ⅖ x 200 = 80

Q30. 24cm² ➔ ½ x 4 x 6 = 12, 12 x 2 = 24

Q1. 100cm² ➔92-19-19-7=40, 40÷4=10, 10 x 10 = 100

Q2. SEE PICTURE
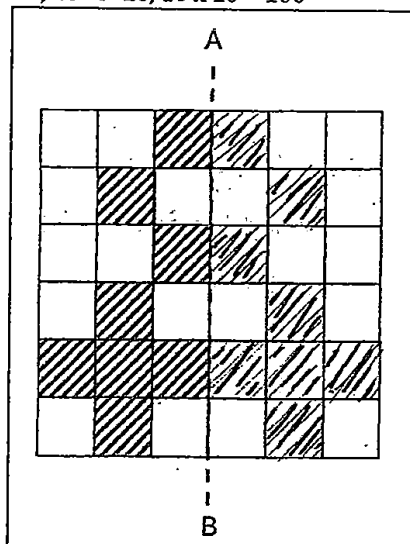
Q3a. 15 ➜ 10+5=15

Q3b. 159 ➜ (0 x 16) + (1x29) + (2 x 40) + (3 x 10) + (4 x 5) = 0+29+80+30+20=159

Q4. 30% ➜ 80 − 56 = 24, $\frac{24}{80} = \frac{3}{10}$ = 30%

Q5. 12.2kg 24 x 0.49 = 11.76, 11.76 + 0.4 = 12.16, 12.16≈12.2

Q6. 574 ➜ 246 x 9 = 2214, $1 - \frac{2}{9} = \frac{7}{9}, \frac{7}{9}$ x 2214 = 1722, 1722 ÷ 3 = 574

Q7. 1.2kg
0.25 =¼
$\frac{2}{5}$ - ¼ = $\frac{3}{20}$
3 marble ➜ 44.4 − 28.2 = 16.2
1 marble ➜ 16.2÷3=5.4
5.4 x 20 = 108
$\frac{2}{5}$ x 108 = 43.2
44.4 − 43.2 = 1.2

Q8. $53.40 ➜ 52.90 x 3 = 158.70, 108.30+158.70=267, 267÷5=53.40

Q9a. 66° ➜ ∠CED = 180 -57 − 57 − 56 = 66

Q9b. 40° ➜ 180 − 83 = 97, 97 − 57 = 40

Q10. $350 ➜ 70 x 3 = 210, 1u 210-70=140, 140+210=350

Q11. 6 ➜ 192 ÷ 8 = 24, 192 − 18 = 174, 24 = 5 = 29, 174 ÷ 29 = 6

Q12a. $189 ➜ 100 − 25 = 75, $\frac{75}{100}$ x 3600 = 2700, 2700÷100=27, 27 x 7 = 189

Q12b. $2889 ➜ 2700+189=2889

Q13. 525 ➜ 40 x 3 = 120, $1 -\frac{3}{7} = \frac{4}{7}$, $1 − \frac{3}{5} = \frac{2}{5}$, $\frac{2}{5}$ x $\frac{4}{7} = \frac{8}{35}$, 120÷8=15, 15x35=525

Q14. $54
Total unchanged
Before ➜ E: F: Total, 3 : 2:1:6 = 15:10:5:30
After ➜ E;F:H:Total, 2:2:1;5, 12:12:6:30
2u ➜ $6, 1u ➜ $6÷2=$3, 12+6=18, 18u ➜ $3 x 18 = $54

Z

Q15. $\frac{15}{64}$

$1 - \frac{2}{8} = \frac{5}{8}$

$\frac{2}{5} \times \frac{5}{8} = \frac{1}{4}$

Children → $1 - \frac{3}{8} - \frac{1}{4} = \frac{3}{8}$

$120 - 30 = 90, 90 \div 2 = 45$

Boys → $45 + 30 = 75, 120 \div 3 = 40, 40 \times 8 = 320, \frac{75}{320} = \frac{15}{64}$

Q16a. $9.6m^3$ → $\frac{60}{100} \times 8 \times 0.2 \times 10 = 9.6m^3$

Q16b. 1200

$\frac{60}{100} \times 10 = 6$, 8m = 800cm, 0.2m = 20cm, 6m = 600cm, $800 \div 2 = 40$, $20 \div 2 = 1$, $600 \div 20 = 30$, $40 \times 1 \times 30 = 1200$

Q17a $18

Q17b. $168 → $54 \div 3 = 18$, $18 \times 5 = 90$, $90 + 78 = 168$

Q18a. $1800 → $100 - 30 = 70$, $1260 \div 70 = 18$, $18 \times 100 = 1800$

Q18b. 25% → $18 \times 30 = 540$, $690 - 540 = 150$, $450 + 150 = 600$, $\frac{150}{600} = \frac{1}{4} = 25\%$

THE END

3

Rosyth School
Second Semestral Assessment 2015
Primary 5 Mathematics

Name: _____   Register No. _____

Class: Pr 5 -_____

Date: 30th October 2015   Parent's Signature: _____

Total Time for Booklets A and B : 50 minutes

PAPER 1
(Booklet A)

<u>Instructions to Pupils:</u>

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	

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

(20 marks)

1. 7 hundred thousands + 3 hundreds + 50 ones = _____

   (1) 7305

   (2) 7350

   (3) 700 305

   (4) 700 350

2. Round off 23 714 to the nearest thousand:

   (1) 20 000

   (2) 23 000

   (3) 23 700

   (4) 24 000

3. What is the difference between 3 tenths and 20.45?

   (1) 10.45

   (2) 17.45

   (3) 20.15

   (4) 20.75 —

(Go on to the next page.)

4. The following model represents the number of marbles in 3 boxes, A, B, and C.
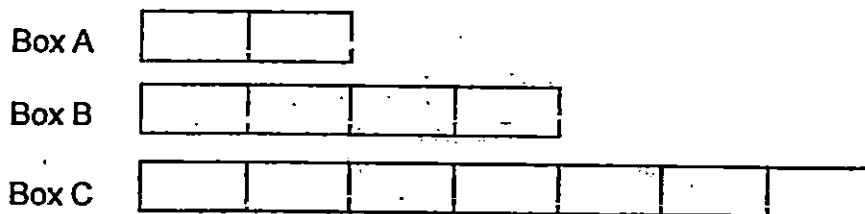
What is the ratio of the number of marbles in Box C to the total number of marbles in Box A and Box B?

(1)   6 : 7

(2)   7 : 6

(3)   7 : 13

(4)   13 : 7

5. Amos sat for 3 tests. He scored 90 marks for one test. He scored a total of 90 marks for the other 2 tests. What was the average mark of the 3 tests?

(1)   30

(2)   45

(3)   60

(4)   90

6. Which one of the following is **not** equivalent to $1\frac{1}{5}$?

(1)   1.15

(2)   1.2

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

(4) $\frac{12}{10}$

3

7. What is the area of triangle ABC as shown in the figure?
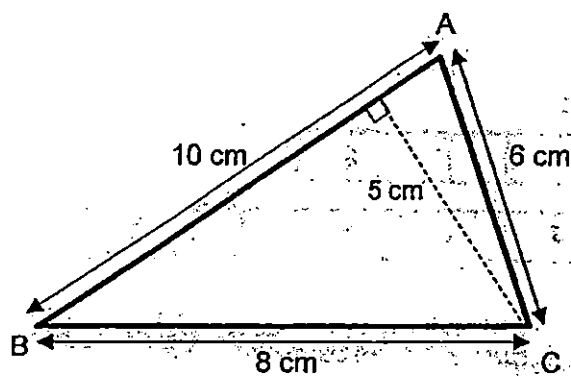
(1) 20 cm²

(2) 25 cm²

(3) 30 cm²

(4) 40 cm²

8. The ratio of number of roses to the number of lilies in a flower shop is 8 : 5. There are 40 lilies. How many more roses than lilies are there?

(1) 8

(2) 15

(3) 24

(4) 64

4

9. Jude is facing east. If he turns 135° anticlockwise, which direction will he be facing?

   (1) North-west

   (2) North-east

   (3) South-west

   (4) South-east

10. Dave used $\frac{3}{8}$ m of wire to make 5 identical triangles. What is the perimeter of each triangle?

   (1) $\frac{3}{40}$ m

   (2) $\frac{8}{15}$ m

   (3) $1\frac{7}{8}$ m

   (4) $13\frac{1}{3}$ m

11. Alan and Jared collect seashells. The average number of seashells each boy has is 250. Alan has 40 seashells more than Jared. How many seashells does Jared have?

   (1) 55

   (2) 230

   (3) 270

   (4) 290

5

12. A baker baked some bread. He sold $\frac{2}{5}$ of them in the morning and another $\frac{1}{3}$ in the afternoon. Then he had 28 loaves left. How many loaves of bread did he bake?

    (1) 30

    (2) 39

    (3) 70

    (4) 105

13. The table below shows the charges for bicycle rental.

Bicycle For Rental	
For the first hour	$3
For every additional $\frac{1}{2}$ hour	$1.20

Lynn rented a bicycle from 9.30 am to 12 noon. How much did she pay?

    (1) $4.20

    (2) $6.60

    (3) $7.20

    (4) $9

6

14. A container, 50 cm by 10 cm by 30 cm, is $\frac{1}{3}$ filled with water. How much more water is needed to fill up the container to the brim?
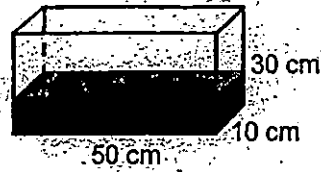
(1) 20 cm³

(2) 5000 cm³

(3) 10 000 cm³

(4) 15 000 cm³

15. Hassim had $80. He spent 50% of his money on a watch and 30% of the remainder on a book. How much money was left?

(1) $8

(2) $12

(3) $16

(4) $28

— Proceed to Booklet B

7

Rosyth School
Second Semestral Assessment 2015
Primary 5 Mathematics

Name: _____ Register No.: _____ _

Class: Pr 5 - _____

Date: 30th October 2015   Parent's Signature: _____

Total Time for Booklets A and B : 50 minutes

PAPER 1
(Booklet B)

<u>Instructions to Pupils:</u>

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 <u>6</u> pages (including this cover page)

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

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

(10 marks)

Do not write in this space.

16. Find the value of 60.3×70.

Ans: _____

17. Find the value of $30 - (6 \times 3) \div 9 + 9$.

Ans: _____

18. In the figure below, ABCD is made up of squares. What fraction of ABCD is shaded? Leave your answer in its simplest form.

Ans: _____

(Go on to the next page.)
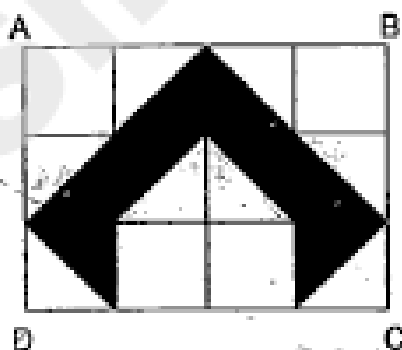
19. Express $5\frac{3}{7}$ as a decimal correct to 1 decimal place.

Ans: _____

20. Express $\frac{3}{8}$ as a percentage.

_____ %

21. Ali, Sharon and Leah shared a sum of money in the ratio of 5 : 4 : 7. Leah's share was $60 more than Sharon's. How much was Ali's share?

Ans: $ _____

22. There were 20 girls and 17 boys in an Art Club. This month, 4 girls joined the club and 3 boys left the club. What is the ratio of the number of boys to the number of girls in the Art Club now? Leave your answer in the simplest form.

Ans: _____

3   (Go on to the next page.)

23. What fraction of the square STUV is unshaded? Leave your answer in its simplest form.

Ans: _____
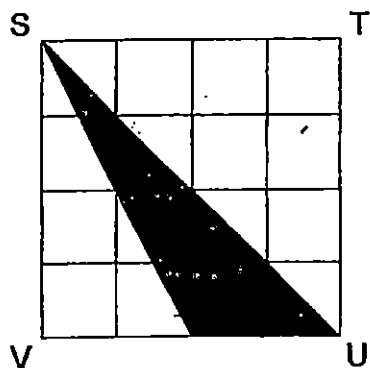
24. Write down the base and height of Triangle ABC.
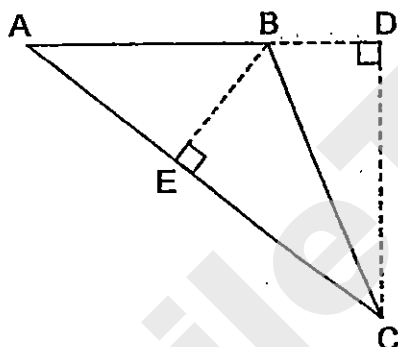
Ans: Base _____

Height _____

25. Alex cycled a distance of 160 km in 5 days. What was the average distance he cycled per day?

Ans: _____ km

(Go on to the next page.)

Questions **26** to **30** carry 2 marks each. Show your workings clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.
All diagrams are not drawn to scale unless stated otherwise.

(10 marks)

Do not
write in
this space.

—

26.   In the figure below, what is the area of triangle ABC?
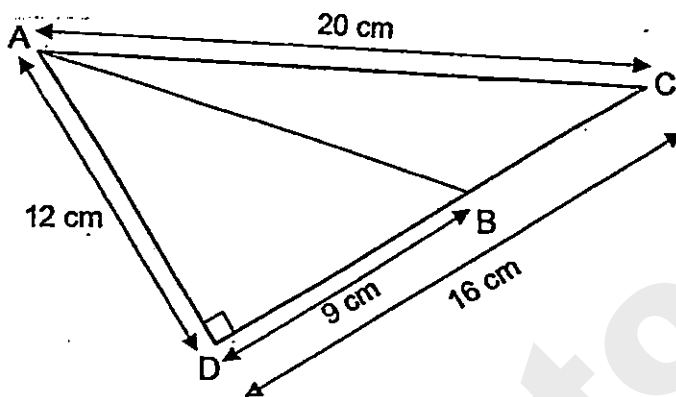
Ans: _____ cm²

27.   The figure below is made up of triangles STW and TUV. STV and WTU are straight lines. Find ∠ UVT.
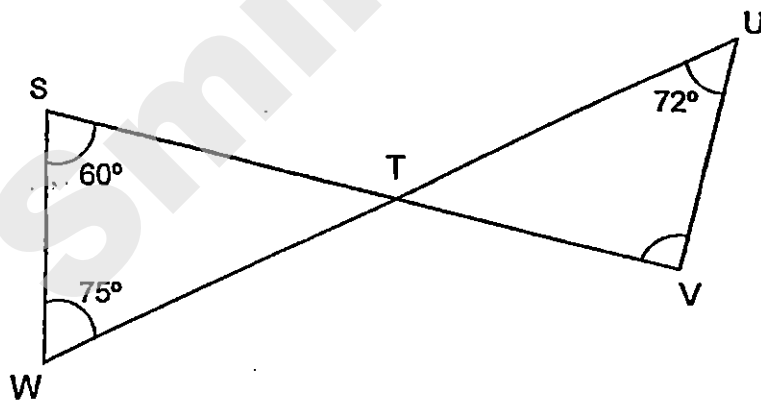
Ans: _____ °

28. In the diagram below, ABC and ACD are isosceles triangles. Find ∠x.

Ans: _____ °
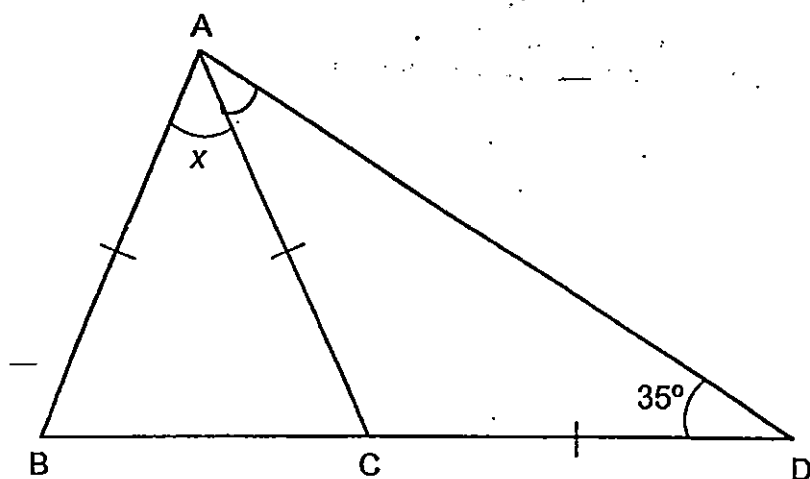
29. Joan spent an equal amount of money each day from Monday to Wednesday. She spent a total of $15. On Thursday and Friday, she spent $5.50 each day. Find the percentage increase in the amount spent on Thursday as compared to Wednesday.

Ans: _____ %

30. Joe placed 10 potted plants in a row at equal distances apart. The distance between the first and the fifth potted plant was 25.2 m. Find the distance between the first and the last potted plant.

Ans: _____ m

End of paper. Have you checked your work?

6

Rosyth School
Semestral Assessment 2 2015
Primary 5 Mathematics

Name: _____   Register No. _____

Class: Pr 5 - _____

Date: 30 October 2015

Time: 1 h 40 mins

PAPER 2

Instructions to Pupils:

1. Do not open this booklet until you are told to do so.

2. Follow all instructions carefully.

3. **Show your workings clearly** as marks are awarded for correct working.

4. Write your answers in this booklet.

5. You are allowed to use a calculator.

6. Answer all questions.

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

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

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

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)

All diagrams in this paper are not drawn to scale unless stated otherwise.

1. For every $15 Wei Hong saved, his mother gave him $3. At the end of the year, Wei Hong had a total of $828. How much money did he save?

Ans: $ _____

2. Mr Harris bought 20 belts. He sold 12 of them at $8 each and the rest at $6 each. What was the average price of the 20 belts?

Ans: $_____

3   Given TU = 8 cm, construct Triangle STU such that ∠STU = 70° and ∠TUS = 40°. Label your diagram clearly.

(Go on to the next page)
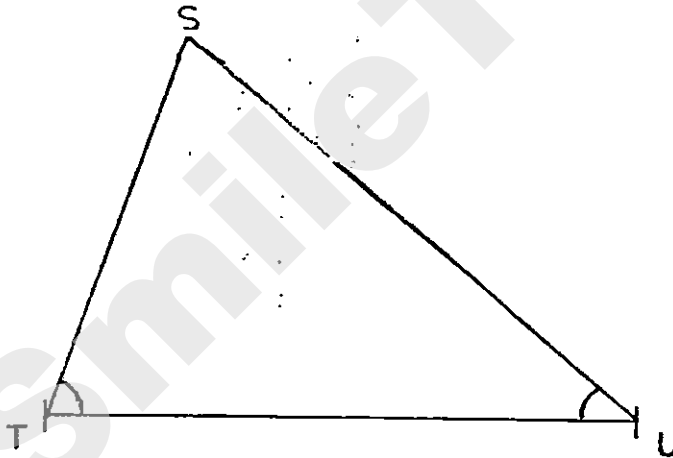
4. A cubical container of edge 25 cm was filled to the brim at first. Some water was drained away from the container and resulted in a 6 cm drop in the water level as shown in the diagram below. Find the amount of water left in the container. Leave your answer in litres and millimetres.

25 cm

25 cm

25 cm
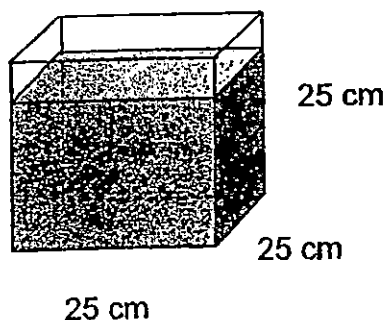
Ans: _____ml

5. The figure below consists of 2 triangles A and B whose areas are in the ratio of 3 : 1. Given that $\frac{1}{12}$ of triangle A is shaded, what is the ratio of the shaded area to the unshaded area of the figure?
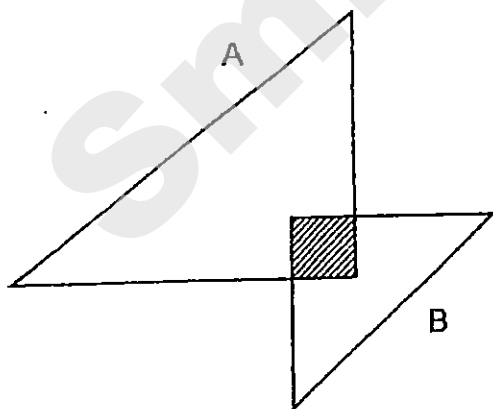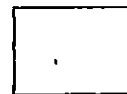
A

B

Ans: _____

4 (Go on to the next p

For Questions **6** to **18**, show your working clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in brackets (   ) at the end of each question or part-question. For questions which require units, give your answers in the units stated.

All diagrams in this paper are not drawn to scale unless stated otherwise.

(50 marks)

6.   The figure below shows a cuboid with a square base which has a perimeter of 64 cm.   Find the volume of the cuboid.

22 cm

Ans: _____ [3]

(Go on to the next page)
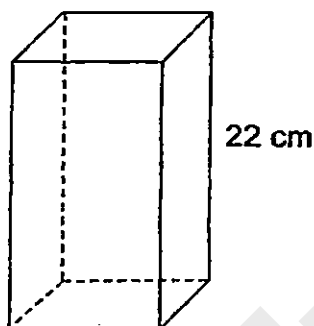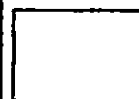
7. May, Ellen and Joel have a total of 475 playing cards. May has 55 playing cards more than Ellen. Ellen has twice as many playing cards as Joel. How many playing cards does May have?

Ans: _____ [3]

6   (Go on to the next page)

8. ABCD is a rectangle measuring 33 cm by 30 cm. The length of FH is 5 cm. Given that the length of DG is $\frac{1}{2}$ of GC, find the shaded area.

33 cm

A   E   B

30 cm

F

5cm

D   H G   C
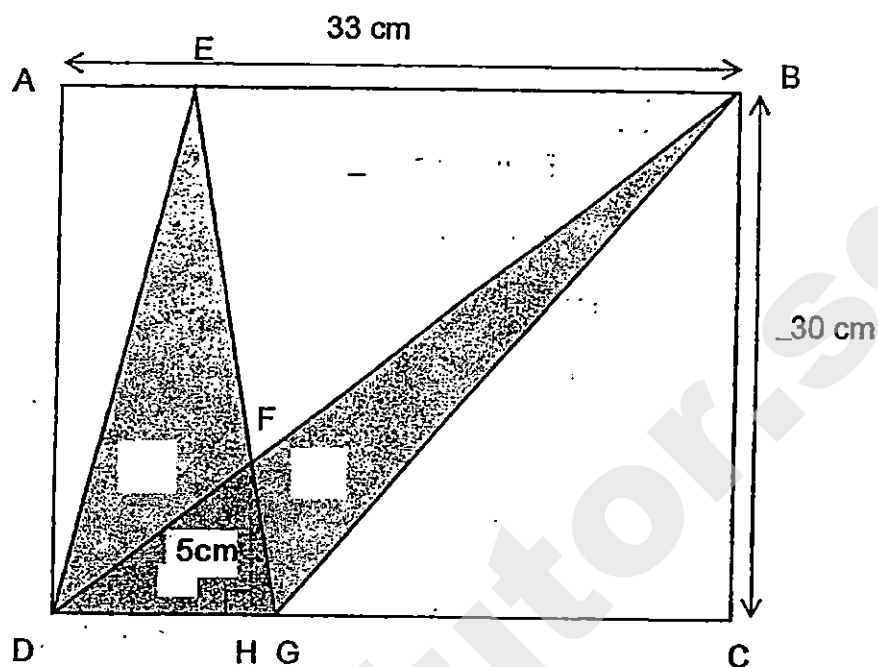
Ans. _____ [3]

9. Ethan is $\frac{1}{3}$ as old as his aunt 10 years ago, the ratio of Ethan's age to his aunt's age was 1 : 7. How old is Ethan now?

Ans:_____ [3]

(Go on to the next page)

10. Ali spent 40% of his monthly income and saved the rest. If he spent 25% of his income, his savings increased by $840. How much is his monthly income?

Ans: _____ [3]

(Go on to the next page)

11. Iman and Yuven had some marbles. After Iman and Yuven gave away the same number of marbles, Iman had $\frac{3}{4}$ of his marbles left while Yuven had $\frac{1}{3}$ of his marbles left. Both of them had 385 marbles in the end. How many marbles were given away altogether?

Ans: _____ [3]

(Go on to the next page)

12. Arif, Bee Leng, Chandra and Don donated some books for charity. Arif donated $\frac{1}{4}$ of the number donated by Bee Leng, Chandra and Don. The ratio of the number of books donated by Bee Leng to the number of books donated by Chandra and Don was 3 : 5. The ratio of the number of books donated by Chandra to the number of books donated by Don was 3 : 7. Arif donated 8 books more than Chandra.

(a)   What was the total number of books donated by the 4 children?

(b)   How many books must Don give to Chandra so they would have the same number of books?

Ans: (a) _____ [3]

(b) _____ [2]
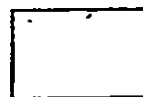
13. A bag cost $25 more than a cap and $13 more than a shirt. Kelly bought a bag, 2 caps and 4 shirts. She paid a total of $213.

(a) How much did the bag cost?

(b) Kelly bought 3 more caps at half price each. What is the total amount she had to pay for all the items she bought?

Ans: (a) _____ {2}

(b) _____ [2]

(Go on to the next page)

14. Wires are bent to form the following shapes.
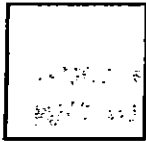
A square

An isosceles triangle
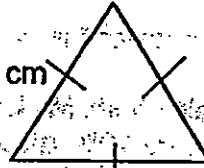
An equilateral triangle

The average length of the wire used for each shape above is 17 cm. Find the length of a side of the isosceles triangle.

Ans: _____ [4]

(Go on to the next page)

15. Mr Lim sells a watch for $280. Mr Tan also sells the same type of watch but at a price which is 25% more than Mr Lim.

(a) What is the price of the watch that is sold by Mr Tan?

(b) During a sale, both Mr Lim and Mr Tan gave a discount on the watch. Mr Lim gave a 12% discount while Mr Tan gave a certain percentage discount. Alice bought the watch from Mr Tan and paid $1.40 less than the discounted price offered by Mr Lim. What was the percentage discount given by Mr Tan?

Ans: (a) _____ [2]

(b) _____ [3]

(Go on to the next page)

16. A bag contains a number of 20-cent coins, 50-cent coins and $1 coins. $\frac{1}{4}$ of the coins are 20-cent coins. $\frac{2}{5}$ of the remainder are 50-cent coins and the rest are $1 coins. The total value of the coins is $156.

(a) What fraction of the coins are $1 coins?
(b) How many coins are there altogether?

Ans: (a) _____ [1]

(b) _____ [4]

(Go on to the next page)

17. Mrs Lew ordered 82 popsicles to be shared equally by 41 students in her class. All the boys were present but some girls were not in school that day due to a dance competition. After giving each student who was in class one extra popsicle each, Mrs Lew still had 1 popsicle left.

(a) How many girls were not in school?

(b) There were twice as many boys as girls who turned up in her class that day. What was the total number of girls in Mrs Lew's class?

Ans: (a) _____ [2]

(b) _____ [2]

18. The figures below are made up of rectangles and stars.
Study the figures and table below carefully and answer the questions.
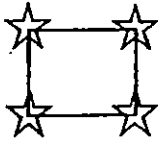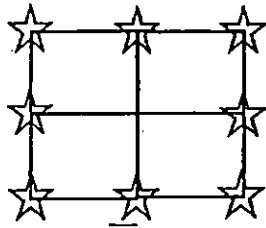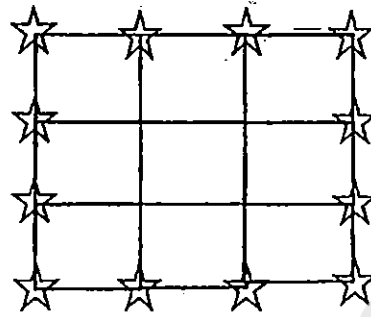
Figure 1   Figure 2   Figure 3

Figure Number	1	2	3	4	......	15
Number of stars	4	8	12	(a)	.....	.....
Number of rectangles	1	4	9	...	.....	(b)

(a) How many stars are there in Figure 4?

(b) How many rectangles are there in Figure 15?

17   (Go on to the next page)

(c) How many stars are there in the figure that has 729 rectangles?

Ans : (a) _____ [1]

(b) _____ [1]

(c) _____ [3]

_____
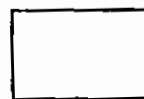
End of Paper
Please check your workings thoroughly!

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

Q16. 4221

Q17 37 ➜ 30 − 18 ÷ 9 + 9, 30 − 2 + 9, 28 ÷ 9 = 37

Q18. ⅓ ➜ $\frac{4}{12}$ = ⅓

Q19. 5.4 ➜ $5\frac{3}{7}$ = $\frac{38}{7}$

Q20. 37.5% ➜ $\frac{3}{8}$ x 100 = $\frac{75}{2}$ = 37.5%

Q21. $100 ➜ A:S:L, 5:4:7, 7 − 4 = 3, 3u 60, 1u 60 ÷ 30 = 20, 5u 20 x 5 = 100

Q22. 7 : 12 ➜ 20 + 4 = 24, 17 − 3 = 14, 24:14, 12:7

Q23. ¾ ➜ Shaded $\frac{4}{16}$, $\frac{16}{16} - \frac{4}{16} = \frac{12}{16}$, $\frac{6}{8}$ = ¾

Q24. Base : AB,   Height : DC

Q25. 32km ➜ 160 ÷ 5 = 32

Q26. 42cm²   Q27. 65°

Q28. 40°

Q29. 10% ➜ $15 ÷ 3 = $5, $5 ÷ 100 = $0.05, $0.50 ÷ $0.05 = 10

Q30. 56.7m ➜ 10 − 1 = 9, 5 − 1 = 4, 25.2 ÷ 4 = 6.3, 9 x 6.3 = 56.7

Q1. $690
15 + 3 = 18 (I set)
828 ÷ 18 = 46 (no. of sets)
46 x 15 = 690 (amount he saved)

Q2. $7.20
12 x 8 = 96
20 − 12 = 8 (rem b)
8 x 6 = 48 (price of 6b)
96 + 48 = 144 (total price)
144 ÷ 20 = 7.20 (average price)

Q3. SEE PICTURE
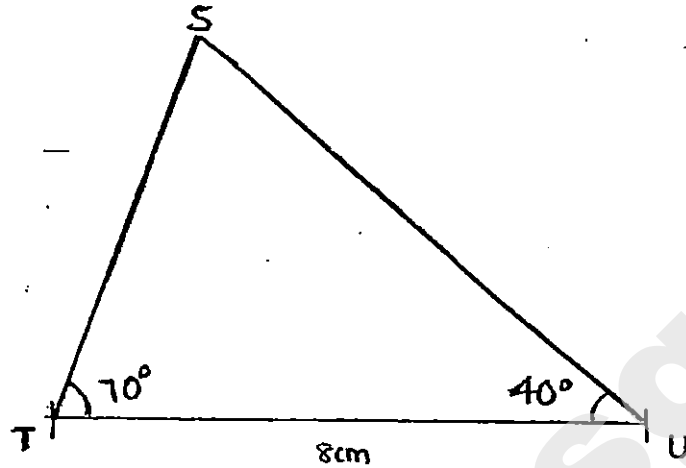
Q4. 11 litre 875ml
25 x25x25=15 625 (total capacity)
25 x 25 x 6 = 3750 (drained out)
15675 -3750=11875 (left)
11875cm³ = 11 875ml
11875ml = 11 litre 875ml

Q5. 1:14
A ➔ S:US: TOTAL , 1:11:12
B➔ S:US : TOTAL , 1:3:4
Unshaded area ➔1u
Unshaded area ➔11u +3u = 14u
S:US ➔1:14

Q6. 5632cm³ 64÷4=16, V 16x16x22=5632

Q7. 223
475 – 55= 420 (5u)
5u ➔420
1u ➔420÷5=84
2u ➔84 x 2 = 168
168 + 55=223 (m)

Q8. 302.5cm²
1u+2u=3u (total units)
3u ➔33
1u➔ 33÷3=11 (DG)
2u ➔11 x 2 = 22 (GC)
A➔½ x 11 x 30 = 165 (including c)
B➔ ½ x 11 x 30 = 165 (including c)
C ➔½ x 11 x 5 = 27.5
165 +165=330 (A+B)
330 – 27.5 = 302.5 (total shaded)

Now → E:A:Diff, 1,3.2, 3.9.6
10 year's ago → E:A:Diff 1:7:6
(E) → 3u – 1u =2u, (A) 9u -7u = 2u
2u → 10, 1u 10÷2=5
3u → 5 x 3 = 15

Q10. $5600
75% - 60% = 15% (diff btw saved)
15% → $840
5% → 840 ÷ 3 =280
100% 280 x 20 = 5600 (monthly income)

Q11. 220
¼ of 1 = ⅔ of Y
¾ of 1 = $\frac{6}{3}$ of Y
¾ of 1 + ⅓ of Y = 385
$\frac{6}{3}$ of Y + ⅓ of Y 385
$\frac{7}{3}$ of Y 385
⅓ of Y 385 ÷7 = 55
⅔ of Y 55 x 2 = 110
110 x 2 = 220 (total given away)

Q12a. 160
4u – 3u = 1u (difference between A and C)
1u → 8 , 20u → 8 x 20 = 160 (total books donated)

Q12b. 16
7u – 3u = 4u (difference between D and C)
4u → 8 x 4 = 32
32 ÷ 2 = 16 (D must give C)

Q13a. $45
2C → 2 x 1u= 2u
1B → 1u +25
4S → (1u +412) x 4 = 4u +48
2u +1u +25+4u+48=213
7u +73=213
7u 213-73 = 140
1u → 140 ÷ 7 = 20 —
20 + 25 = 45

Q13b. $243
20÷2=10 (HP of 1C)
10 x 3=30 (HP of 3c)
213 +30=243

Q14. 4.5cm
17x3=51 (total length of wire used)
5x4=20 (total perimeter of S)
6x3=18 (total perimeter of ET)
51-20-18=13 (Total perimeter of IT)
13 -4 =9 (2 sides)
2 sides➔ 9, 1 side ➔9÷2=4.5

Q15a. $350
100%➔ 280 (ML)
25%➔ 280 ÷ 4 = 70
125% ➔70 x 5 = 350 (MT)

Q15b. 30%
100% - 12% = 88%
Mr Lim ➔88% x $2.80 = $246.40
Mr Tan➔ $246.40-$1.40=$245
Tan's original sale➔ $350
$350➔ 100%, $\frac{105}{350}$ x 100% = 30%

Q16a. $\frac{9}{20}$
⅖ x ¾ = $\frac{3}{10}$ (50¢ coins)
⅗ x ¾ = $\frac{9}{20}$ ($1 coins)

Q16b. 240
Value of 1 set ➔ (5x0.20) + (6 x 0.50) + (9x$1)= 1+3+9= $13
$156 ÷ $13 = 12 sets
total ➔20u of coins
total no. of coins➔ 12 x 20 = 240

Q17a. 14
82 ÷ 41 = 2
2 + 1 = 3
3n + 1 = 82, n = 27, 41 – 27 = 14

Q17b. 23
41 – 14 = 27, 2u + 1u = 3u , 3u 27, 1u 9
total➔ 14 + 9=23

Q18a. 16 4 + 12 = 16

Q18b. 225
(Rectangles) 15 x 15 = 225

Q18c. 108 stars
$\sqrt{729}$ = 27, 27 x 4 = 108

THE END

SINGAPORE CHINESE GIRLS' SCHOOL

SECOND SEMESTRAL ASSESSMENT 2015

PRIMARY 5

MATHEMATICS
PAPER 1

BOOKLET A

Name : _____ ( )

Class : Primary 5 SY

		Marks attained	Max Mark	Parent's Signature
Paper 1	Booklet A		**20**	
	Booklet B		**20**	
Paper 2			**60**	
Total Marks			**100**	

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

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. 701 936 is 50 000 less than _____.

   (1) 651 936

   (2) 696 936

   (3) 706 936

   (4) 751 936

2. Which of the following numbers when rounded off to the nearest
   thousand is 170 000?

   (1) 169 499

   (2) 169 501

   (3) 170 549

   (4) 170 905

3. 40% of a number is 50. What is the number?

   (1) 20

   (2) 25

   (3) 100

   (4) 125

4. In the figure below, ABCD is a square. Point E is the midpoint of AC.
   What fraction of the square is shaded?

   (1) $\dfrac{1}{6}$

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

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

   (4) $\dfrac{1}{4}$
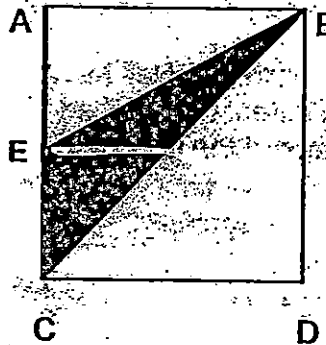
5. $72 \div 1000 =$ _____

    (1) 0.072

    (2) 0.720

    (3) 7200

    (4) 72 000

6. John lost 30 marks in an English test. He scored 90 marks. What percentage did he score for the test?

    (1) 20%

    (2) 25%

    (3) 75%

    (4) 80%

7. Mrs Li mixed butter and sugar to make a butter cake. $\frac{4}{5}$ of this mixture consists of butter. She used 500 g of butter. How much sugar did she use?

    (1) 100 g

    (2) 125 g

    (3) 600 g

    (4) 625 g

8. The ratio of the length of a rectangle to its breadth is 7:3. The length is 21cm. What is the perimeter of the rectangle?

    (1) 30 cm

    (2) 60 cm

    (3) 300 cm

    (4) 600 cm

9. Alan took the train from City Hall MRT station to Changi Airport. The journey took 27 minutes. He reached Changi Airport at 10.23 a.m. What time did he board the train at City Hall?

    (1) 9.27 a.m.

    (2) 9.56 a.m.

    (3) 10.04 a.m.

    (4) 10.50 a.m.

10. The triangle below is not drawn to scale. D is the mid-point of AB.
AD = 5 cm, ~~BC = 8 cm, AE = 10 cm and DC = 8 cm.~~ Find the area of the triangle ABC.
DC = 8cm
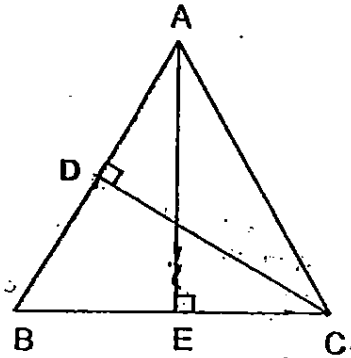
    (1) 16 cm^2

    (2) 20 cm^2

    (3) 32 cm^2

    (4) 40 cm^2

11. Find the value of $5 \times 4 - (9 + 2) + 6 \div 3$

    (1) 5

    (2) 7

    (3) 11

    (4) 15

12. There were 600 more boys than girls in a school. 60% of the pupils were boys. How many girls were there in the school?

    (1) 400

    (2) 1200

    (3) 1800

    (4) 3000

3

13. The ratio of Mrs Toh's age to Molly's age is 17 : 5 now. Mrs Toh is 24 years older than Molly.
Find the ratio of Mrs Toh's age to Molly's age 4 years ago.

    (1) 3 : 1
    (2) 4 : 1
    (3) 5 : 1
    (4) 19 : 7

14. The figure below is not drawn to scale. ABCD and PQRS are 2 overlapping squares.
$\angle SRC = 60°$. Find $\angle QRB$.

    (1) 30°
    (2) 60°
    (3) 90°
    (4) 150°
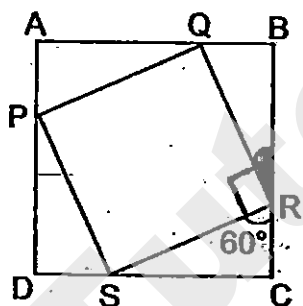
15. Study the graph below.
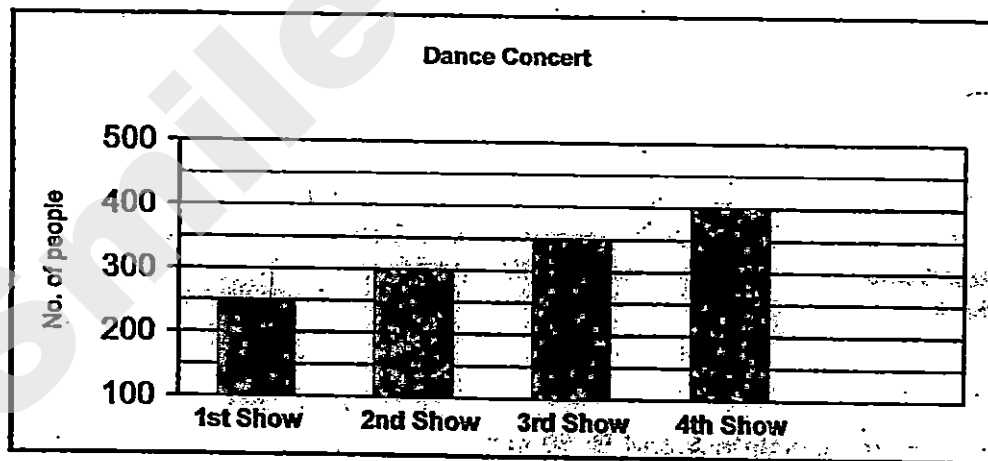
What is the average number of people who attended the 3rd and 4th shows of the Dance Concert?

    (1) 275
    (2) 325
    (3) 375
    (4) 750

— End of booklet A —

SINGAPORE CHINESE GIRLS' SCHOOL

SECOND SEMESTRAL ASSESSMENT 2015

PRIMARY 5

MATHEMATICS
PAPER 1

BOOKLET B

Name : _____

Class : Primary 5

Paper 1	Mark attained	Max Mark
Booklet B		20

15 Questions
20 Marks

Total Time for Booklets A and B: 50 min

INSTRUCTIONS TO CANDIDATES

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

Name:_____(   )   **Class: P5**

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. Which of the following has the largest value?

$$0.71, \quad \frac{3}{7}, \quad 0.707$$

Ans:_____

17. How many tenths are there in 3.8?

Ans:_____

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

Ans:_____

19. In 18 : 48 = 27 : _____ , what is the missing number?

Ans:_____

/4
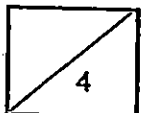
20. 1 kg 80 g = _____ kg

Ans: _____ kg

21 What is the area of the shaded triangle ABD?
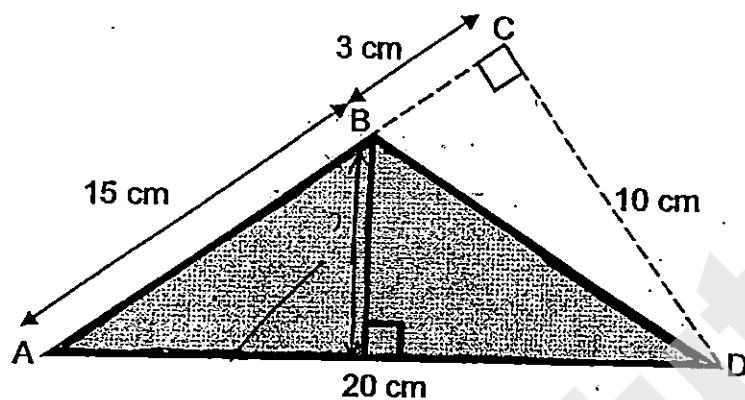
Ans: _____ cm²

22. Arrange these numbers to form the smallest 5-digit even number.

| 3 | 4 | 2 | 7 | 1 |

Ans: _____

23. A tank, measuring 50 cm long, 10 cm wide and 15 cm high, was $\frac{2}{5}$ filled with water. How much more water is needed to fill the tank to its brim?

Ans: _____ cm³

44
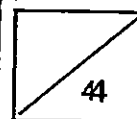
24. The figure below is not drawn to scale.
AC is a straight line.
Find ∠ABE.
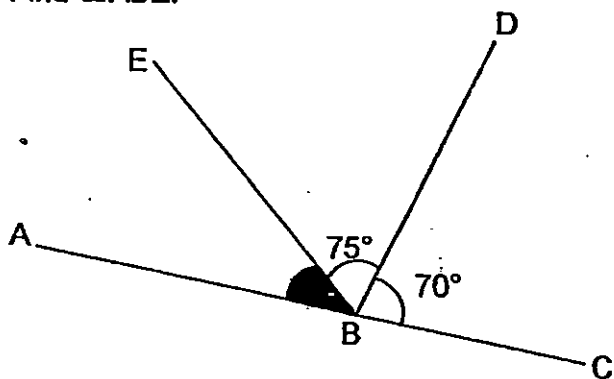
Ans: _____ °

25. The line graph below shows the growth of a plant in weeks.
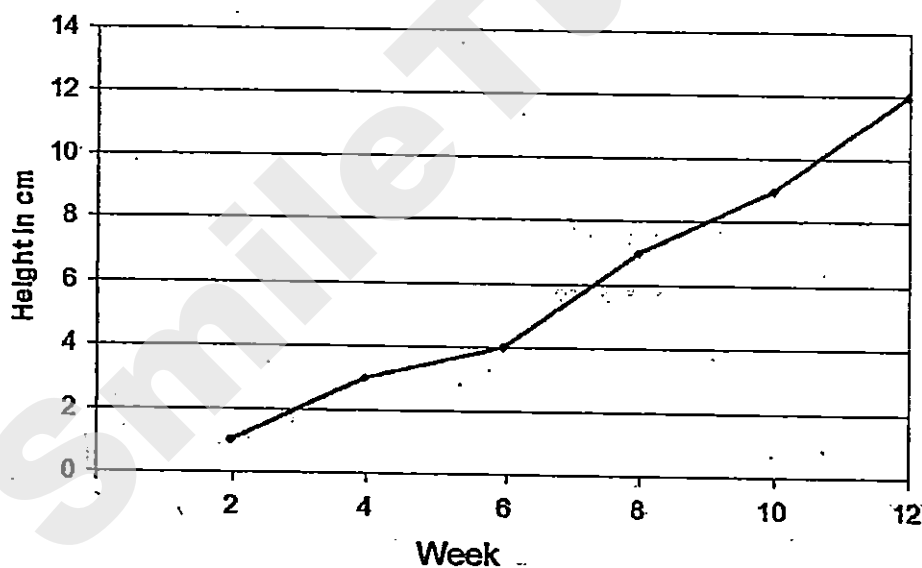
During which period was the plant's growth the slowest?

Ans: Between Week___ to Week___
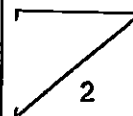
7

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

26. Molly, Nathan and Oliver sold booklets of tickets for the school fun fair. Molly and Nathan sold a total of 50 booklets. Nathan and Oliver sold a total of 20 booklets. Molly sold three times as many booklets as Oliver. How many booklets did Oliver sell?

Ans: _____

27. Mr Toh sold $\frac{1}{3}$ of his rice on Monday, $\frac{2}{5}$ kg on Tuesday and had 16 kg left. How much rice did he have at first?

Ans: _____kg

4
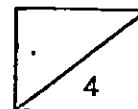
28.   · What is the maximum number of 2-cm cubes that can be placed into the
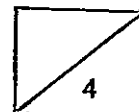container shown below?

8 cm

5 cm

9 cm
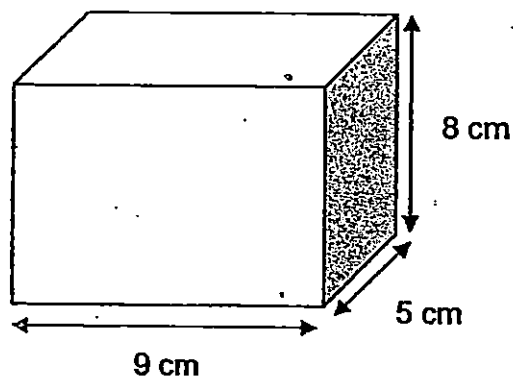
Ans; _____

29.   The figure below is not drawn to scale. AB and CD are straight lines.
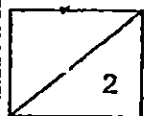Find ∠k.

B

C

k

30°   15°

D

A

Ans: _____ °

4
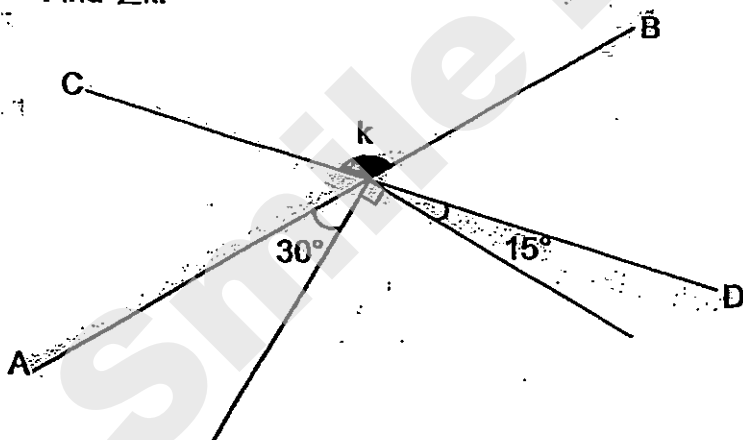
30. Kelly spent $\frac{7}{10}$ of her money on 15 kiwis and 5 apples.

A kiwi costs twice as much as an apple, how many apples can Kelly buy with the rest of her money?

Ans: _____

2

SINGAPORE CHINESE GIRLS' SCHOOL

SECOND SEMESTRAL ASSESSMENT 2015

PRIMARY 5

MATHEMATICS

PAPER 2

Name : _____ (   )

Class : Primary 5

Paper 2	Mark	Max Mark	Parent's Signature
		60	

18 Questions
60 Marks

Total Time For Paper 2: 1 h 40 min

INSTRUCTIONS TO CANDIDATES
Do not open this booklet until you are told to do so.
Follow all instructions carefully.
Answer all questions.

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.
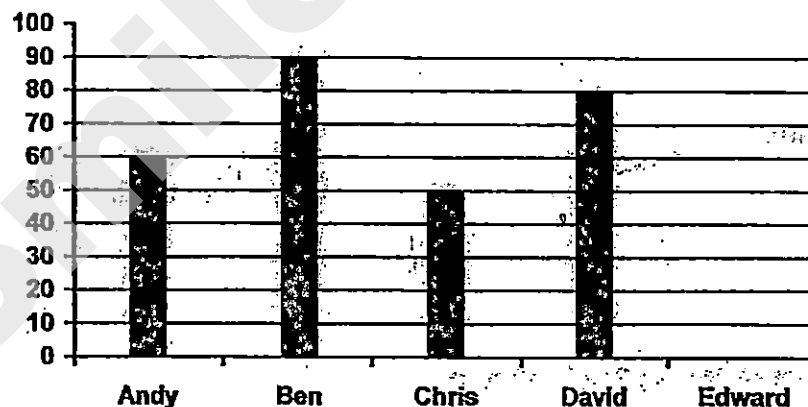
(10 marks)

1. The advertisement below shows a promotion offered by Hotel Loyal during the December holidays.

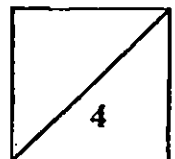| Hotel Loyal |
| --- |
| Stay one night $260 |
| Stay 3 nights, 1 night free |

Mr Tan and his family stayed 5 nights in the hotel.
How much did they pay?

Ans: $_____

2. The graph below shows the amount of money 5 boys saved in a week but the amount of money Edward saved was not drawn in.

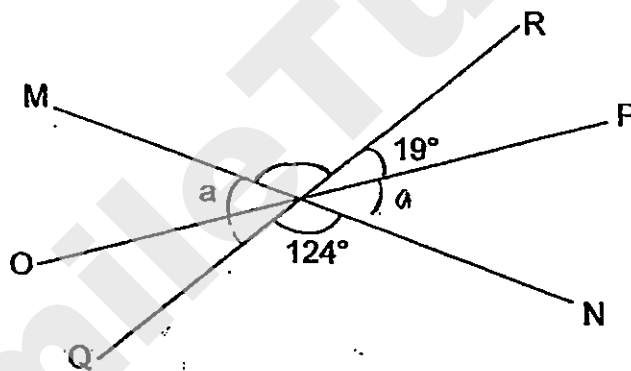The average amount saved was $60.
How much did Edward save?

Ans: $_____

4

3. Mrs Toh had 120 apples and 150 oranges. She sold $\frac{1}{4}$ of the apples

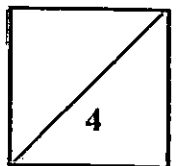   and $\frac{1}{5}$ of the oranges. How many fruits were left?
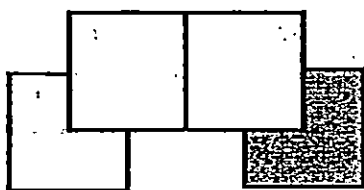
    Ans: _____

4. The figure below is not drawn to scale. MN, OP and QR are straight
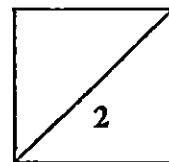   lines. Find ∠ a.

    Ans: _____

4

5.   Four square cards are arranged as shown in the figure below.

Each card overlaps another card by $\frac{1}{4}$ of its area.

What percentage of the figure is shaded?
(Round off your answer to 1 decimal place).

Ans: _____ 0 _____ %

2

3

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.
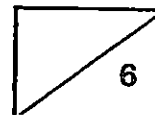
Do not write this column

(50 marks)

6. The ratio of the number of pupils in Class A to the number of pupils in Class B was 4 : 9. The number of pupils in Class B is thrice the number of pupils in Class C. There were 9 pupils more in Class A than in Class C. How many pupils were there in the 3 classes?

Ans: _____ [3]

7. A basin was $\frac{1}{4}$ filled with water. When 350 ml of water was added, it became $\frac{3}{5}$ full. What was the capacity of the basin? (Give your answer in ml)
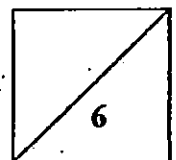
Ans: _____ [3]

6

8. Alan had $16 more than Bob. After Bob had given Alan $7, Alan had thrice as much as Bob. How much did Alan have at first?

Ans: _____ [3]

9. The average number of pupils in School A, B, and C was 800. There were 200 more pupils in School A than in School B. The number of pupils in School C was twice as many as the number of pupils in School A. How many pupils were there in School B?
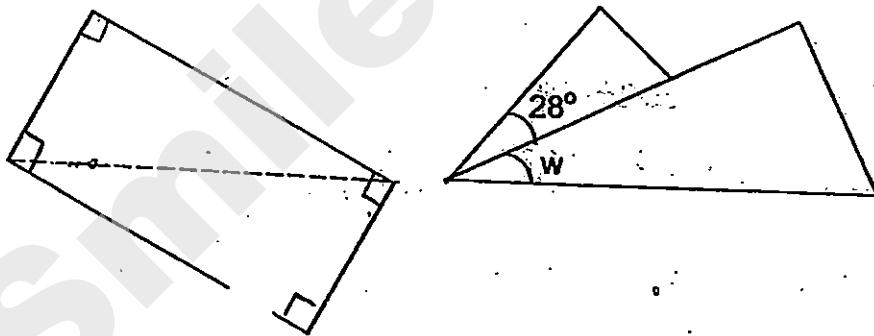
Ans: _____ [3]

6

10. **a)** Sally is facing East at first. She makes a $\frac{3}{4}$ clockwise turn and then another 225° anti-clockwise turn. Where will she be facing at last?
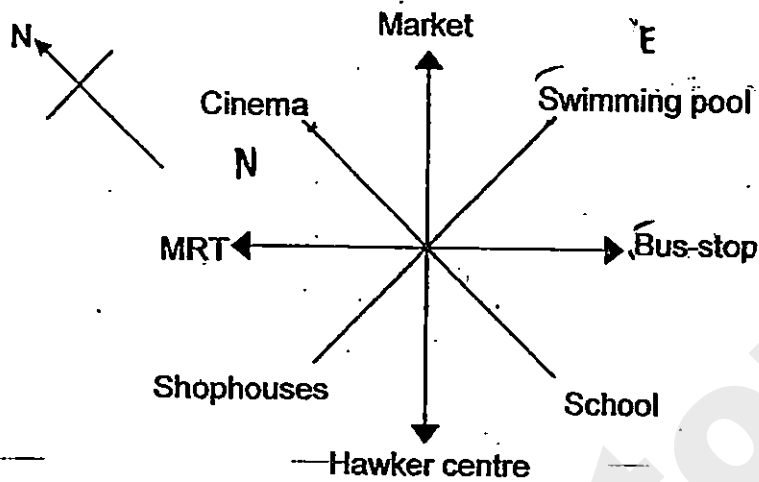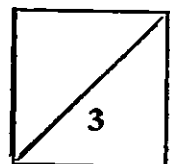
b) A rectangular piece of paper is folded along the dotted line as shown below. Find ∠w.

28°

W

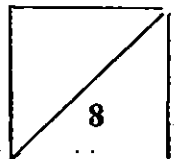Ans: a)_____ [1]

b)_____ [2]

3

6

11. $\frac{3}{4}$ of Cindy's money is equal to $\frac{1}{2}$ of Annie's money. $\frac{3}{10}$ of Cindy's

money is equal to $\frac{2}{5}$ of Rita's money.

If Annie had $48 more than Rita, how much money did the 3 girls have
altogether?

_____ [4]

12. Andrea sold some mangoes at $3 each and some pineapples at $7

each. A total of 61 fruits were sold. She collected $327 from the sale of

the fruits. How many mangoes did she sell?

Ans: _____ [4]

8

13 Sam had 88 more muffins than Julia. He gave 20% of his muffins to Julia. He then had twice as many muffins as Julia.
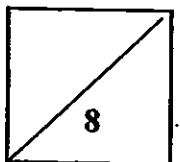How many muffins did Sam have at first?

Ans: _____ [4]

14. 58% of the fruits in a box were apples. $\frac{5}{6}$ of the remainder were pears and the rest were peaches. There were 140 more pears than peaches. How many fruits were there in the box?

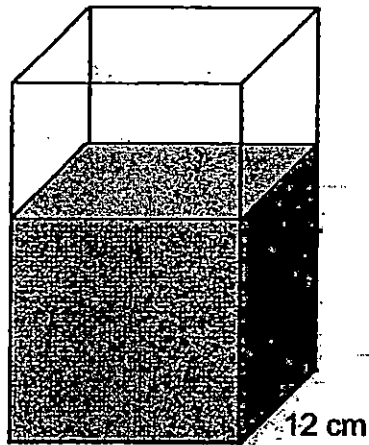Ans: _____ [4]

8

15. Tank A contained some water and Tank B was empty. Some of the water was poured from Tank A to Tank B. 600 ml of the water was spilt. The height of the water level in Tank A became 10 cm. The height of the water level in Tank B became 12 cm.

What was the height of the water level in Tank A at first?

12 cm

40 cm

Tank A
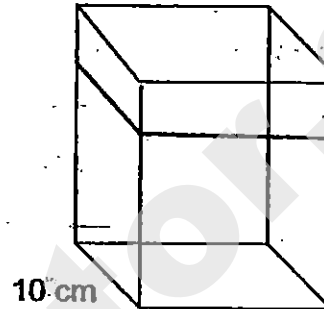
10 cm

30 cm

Tank B (empty)

Ans: _____ [4]

4
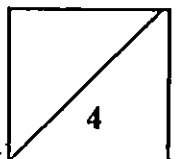
16. Mr Toh wants to make 25 small bows and 22 big bows. The length of ribbon used to make 6 big bows is the same 8 small bows. He managed to make 10 big bows and 16 small bows with 1320 cm of ribbon.

(a) How many small bows can he make with the same length of ribbon needed to make 12 big bows?

(b) What is the length of ~~wire~~ needed to make the remaining bows?

Ans: (a) _____ [1]

(b) _____ [4]

5
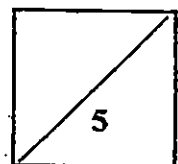
17. All the tickets for a concert were sold out. For every 9 tickets of Category A sold, 5 tickets and 3 tickets were also sold for Categories B and C respectively. The difference in the amount collected from the sale of tickets between Categories B and C was $6900.

How many people attended the concert?

Category	Cost
A	$88
B	$128
C	$198

Ans: _____ [5]

5
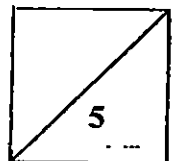
18. The figure below was formed by 9 identical right-angled triangles. The perimeter of the figure was 72 cm. The shortest side of each triangle, AB, was 6 cm.

a) Find the perimeter of each triangle.

b) The longest side of the each triangle is 4 cm shorter than the sum of the other 2 sides.

Find the area of the figure.

. A

6 cm
B
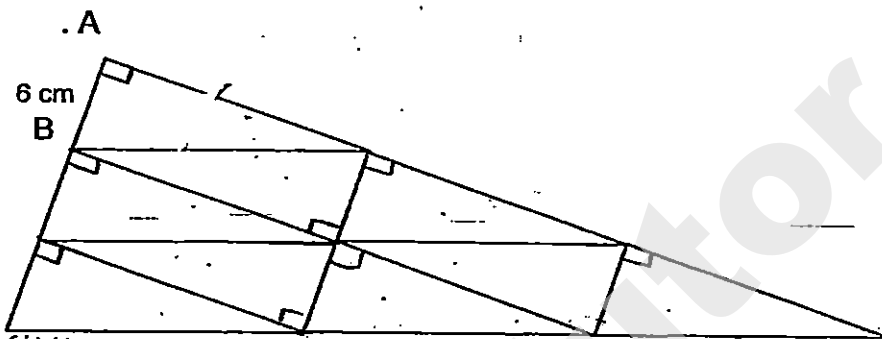
Ans: a) _____ [2]

       b) _____ [3]

End of Paper
- Check your work thoroughly -

5

12

SCHOOL   : SINGAPOR CHINESE GIRLS' SCHOOL
SUBJECT : MATHEMATICS
TERM   : SA1

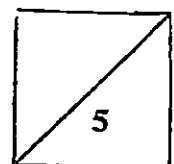| Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	2	4	4	1	3	2	2	2	4
Q11	Q12	Q13	Q14	Q15					
3	2	3	1	3					

Q16. 0.71   Q17. 38   Q18. 0.05   Q19. 72

Q20. 1.080kg   Q21 75cm–(15cm x 10cm)÷ 2 = 75cm²

Q22. 1 2 3 7 4

Q23 4500cm³➔ 7500cm³ ÷ 5 = 1500cm³, 1500cm³ x 3 = 4500cm³

Q24. 35° ➔∠ABE 180 – 75 – 70 = 35

Q25. Between week 4 to week 6

Q26. 15U ➔50 -20=30, 1u- 30÷ 2 = 15

Q27. 24.6kg
⅖kg + 16kg = 16⅖kg = 16 : 4
2u ➔16.4kg
1u➔ 16.4kg ÷2=8.2kg
3u➔8.2kg x 3 = 24.6kg

Q28. 32 ➔Maximum 4 x 2 x 4 = 32

Q29. 135°➔ ∠k 30 + 90 + 15 = 135

Q30. 15
15k & 5a ➔30k
7u ➔35
1u➔35÷7=5
3u ➔5 x 3 =15

Q1. $1040 ➔5 nights but paid for 4 nights only – 4 x $260 = $1040

Q2. $20
Total 5 x $60 = $300
Edward $300 ➔ 460 - $90 - $50 - $80 = $20

Q3. 210 Fruits left ¾ x 120 +⅘x 150 = 90 + 120 = 210

Q4. 37°∠A 180 – 124 – 19 = 37°

Total units – 14
Shaded units – 3
% shaded – $\frac{3}{14}$ x 100% ≈212.4%

Q6. 144
1u – 9
16u – 9 x 16 = 144

Q7. 1000ml
At first – ¼ = $\frac{5}{20}$
In the end – ⅗ = $\frac{12}{20}$
Difference – $\frac{15}{20} - \frac{5}{20} = \frac{7}{20}$
$\frac{7}{20}$ – 350ml
$\frac{1}{20} - \frac{350}{7} = 50ml$
$\frac{20}{20} - 20 \ x \ 50 = 1000ml$

Q8. $38
2u➜ $7 +$16+$7 = 430
1u➜ $30÷2 = $15
Alan at first ➜$15 +$7+$16=$38

Q9. 450
4u➜2400 – 200 x 3 =2400-600=1800
1u➜1800÷4 = 450

Q10a. Bus stop

Q10b. 31° ➜2w 90 – 28 = 62, W $\frac{62}{2}$ = 31°

Q11. $208
15u➜ $48
1u➜ $\frac{48}{15}$ = $3.20
65u➜ 65 x $3.20 = $208

Q12. 25
If all fruits were pineapples
Cost of 61 pineapples➜ 61 x $7 = $427
Total difference – $427 – 4327 = $100
Each difference➜ $7 -$3=$4
No. of mangoes – $\frac{100}{4}$ = 25

Q13. 110

$4u \rightarrow 88$

$1u \rightarrow \frac{88}{4} = 22$

$5u \rightarrow 5 \times 22 = 110$

Q14. 500

Apple $\rightarrow$ 58%

Remainder $\rightarrow$ 100% - 58% = 42%

Pears $\rightarrow \frac{5}{6} \times 42\% = 35\%$

Peaches $\rightarrow \frac{1}{6} \times 42\% = 7\%$

Difference $\rightarrow$ 35% - 7% = 28%

28% $\rightarrow$ 140

1% $\rightarrow \frac{140}{28} = 5$

100 $\rightarrow$ 5 x 100 = 500

Q15. 18.75cm

Volume of water in B in the end $\rightarrow$ 30cm x 10cm x 12cm = 3600cm³

Volume of water poured out $\rightarrow$ 3600cm³ + 1600cm³ = 4200cm³

Height of water (poured out from A) $\rightarrow \frac{4200cm}{40cm \times 12cm} = 8.75cm$

Height of A at first $\rightarrow$ 10cm + 8.75cm = 18.75cm

Q16a. 16   **Q16b.** 1125cm

8 small bows $\rightarrow$ 6 big bows

16 small bows $\rightarrow$ 12 big bows

22 big bows $\rightarrow$ 1320cm

1 big bow $\rightarrow \frac{1320cm}{22} = 60cm$

10 big bows $\rightarrow$ 60cm x 10 = 60cm

16 small bows $\rightarrow$ 1320cm – 600cm = 720cm

1 small bow $\rightarrow \frac{720}{16} = 45cm$

12 big and 9 small bows $\rightarrow$ 60cm x 12 + 45cm x 9 = 720cm + 405cm = 1125cm

---

Q17. 2550

5B tickets $\rightarrow$ 5 x $128 = $640

3c tickets $\rightarrow$ 3 x $198 = $594

Difference in 1 set - $640 - $594 = $46

No. of sets $\rightarrow \frac{6900}{46} = 150$

No. of people $\rightarrow$ 150 x 17 = 2550

Q18a. 24cm
3 sets of perimeter → 72cm
1 set of perimeter → $\frac{72}{3} = 24cm$

Q18b. 216cm²
2u → 24cm – 6cm – 2cm = 16cm
1u → $\frac{16}{2}cm = 8cm$
1 triangle = ½ x 6cm x 8cm = 24cm²
9 triangles → 9 x 24cm² = 216cm²

PRIMARY 5 END-OF-YEAR EXAMINATION 2015

Name : _____ ( )   Date: 29 October 2015

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)

20

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. What is the value of the digit 7 in 8 763 015 ?

   (1)   7 000
   (2)   70 000
   (3)   700 000
   (4)   7 000 000

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

   (1)   9
   (2)   10
   (3)   3
   (4)   11

3. Round off 987 564 to the nearest ten thousands.

   (1)   980 000
   (2)   987 000
   (3)   990 000
   (4)   997 000

4. Express 1.5 as a percentage.

   (1) 0.15%
   (2) 1.5%
   (3) 15%
   (4) 150%

5. What is the area of triangle ABC as shown in the figure?

   (1)   6 cm²
   (2) 12 cm²
   (3) 18 cm²
   (4) 36 cm²
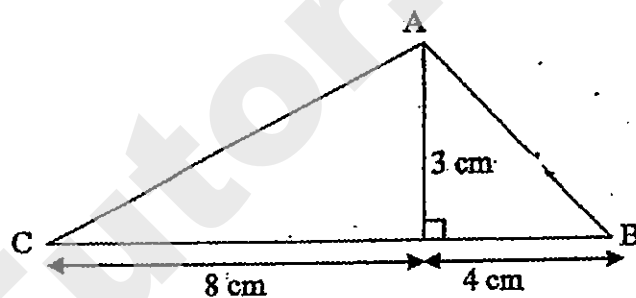
6. Which of the following is closest to 1.6?

   (1) 1.590
   (2) 1.601
   (3) 1.609
   (4) 1.700

7. Find the value of $\dfrac{3}{4} + \dfrac{1}{2} - \dfrac{5}{6}$.

   (1) $\dfrac{4}{5}$

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

   (3) $\dfrac{5}{4}$

   (4) $\dfrac{3}{2}$

8. Which of the following is the same as 10 kg 18 g?

   (1) 1.018 kg

   (2) 1.18 kg

   (3) 10.018 kg

   (4) 10.18 kg

9. In a group of 125 people, 30 are children and the rest are adults. What percentage of the people are adults?

   (1) 76%

   (2) 95%

   (3) 24%

   (4) 30%

3

10. A basket contains 24 ripe and unripe mangoes. Which one of the following **can** be the ratio of the number of ripe mangoes to the number of unripe mangoes?

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

11. The ratio of the number of apples to the number of pears is 2 : 5. The ratio of the number of pears to the total number of oranges is 3 : 2. There are 48 oranges. How many apples are there?
   apples   oranges

   (1) 6
   (2) 36
   (3) 48
   (4) 80

12. Study the number pattern below. What is the missing number?

   2 500 , 2 600 , 2 800 , 3 200 , _____ , 5 600

   (1) 3 600
   (2) 3 800
   (3) 4 000
   (4) 4 400

13. Kelly is 6 years old now. Her mother is 30 years older than her. In how many years' time will Kelly's mother be four times as old as Kelly?

   (1)   10
   (2)   2
   (3)   3
   (4)   4

14. Mrs Tan wants to use the recipe below to make muffins.

   > **Muffin Recipe**
   > **(makes 6 muffins)**
   > 200 g flour
   > 150 g butter
   > 100 g sugar

   She has 1 kg of flour, 300 g of butter and 600 g of sugar.
   What is the **maximum** number of muffins she can make?

   (1)   12
   (2)   18
   (3)   30
   (4)   36

15. Pamela can type 2400 words in one hour. How many words can she type in one minute?

   (1)   40
   (2)   30
   (3)   24
   (4)   4

PRIMARY 5 END-OF-YEAR EXAMINATION 2015

Name : _____ (.)   Date: 29 October 2015

Class : Primary 5 (   )   Time: 8.00 a.m. - 8.50 a.m.

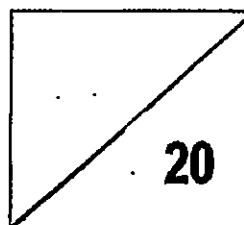Parent's Signature : _____

Paper 1 comprises 2 booklets, A and B.

MATHEMATICS

PAPER 1

(BOOKLET B)

20

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. Find the value of 3.14×70.

Ans: _____

17. Tim runs for 25 minutes every day. How many hours and minutes does he run in 30 days?
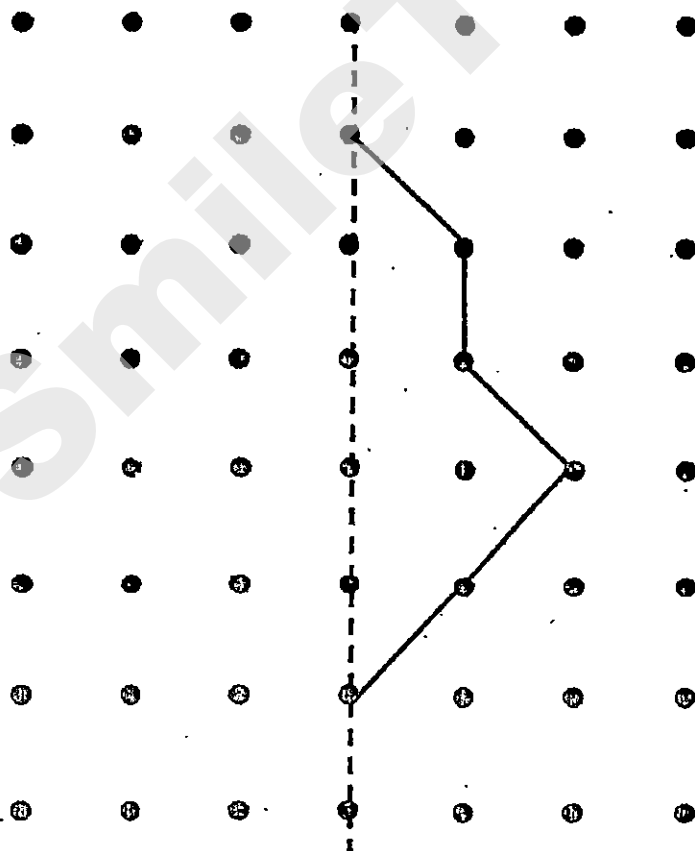
Ans: _____ h _____ min

18. Find the value of $7\frac{1}{5} - 2\frac{3}{10}$.

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

Ans: _____

19. Complete the symmetrical figure below.

20. How many more circles must be shaded so that 75% of all the circles are shaded?
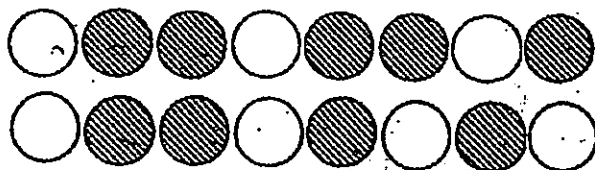
Ans: _____

21. Find the sum of the 15 tenths and 83 hundredths.

Ans: _____

22. Mr Chew planted 10 seedlings in a row. The seedlings were planted at the same distance apart. The distance between the first and sixth seedlings was 30 cm. What was the distance between the first and tenth seedlings?

Ans: _____ cm

23. The figure below is made up of squares.

Shade one more square so that the figure has a line of symmetry.
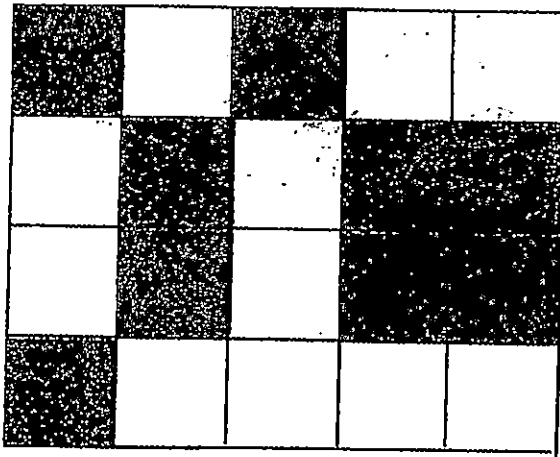
24. The weight of 3 boxes A, B and C are 5.6 kg, 7.1 kg and 6.6 kg respectively.
Which box has its weight closest to the average weight?

Ans: Box _____

25. Betty used the letters in her name B, E, T and Y to form a pattern as shown below. Which letter is in the 67th position?

B E T T Y B E T T Y B E T T Y B E ....?

1st 17th 67th

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. There are 24 people in the dance studio. 12 of them are wearing shoes and 8 of them are wearing socks. 6 of them are wearing both. How many people are barefooted?

Ans: _____

27. Study the series of even numbers.

What is the sum of the first 30 even numbers?

$$2 \, , \, 4 \, , \, 6 \, , \, 8 \, , \, 10 \, , \, 12 \, , \, \dots \dots \dots$$

1st   30th

Ans: _____

28. Jack, Keith and Leon shared some trading cards in the ratio of 2 : 4 : 3 respectively. Jack gave $\frac{1}{3}$ of his share to Leon. Find the ratio of Jack's trading cards to Keith's trading cards to Leon's trading cards.

Ans: _____

29. The figure is made up of a square and a shaded triangle. The triangle has an area of 50 cm². Find the perimeter of the square.

Ans: _____ cm

30. The table below shows the number of ceiling fans per flat in a housing estate.

Number of ceiling fans per flat	0	1	2	3
Number of flats	6	30	26	13

How many flats have at least 2 ceiling fans?

Ans: _____

_____

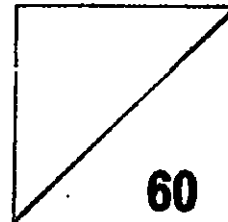-End of Paper-

PRIMARY 5 END-OF-YEAR EXAMINATION 2015

Name _____ ( ) Date: **29 October 2015**

Class : Primary 5 ( )

Time: **10.00 a.m. – 11.40 a.m.**

Parent's Signature : _____

MATHEMATICS

PAPER 2

60

INSTRUCTIONS TO CANDIDATE

1. Write your name, class and register no.

2. Do not turn over this page until you are told to do so.

3. Follow all instructions carefully.

4. Answer all questions.

5. Show your working clearly as marks are awarded for correct working.

6. You are allowed to use a calculator.

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. Pam had an allowance of $60. She spent 40% of it and saved the rest. How much did she save?

Ans: $ _____

2. Last year, there were 400 members in a club. This year, the membership has increased by 100. Find the percentage increase in the membership.

Ans: _____

3. The mass of a packet of flour is 500 g. Sheila needs 10.05 kg of flour to bake some cookies. What is the minimum number of packets of flour she will need?

Ans: _____

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4. The carpark rates at XYZ Shopping Mall is as follows:

For every 1st hour	$3
Additional ½ hour or part thereof	$1.50

How much does Mr Chan have to pay when he parks his car from 9 a.m. to 11.45 a.m.?

Ans: _____

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5.   The table below shows the number of candidates taking Grade 1 to Grade 4 of the ballet examination. $\frac{5}{6}$ of the candidates passed the examination. How many candidates passed the Grade 4 examination?

| Grade	1	2	3	4
Number of candidates taking the examination	28	23	14	7
Number of candidates who passed the examination	27	21	10	?

Ans: _____

3

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. Calvin and Dan started saving on the same day. Each day, Calvin saved 50¢ and Dan saved 20¢. How much would Calvin have saved if Dan saved $18 less than Calvin?

Ans: _____ [3]

7. ABCD is a rectangle 20 cm by 15 cm. DE is 8.5 cm. Find the shaded area ABCE.

A   20 cm   B

15 cm

D   E   C
   8.5 cm
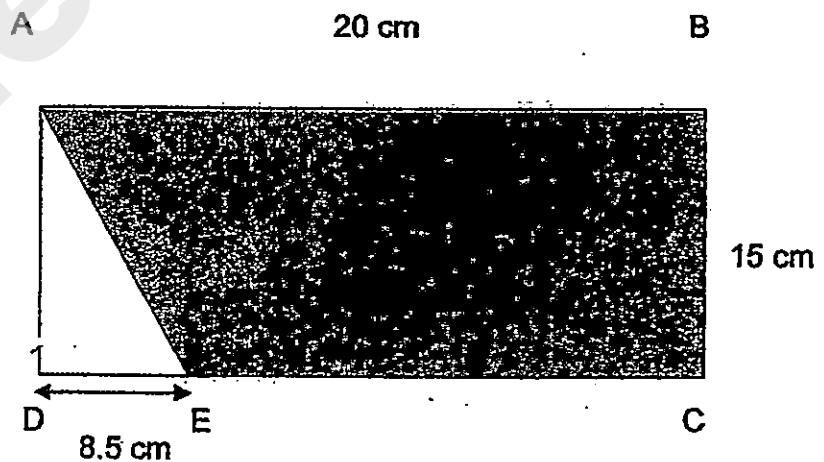
Ans: _____ [3]

8. Alicia and Beatrice have some postcards in the ratio 6 : 7. Alicia gave half of her postcards to Beatrice. Beatrice then had 742 postcards more than Alicia. How many postcards did they have altogether?

Ans: _____ [3]

9. The books in a library were placed on 50 shelves with an equal number of books on each shelf. Then 5 shelves were removed and the books on these shelves were placed on the remaining 45 shelves. As a result, the number of books on each of the remaining shelf increased by 7. What was the number of books on each shelf at first?

Ans: _____ [3]

10. A company sold a total of 368 Adult and Child tickets at the prices shown below and collected $2,760. How many Adult tickets did the company sell?

Tickets for Sale

1 Adult Ticket : $9
1 Child Ticket : $5
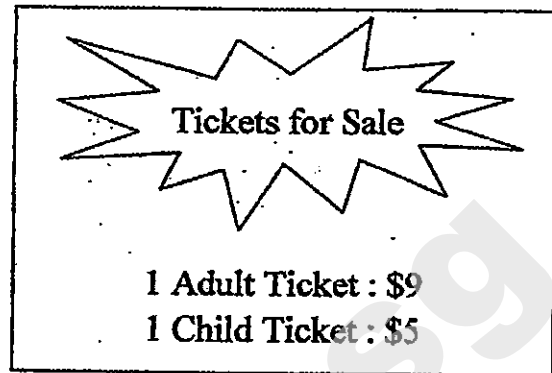
Ans: _____ [3]

---

11. A container filled with 30 identical big marbles weighs 1.1 kg. The same container when filled with 40 identical small marbles weighs 800g. The mass of two small marbles is the same as the mass of each big marble. What is the mass of the empty container? (Give your answer in grams)

Ans: _____ [3]

6

12. At a party, an equal number of chocolate and blueberry muffins were eaten.
$\frac{1}{3}$ of the chocolate muffins and $\frac{2}{7}$ of the blueberry muffins were left.

What fraction of the muffins were eaten?

Ans: _____ [4]

13. During a sale, Mrs Tai bought a refrigerator at a discount of 15%.

  She had to pay a GST of 7% on the sale price.

  a) How much was the GST?

  b) How much did she pay?

Usual Price $1800 (without GST)
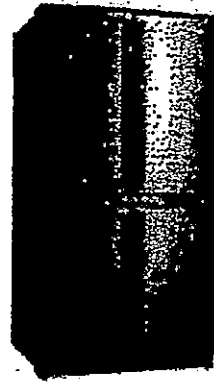
Ans: (a) _____ [3]

(b) _____ [1]

14. Jane has 8 times as many stamps as May. After Jane has given 25 stamps to May, she has thrice as many stamps as May. How many stamps do they have altogether?

Ans: _____ [4]

15. Mrs Lee sells one apple pie for $2. When a customer buys 3 apple pies, he can buy one more apple pie at half the price. What is the **greatest** number of apple pies that a customer can buy with $60?

Ans:_____ [5]

16. The graph below shows the number of cupcakes sold by ABC Bakery over a period of 6 months.
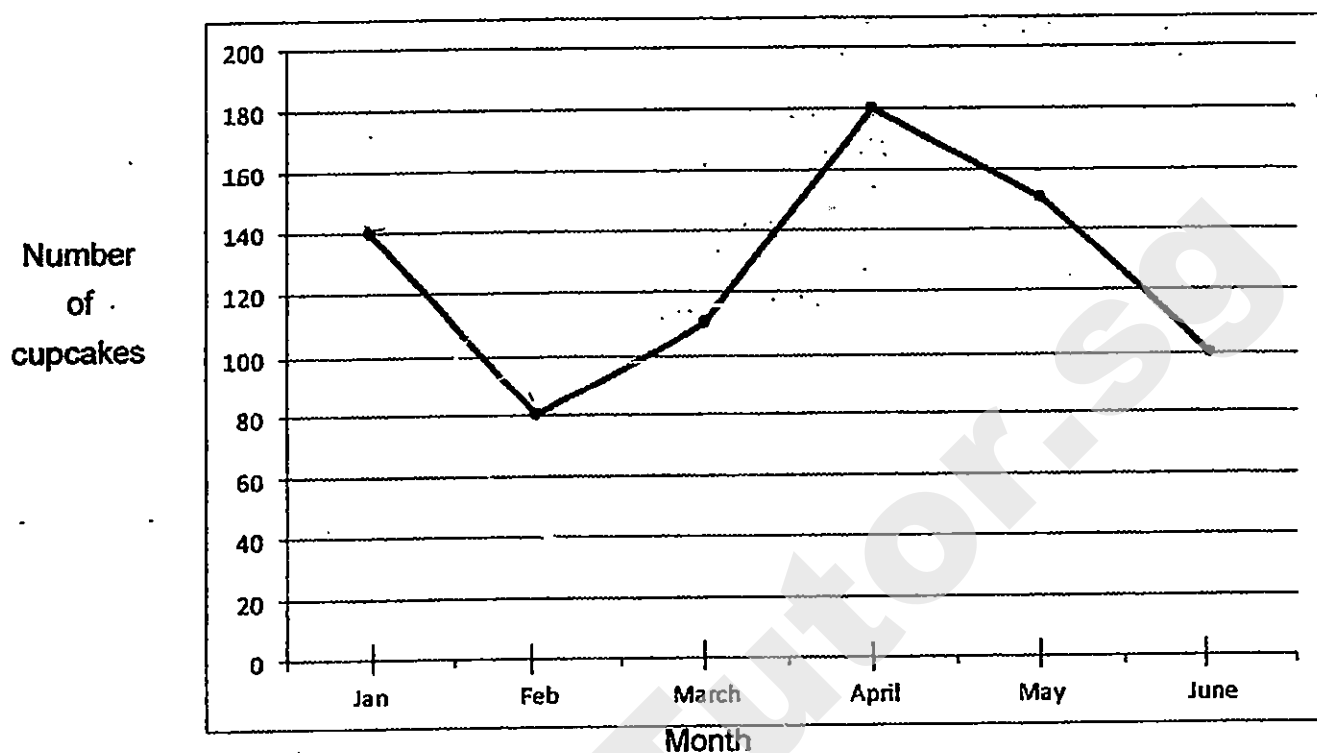
a) The greatest decrease in the number of cupcakes sold was from _____ to _____

b) Find the average number of cupcakes sold for the first 5 months.

c) The number of cupcakes sold in the month of July was $\frac{2}{5}$ the total number of cupcakes sold in April and June. The price of each cupcake was $2.50. How much was collected from the cupcakes sold in July?

Ans: (a) _____ [1]

(b) _____ [2]

(c) _____ [2]

11

17. Adam, Bob, Carl and David like to collect stickers. They have an average of 89 stickers. Adam has 78 stickers. Bob has half as many stickers as Carl. David has 16 stickers fewer than the total number of stickers that Bob and Carl have.

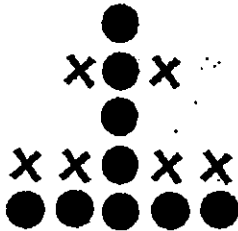(a) How many stickers does Bob have?

(b) How many stickers does David have?

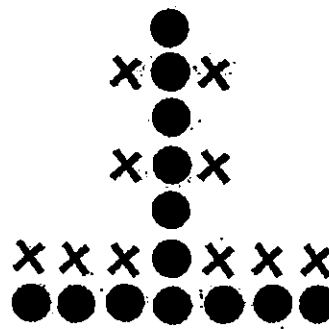Ans: a) _____ [3]

b) _____ [2]

18. Study the pattern carefully. Then answer the questions below.
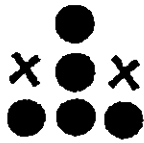
Pattern 1   Pattern 2   Pattern 3

(a) How many dots and how many crosses are there in Pattern 9?

(b) Which Pattern will have 281 dots?

Pattern	Number of Dots	Number of Crosses
1	5	2
2	9	6
3	13	10
4	17	14
.		
.		
.		
9	?	?

Ans: (a) _____ [2]

(b) _____ [3]

End of Paper

13

EXAM PAPER 2015
LEVEL   : PRIMARY 5
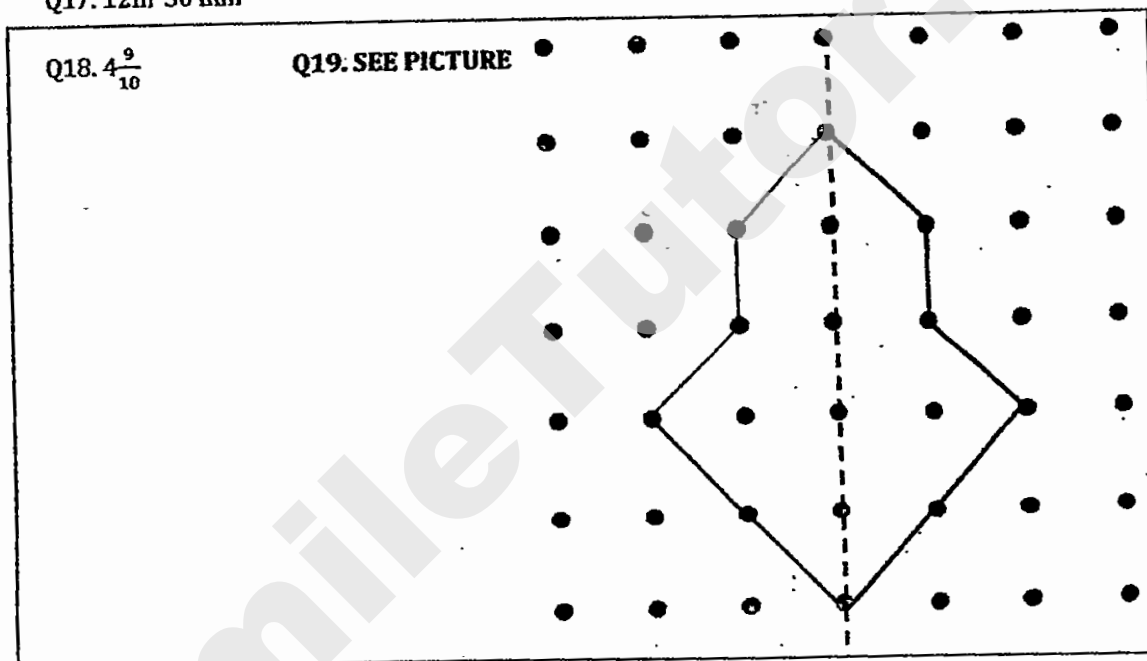**SCHOOL   : TAO NAN SCHOOL**
SUBJECT : MATHEMATICS
TERM   : SA2

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

Q16. 219.80

Q17. 12hr 30 min

Q18. $4\frac{9}{10}$ **Q19: SEE PICTURE**

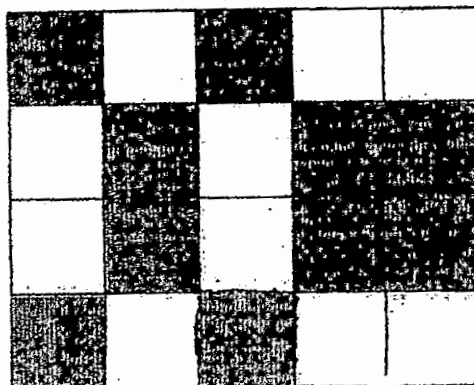Q20. 3.   **Q21.** 8450 --- 150 + 8300 = 8450

Q22. 54cm   **Q23. SEE PICTURE**

l

Q24. Box C   Q25. E   Q26. 10

Q27. 180   Q28. 4:12:11

Q29. 30cm   Q30. 39 26 + 13 =39

Q1. $36 $\frac{40}{100}$ x $60 = 424, 460 - $24 = $36

Q2. 25% ➜ $\frac{100}{400}$ x 100% = 25%

Q3. 21 ➜ 10.05kg = 10 050g, 10 050g ÷ 500 = 21g

Q4. $9 ➜ $3 +$1.50+1.50+1.50+1.50 = $9

Q5. 2
27 +21+10=58
28+23+14+7=72
72÷6=12
12 x 5 =60
60 – 58 = 2

Q6. $30
$18 ÷ $0.30 = 60
60 x $0.5 = 30

Q7. 236.25cm²
20cm x 15cm = 300cm
85cm x 15cm x ½ = 63.75cm²
300cm² – 63.75cm² = 236.25cm²

Q8. 1378 742÷7=106, 106 x 13 = 1378

Q9. 63 45 x 7 = 315, 315÷5=63

Q10. 230
368 x $5 = 1840
2760 – 1840 =920
9 – 5 = 4
920 ÷ 4 = 230

Q11. 200g
1 big marble = 2 small marbles
30 big marbles = 60 small marbles
60 – 40 = 20
20 small marbles (1100 – 800)g = 300g
40 small marbles (300 ÷20) g x 40 = 600g
800 – 600g = 200g

2

Q13a. $107.10
$\frac{15}{100}$ x $1800 = $270
$1800 - $270 = $1530
$\frac{7}{100}$ x $1530 = $107.10

Q13b. $1637.10
$107.10 + $1530 = $1637.10

Q14.180
32u – 27u = 5u
5u → 25
36u = 25÷5x 36 = 180

Q15. 34
60 ÷ 7 = 8R4
4÷2=2
8 x4= 32
32 + 2= 34

Q16a.January to February

Q16b. 132
140 + 110 +180 +150=660
660÷5=132

Q16c. $280
180 + 100=280
280÷5=56
56 x 2 = 112
112 x 2.50 = 280

Q17a. 49
89 x 4 = 356
356 – 78 = 278
278 + 16 = 294
294 ÷ 6 = 49

Q17b. 131
49 x 3 = 147
147 – 16=131

Q18a. 37 dots and 34 crosses
9 x 4 = 36
36 ÷ 2 = 34
34 + 3 = 37

Q18b. 70 → 281-1=280, 280÷4=70