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 9 756 832, the digit 5 is in the _____ place.

    (1)   tens

    (2)   hundreds

    (3)   thousands

    (4)   ten thousands

2   98 000 ÷ $\boxed{?}$ = 980   What is the missing number in the box?

    (1)   10

    (2)   100

    (3)   1 000

    (4)   10 000

3   A farmer has 2 958 ducks in his farm.
Express this number to the nearest hundred.

    (1)   3 000

    (2)   2 960

    (3)   2 900

    (4)   2 000

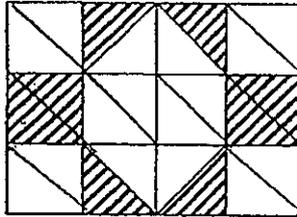**4** Which one of the following fractions is greater than $\dfrac{3}{5}$?

(1) $\dfrac{5}{10}$

(2) $\dfrac{11}{20}$

(3) $\dfrac{16}{25}$

(4) $\dfrac{28}{50}$

5 The figure below is made up of unit squares.

What fraction of the whole figure is **not** shaded?

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

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

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

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

6   What is the missing number in the box below?

$$105.493 = 100 + 5 + \frac{49}{\boxed{?}} + \frac{3}{1000}$$

(1)   1

(2)   10

(3)   100

(4)   1000

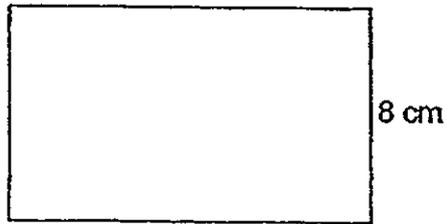**7**   Which of the following numbers is closest to 1?

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

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

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

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

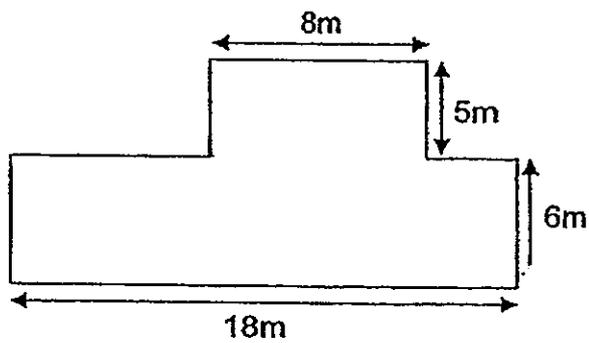**8**   Which one of the following has the same value as $1 + \frac{7}{20}$?

(1)   1.02

(2)   1.07

(3)   1.35

(4)   1.70

9 The rectangle below has an area of 112 cm². What is its perimeter?

8 cm

(1)   22 cm

(2)   44 cm

(3)   48 cm

(4)   96 cm

10 What is the area of the figure shown?

8m

5m

6m

18m

(1)   40 m²

(2)   58 m²

(3)   108 m²

(4)   148 m²

11 What is the value of $26 - 16 \div 2 + 7 \times 3$?

(1)   26

(2)   36

(3)   39

(4)   75

12 Mrs Wong has 25 tarts. She packs all of them into boxes.
Each box holds at least 2 tarts and a maximum of 4 tarts.
Which of the following **cannot** be the total number of boxes she used?

(1) 6

(2) 7

(3) 8

(4) 13

13 The product of two numbers is 2 400. One of the numbers is 20.
What is the sum of the two numbers?

(1) 120

(2) 140

(3) 1 220

(4) 2 420

14 Susan has 120 stickers. Amy has $\frac{3}{8}$ as many stickers as Susan.
How many more stickers does Susan have than Amy?

(1) 320

(2) 200

(3) 75

(4) 45

15 Kate usually spends $18 which is $\frac{3}{5}$ of her monthly pocket money.
How long will she take to save $72?

(1) 4 months

(2) 6 months

(3) 12 months

(4) 24 months

METHODIST GIRLS' SCHOOL (PRIMARY)
Founded in 1887

CONTINUAL ASSESSMENT 2013
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: 5 March 2013

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

This booklet consists of 7 printed pages including this page.

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

---

16   Arrange the following numbers in decreasing order.

570 998,   571 002,   571 065,   570 079

Ans: _____

17   What is the remainder when 4810 is divided by 50?

Ans: _____

18   What is the value of the digit 9 in 839 122?

Ans: _____

19   Write five million, seventeen thousand and one in figures.

Ans: _____

20   The area of a square is 49 cm^2. What is the perimeter of the square?

Ans: _____ cm

21   How many tens are there in the sum of 3 numbers: 1072, 260 and 128?

Ans: _____

22   Express $\dfrac{58}{4}$ as a mixed number in its simplest form.

Ans: _____

23 Find the value of $2\dfrac{1}{4} - \dfrac{5}{6}$.

Ans: _____

24 There are 216 beads. $\dfrac{2}{3}$ of the beads are yellow and the rest are blue. How many beads are blue?

Ans: _____

25 Express $2\dfrac{5}{7}$ as a decimal. Give your answer correct to 2 decimal places.

Ans: _____

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

(10 marks)

26 The sum of three numbers is 437. The first number is 17 more than the second number. The third number is twice the second number. What is the first number?

Ans: _____

27 $18 \times 36 = 20 \times 36 - \boxed{} \times 36$

What is the missing number in the box?

Ans: _____

28 Joyce earns a monthly salary of $2 400. She gives $\frac{1}{4}$ of her salary to her mother and $500 to her father. How much money did she keep for herself?

Ans: $ _____

29 Find the area of the shaded parts in the grid below.

2 cm
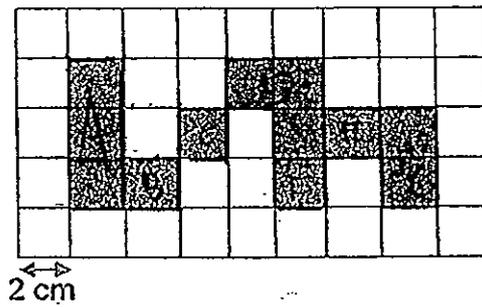
Ans: _____ cm²

30 The combined age of Grace and her brother is 73 years. Grace is 7 years younger than her brother. Express Grace's age as a fraction of her brother's age.

Ans: _____

END OF PAPER

METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887

CONTINUAL ASSESSMENT 2013
PRIMARY 5
MATHEMATICS

PAPER 2

Duration: 1h 15 min

INSTRUCTIONS TO CANDIDATES

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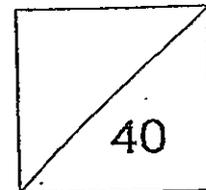Follow all instructions carefully.
Answer all questions.
Write your answers in this booklet.
The use of an approved calculator is expected, where appropriate.

Name: _____ (   )

Class: Primary 5._____

Date: 5 March 2013

40

This booklet consists of 10 printed pages includi this page.

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   Use all the digits to form the smallest 5-digit even number.
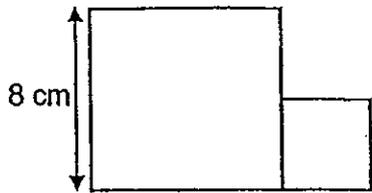
| 3 | 1 | 8 | 2 | 7 |

Ans: _____

2   I am a 4-digit number.
The digit 8 is in the thousands place.
The value of the digit 5 is 500.
The digit 6 is in the ones place.
The sum of all my digits is 19.
What number am I?

Ans: _____

3   The figure is made up of 2 squares. The total area is 80 cm^2.
     Find the length of the smaller square.

                                        Ans: _____ cm

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 There are red, blue and yellow-coloured balls in a box. Half of the balls are red. There are 12 blue balls and three times as many yellow balls as blue balls. How many balls are there altogether?

Ans: _____ [3]

5 Ronald bought 4 pairs of trousers and 2 shirts for $180.
Each pair of trousers cost as much as 2 shirts.
Find the cost of a pair of trousers.

Ans: _____ [3]

6   Mrs Chan has read $\frac{5}{9}$ of a book. She finished reading the rest of the book in the next 3 days. If she reads 44 pages each day, how many pages are there in the book?

Ans: _____ [3]

7   Sally has $150 more than Jane. After saving $12 each, Jane has $\frac{4}{7}$ as much money as Sally. How much money did Jane have at first?

Ans: _____ [3]

8   Beth and Delia had 261 beads. After Beth gave $\frac{2}{5}$ of her beads to Delia,
     Delia would have twice as many beads as Beth. How many beads did Delia
     have at first?

                                                    Ans: _____ [3]

9   Mrs Tan changed some $2 notes and $5 notes from the bank.
     There were 15 more $2 notes than $5 notes.
     The total value of the notes is $1 325.
     How many $5 notes did she change?

                                                    Ans: _____ [3]

10   Mrs Lee baked four times as many pies as Mrs Goh. After Mrs Lee had given
     away 80 pies and Mrs Goh had baked 40 more pies, they both had the same
     number of pies.

   (a)   What was the total number of pies they baked at first?

   (b)   All the pies were sold at 4 for $9.
         How much money was collected from the sale?

Ans: (a) _____ [2]

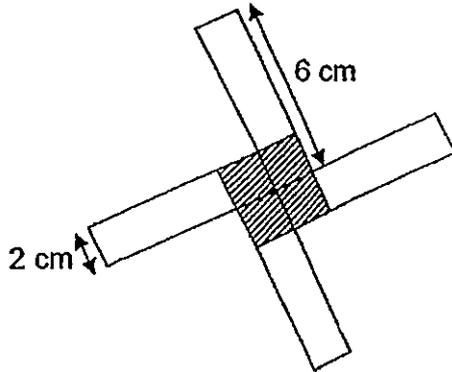   (b) _____ [2]

11   32 prefects had to make some cards for their teachers. 2 prefects were absent and the rest of the prefects had to make 4 more cards each. How many cards did they have to make in all?

Ans: _____ [4]

12 The figure is made up of 4 identical rectangles measuring 6 cm by 2 cm.

(a) Find the perimeter of the figure.

(b) Find the area of the shaded portions.

Ans: (a) _____ [2]

(b) _____ [2]

13   Mrs Tan bought 7 bags of sugar. Each bag weighed $\frac{4}{5}$ kg each.

She used $1\frac{2}{3}$ kg to bake some cookies and another $\frac{3}{4}$ kg to bake the muffins.

(a)   How much sugar did she buy? Give your answer as a mixed number.

(b)   How much sugar did she have left?

Ans: (a)_____ [2]

(b)_____ [2]

END OF PAPER

ANSWER SHEET

EXAM PAPER 2013

SCHOOL : MGS PRIMARY SCHOOL
LEVEL : PRIMARY 5
SUBJECT : MATHEMATICS
TERM : CA1

Booklet A

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

16. 571065, 571002, 570998, 570079
17. 10
18. 9000
19. 5017001
20. 28
21. 146
22. 14 ½
23. 1 5/12
24. 72
25. 2.71
26. 122
27. 2
28. 1300
29. 48
30. 33/40

Paper 2
1. 12378
2. 8506
3. 8x8=64
   80-64=16
   4x4=16
4. 12x3=36
   36+12=48
   48x2=96

1

5. $180 \div 10 = 18$
   $18 \times 2 = 36$
6. $44 \times 3 = 132$
   4u ---- 132
   1u ---- 33
   9u ---- 297
7. 1u ---- $150 \div 3 = 50$
   4u ---- 200
   $200 - 12 = 188$
8. $261 \div 3 = 8$
   $87 \div 3 = 29$
   $29 \times 2 = 58$
   $87 \times 2 = 174$
   $174 - 58 = 116$
9. $15 \times 2 = 30$
   $1325 - 30 = 1295$
   $2 + 5 = 7$
   $1295 \div 7 = 185$
10. A. 1u --- 40
    5u --- 200

    B. $200 - 80 + 40 = 160$
    $160 \div 4 = 40$
    $40 \times 9 = 360$
11. $32 - 2 = 30$
    $30 \times 4 = 120$
    $120 \div 2 = 60$
    $60 \times 32 = 1920$
12. A. $6 - 2 = 4$
    $4 + 2 + 6 = 12$
    $12 \times 4 = 48$

    B. $2 + 2 = 4$
    $4 \times 4 = 16$

13. A. $\frac{4}{5} \times 7 = 5\frac{3}{5}$

    B. $1\frac{2}{3} + \frac{3}{4} = 2\frac{5}{12}$

    $5\frac{3}{5} - 2\frac{5}{12} = 3\frac{11}{60}$

NAN HUA PRIMARY SCHOOL
CONTINUAL ASSESSMENT 1 – 2013
PRIMARY 5

MATHEMATICS

Paper 1

Section A: 15 Multiple Choice Questions (20 marks)

Section B: 15 Short Answer Questions   (20 marks)

Total Time for Paper 1:   50 minutes

INSTRUCTION TO CANDIDATES

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

Marks Obtained

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

Name : _____ (   )

Class : _____

Date : 1st March 2013   Parent's Signature :_____

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

1. In which one of the following is the digit '5' in the hundred thousands place?

 (1) 2 789 523

 (2) 3 205 612

 (3) 5 332 902

 (4) 7 514 667

2. How many thousands are there in 532 000?

 (1) 2
 (2) 32
 (3) 532
 (4) 5320

3. Which one of the following is 60 000 when rounded off to the nearest hundred?

 (1) 59 699
 (2) 59 950
 (3) 60 050
 (4) 60 499

I

4. $\dfrac{3}{8} - \dfrac{1}{4} = \boxed{}$

The missing fraction in the box is _____.

(1) $\dfrac{1}{8}$

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

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

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

5. $253\ 751 = 200\ 000 + \boxed{} + 25\ 000 + 50 + 1$

(1) 2870

(2) 5120

(3) 28 700

(4) 51 200

6. Find the value of $28 \div 2 + 2 \times 6 - 5$.

(1) 16

(2) 21

(3) 37

(4) 91

7. How many sixths are there in $6\dfrac{1}{3}$?

(1) 18

(2) 19

(3) 37

(4) 38

8. Christine is facing West. If she turns 225° clockwise, which direction would she face?

N

(1) North-East

(2) North-West

(3) South-East

(4) South-West
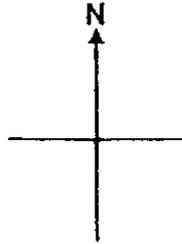
9. Write $3\frac{1}{25}$ as a decimal.

(1) 3.01

(2) 3.04

(3) 3.25

(4) 3.40

10. Joel had 90 watermelons. He sold $\frac{5}{6}$ of the watermelons. How many watermelons were left?

(1) 15

(2) 18

(3) 45

(4) 75

11. Eric is 8 years older than Lisa. Lisa is 10 years old now. What is their total age in 10 years' time?

    (1)   18 years

    (2)   28 years

    (3)   38 years

    (4)   48 years

12. Andy spent $\frac{1}{5}$ of his money on a pen and $\frac{2}{3}$ on a story book. What fraction of his money had he left?

    (1) $\frac{7}{8}$

    (2) $\frac{5}{7}$

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

    (4) $\frac{3}{15}$

13. Express 0.6 hour in minutes.

    (1)   36 min

    (2)   60 min

    (3)   216 min

    (4)   360 min

4

14. John has twice the number of apples that Sam has. Amy has thrice as many apples as John. What fraction of the total number of apples belongs to Sam?

    (1) $\dfrac{1}{9}$

    (2) $\dfrac{2}{9}$

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

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

15. The total length of three pieces of wood is 9 m 50 cm.
One piece is 2 m 70 cm long while the other two pieces have exactly the same length. What is the length of each of these two pieces of wood?

    (1)   1 m 35 cm

    (2)   3 m 40 cm

    (3)   4 m 75 cm

    (4)   6 m 80 cm

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.   98 532 = 900 hundreds + ☐ tens + 32 ones

What is the missing number in the box?

Ans :_____

17.   What is the product of 400 and 5000?

Ans :_____

18.   The difference between 2 numbers is 140. If one number is thrice the other number, what is the bigger number?

Ans :_____

19.   1893 × 20 × 9 = 1893 × 50 + 1893 × _____.

What is the missing number in the blank?

Ans : _____

20.   A rectangle shown below is divided into 4 identical squares. The perimeter of each square is 64 cm. What is the perimeter of the rectangle?

Ans : _____cm

21.   What fraction of the figure is shaded? Give your answer in the simplest form.

Ans : _____

22. $1\frac{1}{2}$ times of a number is 129. What is half of the number?

Ans : _____

23.   Express 320 cm as a fraction of 8 m in its simplest form.

Ans :_____

24.   In the figure below, the dotted line is a line of symmetry. Shade the squares and half squares required to make a symmetrical figure.
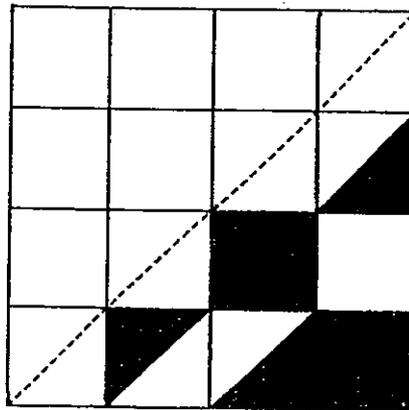
25.   A movie lasted for 2 h 45 min. It ended at 01 15 the next day. What time did it start?
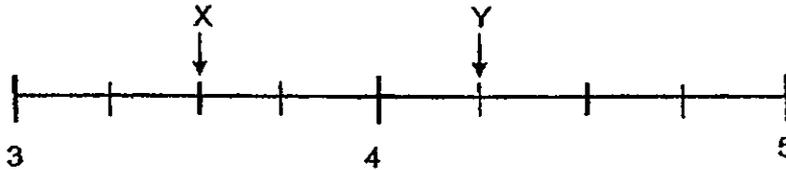

Ans : _____ p.m.

Section B (10 marks)

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

26.   The sum of 7 consecutive numbers is 84. What is the biggest number?

Ans :_____

27.   What is the number on the triangle?

Ans :_____

9
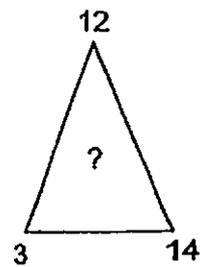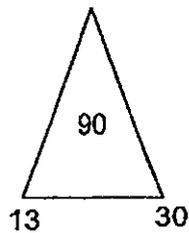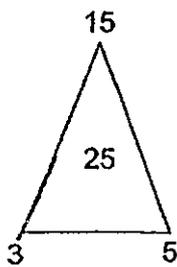
28.   Jeremy has some stamps to give to his friends. If he gives each friend 2
        stamps, Jeremy will have 6 stamps left. If he gives each friend 3 stamps,
        he will be short of 1 stamp. How many stamps does he have?

                                              Ans :_____

29.   Mrs Lim had a piece of cloth. She cut $\frac{3}{7}$ m away and used the remaining

        $\frac{5}{9}$ m to make an apron. Find the length of the original length of cloth.

                                              Ans :_____ m

30.   Gina and Mandy have $600 altogether. If Gina gives $\frac{1}{6}$ of her money to Mandy, both will have the same amount of money. How much money does Gina have at first?

Ans : _____

END OF PAPER 1

NAN HUA PRIMARY SCHOOL
CONTINUAL ASSESSMENT 1 – 2013
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 : 1ˢᵗ March 2013   Parent's Signature : _____

Questions 1 to 5 carry 2 marks each. (10 marks)
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.

1. For every $ 4 saved by Charis, her mother gave her another $ 2. How much should Charis save if she wanted to have $ 312?

Ans : $_____ [2 m]

2. Study the number line below. Find the **sum of X and Y** and express your answer as a mixed number **in the simplest form.**

Ans :_____ [2 m]

3. Mrs Ravi sold 22 345 candy bars on Monday. She sold 7 982 candy bars more on Monday than on Sunday. How many candy bars did she sell on both days?

Ans :_____ Candy bars [2 m]

6

1
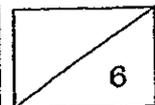
4.   A basket can hold either 12 oranges or 4 durians. If there are already 6 oranges in the basket, how many more durians can be added into the basket?

Ans:_____more durians [2 m]

5.   A rectangular piece of paper is folded as shown below. Find the perimeter of the original rectangular piece of paper.
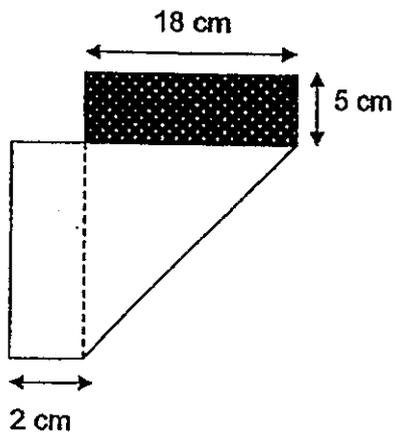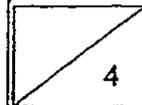
18 cm

5 cm

2 cm

Ans:_____ cm [2 m]

4

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

6.   The table below shows the rental charges for a chalet at Downtown West.

Monday – Thursday	$88 per day
Friday – Sunday	$125 per day

Jason rented **a chalet** from Tuesday to Saturday. How much rental charge did Jason pay in total?

Ans:_____[3m]

7.   Mary bought some red, blue and yellow flashing lights for her Christmas tree. The red light bulbs flash once every 10 seconds. The blue light bulbs flash once every 15 seconds and the yellow light bulbs flash once every 12 seconds. Given that all three coloured bulbs started flashing together for the first time at 9 a.m., what is the next **time** they will all flash together again?

Ans:_____[3 m]

6
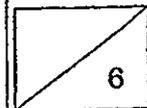
8.   The age difference between Ronald and his father is 36 years. His father's age is 3 times of Ronald's age now. How old will Ronald be in 3 years' time?

Ans:_____ [3 m]

9.   There are 130 boys and girls standing in a line. There are exactly 3 girls between 2 boys. What is the number of boys in the line?

B   G   G   G   B   G

... ...

130 boys and girls
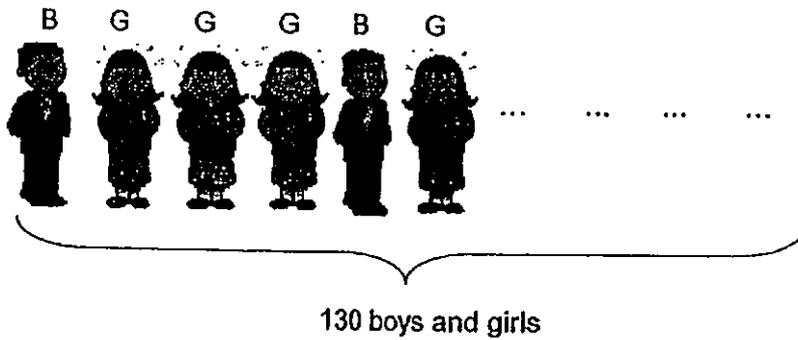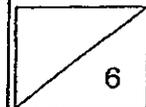
Ans:_____ [3 m]   6

10. John is $\frac{1}{8}$ m shorter than Shane and Shane is $\frac{1}{4}$ m taller than Andrew.

If John's height is $1\frac{2}{3}$ m, what is the total height of the three boys?

Ans: _____ [3 m]

11. In a race, a frog tried to catch up with a rabbit which started 162 m ahead of the frog. For every 3.8 m jump that the frog made, the rabbit made a 0.8 m jump at the same time. How many jumps would the frog have to make in order to catch up with the rabbit?

Ans: _____ [4 m]

7
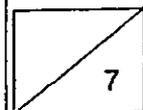
12. Naomi started spending her pocket money on Monday. On each day, she spent $0.45 more than the amount spent the day before. ~~If she~~ She spent a total of $18 ~~spent an average of $3.60 daily from~~ Monday to Friday, find the amount she spent on Monday.

Ans :_____ [4 m]

4
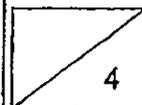
13. Figures A and B are made up of identical squares. If the perimeter of Figure A is 40 cm,
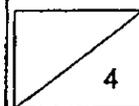
(a) find the area of Figure B.

(b) find the perimeter of Figure B.
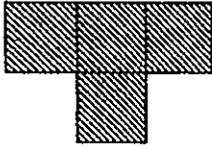
Figure A
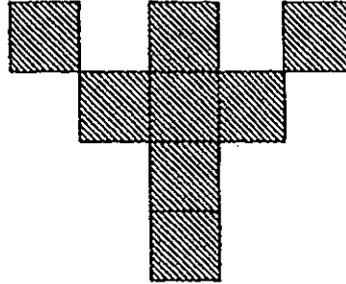
Figure B

Ans : (a)_____ [2 m]

(b)_____ [2 m]

4
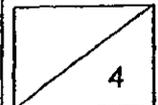
14.   Andrew's fruit shop had a total of 295 apples and pears. He sold $\frac{1}{3}$ of the pears and bought another 50 apples. In the end, there was an equal number of apples and pears in the shop. How many more pears than apples were there in the shop at first?

Ans :_____[4 m]

4

15.	Mrs Seto received $90 from the sale of 5 blouses, 3 scarves and 1 wallet. She sold 1 scarf and 1 wallet for $29. She also sold 1 blouse and 1 scarf for $17. How much did she sell one scarf for?
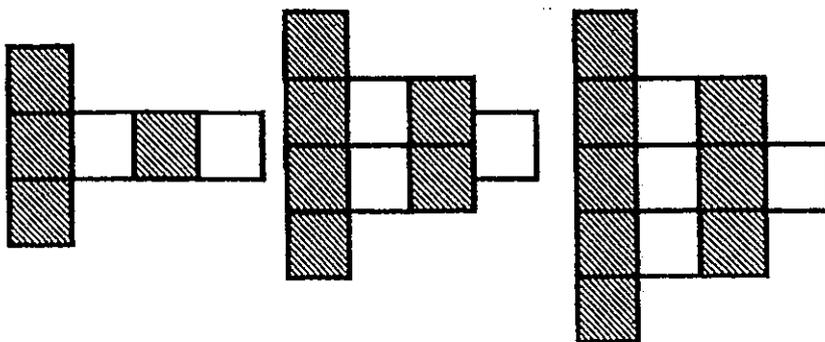
Ans :_____[4 m]

4
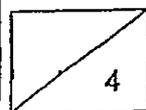
16. Angel bought 20 tables and chairs for $ 372. She sold 4 chairs away. Then she had the same number of tables and chairs left. Each table cost $ 9 more than each chair. How much did she pay for the tables?

Ans :_____ [5 m]

5
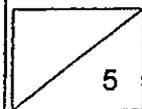
17. Alice sketched a pattern using grey and white squares as shown in the figure below.
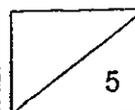

Pattern 1   Pattern 2   Pattern 3

(a) Complete the table below.

1	4	2	6
2	6	3	9
3	8	4	12
⋮	⋮	⋮	⋮
26	(a)_____(1m)	27	81

(b) What is the number of white squares in Pattern 30?

(c) Which <u>pattern number</u> gives a total of 153 grey and white squares?

Answer : b) _____ [1 m]

c) _____ [3 m]

5

11

18. Ann, Bryan and Cindy collected the same number of toy cars. Cindy gave $\frac{1}{2}$ of her toy cars to Bryan. Then, Bryan gave $\frac{1}{2}$ of his toy cars to Ann. Finally, after Bryan gave 52 toy cars to Cindy, he had the same number of toy cars as Cindy.

(a) How many toy cars did Cindy have in the end?

(b) How many toy cars were collected altogether by the 3 children at first?

Answer : a)_____ [3 m]

b)_____ [2 m]
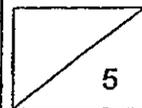
5

END OF PAPER 2

12

EXAM PAPER 2013
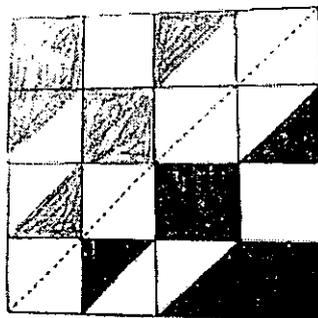
SCHOOL : NAN HUA PRIMARY SCHOOL
LEVEL : PRIMARY 5
SUBJECT : MATHEMATICS
TERM : CA1

Booklet A

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

16. 850
17. 2 000 000
18. 210
19. 130
20. 160
21. ½
22. 43
23. 2/5
24. .
25. 10.30
26. 15
27. 56
28. 20
29. 62/63
30. 360

Paper 2

1. 312÷6=52
    52x4=208
2.
$$4\frac{1}{4}+3\frac{1}{2}=7\frac{3}{4}$$

3. 22345-7982=14363
    14363+22345=36708
4. 12:4
    6:2
5. 18+5+2=25
    25x2=50

18x2=36
50+36=86

6. 88x3+2x125=514
7. 10=2x5
   12=2x2x3
   15=3x5
   2x2x3x5=60s
   60s=1min
   9.01am

8. 36÷2=18
   18+3=21

9. 130÷4=32R2
   32+1=33boys
10.
   $1\frac{16}{24}+\frac{3}{24}=1\frac{19}{24}$ $1\frac{19}{24}-\frac{6}{24}=1\frac{13}{24}$

   $1\frac{13}{24}+1\frac{19}{24}+1\frac{16}{24}=5$

11. 3.8-0.8=3
    162÷3=54
12. 0.45x10=4.50
    18-4.50=13.50
    13.50÷5=2.70

13. A. 40÷10=4
    4x4=16
    16x8=128
    B. 4x22=88

14. 295+50=345
    345÷5=69
    69+50=119

15. 29+17x2=63
    90-63=27
    27÷3=9
    17-9=8
16. 20-4=16
    16÷2=8
    20-8=12
    9+8=72
    372-72=300
    300÷20=15
    15+9=24
    24+8=192

17. A. 2x27=54
    B. 31+1=31
    C. 153÷3=51
    51-1 = 50
18. A. 104x2+52=260
    B. 104x12=1248

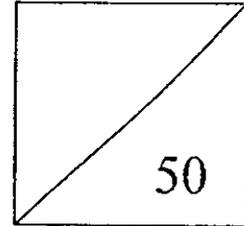# Rosyth School
First Continual Assessment 2013
Primary 5 Mathematics

Name: _____

Class: Pr 5-_____   Register No. _____

50

Duration: 25 minutes

Date: 1st March 2013   Parent's Signature:_____

PAPER 1 (BOOKLETS A & B)

Instructions to Pupils:

1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. For questions 1 to 7 in Booklet A, shade the correct ovals on the Optical Answer Sheet (OAS).
4. You are **not** allowed to use a calculator.

Booklet	Total Marks	Marks
A	10 marks	
B	10 marks	
	Paper 1 Total	

* This booklet consists of ___4___ pages altogether including this cover page.
This paper is not to be reproduced in part or whole without the permission of the Principal.

1

Booklet 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 and 4) and shade your answer on the Optical Answer Sheet.

(10 marks)

1) How many hundreds are there in 30 000?

    (1) 30

    (2) 300

    (3) 3
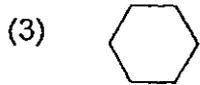
    (4) 3000

2) Find the value of $90 - 66 \div 3 + 8 \times 8$.

    (1) 42

    (2) 72

    (3) 128

    (4) 132

3) In 651.024, the digit 4 stands for _____

    (1)   4 ones

    (2)   4 tenths

    (3)   4 hundredths

    (4)   4 thousandths

4) Which of the following shape cannot be tessellated?

(1)

(2)

(3)

(4)

5) 63 000 ÷ 7 000 is the same as _____.

(1) 63 000 ÷ 70 ÷ 10

(2) 63 000 ÷ 70 ÷ 100

(3) 630 000 ÷ 700 ÷ 1000

(4) 630 000 ÷ 700 ÷ 10 000

6) A factory manufactures 300 cars in 20 hours.
How many cars can it manufacture in 1 day?

(1) 15

(2) 36

(3) 360

(4) 900

7) Mrs Tan bought 3 files for $1.90.

How much did she have to pay when she bought 39 such files?

(1) $13.00

(2) $22.70

(3) $24.70

(4) $25.70

Rosyth School
First Continual Assessment 2013
Primary 5 Mathematics

Name: _____   Register No. _____

Class: Pr 5 -_____

Date: 1st March 2013   Parent's Signature: _____

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)	10	

* This booklet consists of 3 pages including this cover page.
This paper is not to be reproduced in part or whole without the permission of the Principal.

Questions 8 to 11 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.   **(4 marks)**

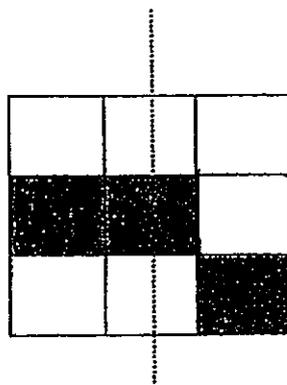8)   Round off 230 009 to the nearest hundred.

Ans: _____

9)   Find the value of 2 366 x 300.

Ans: _____

10)   Express $\dfrac{13}{25}$ as a decimal.

Ans: _____

11)   In the figure below, the dotted line is the line of symmetry.
      Shade 2 squares in the grid to make the shaded parts symmetrical.

2

Questions **12** to **14** 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. **(6 marks)**

---

12) A bus company was hired to fetch 310 students to the stadium. Each bus has a maximum capacity of 20 pupils. What is the minimum number of buses that the school needs to hire?

Ans: _____

13) Barry sat for 5 English tests. He scored 2 marks less than the previous test each time. If the total marks for the 5 tests were 360, how many marks did he score on the second test?

Ans: _____

14) Mrs Devi bought 6 packets of sugar each weighing 7.5 kg. She repacked them into 9 containers each containing 500 g of sugar and the remainder into one large bag. How much sugar did the large bag contain? Give your answer in kilogrammes.
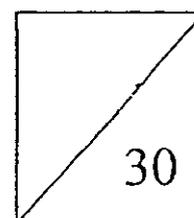
Ans: _____ kg

3

Rosyth School
Firts Semestral Assessment 2013
Primary 5 Mathematics

Name: _____

Class: Pr 5-_____   Register No. _____

30

Duration: 50 minutes

Date: 1st March 2013   Parent's Signature:_____

PAPER 2

<u>Instructions to Pupils:</u>

1. Follow all instructions carefully.
2. Answer all questions.
3. Write your answers in this booklet.
4. **Show your working clearly** as marks are awarded for correct working.
5. You are allowed to use a calculator.

Questions	Total Marks	Marks
Q 1 to 3	6 marks	
Q 4 to 9	24 marks	
Paper 2 Total		

*This paper consists of <u>8</u> pages altogether including this cover page.
This paper is not to be reproduced in part or whole without the permission of the Principal.

Questions 1 to 3 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. **(6 marks)**

1) Extend the tessellation by drawing 2 more unit shapes in the space provided.
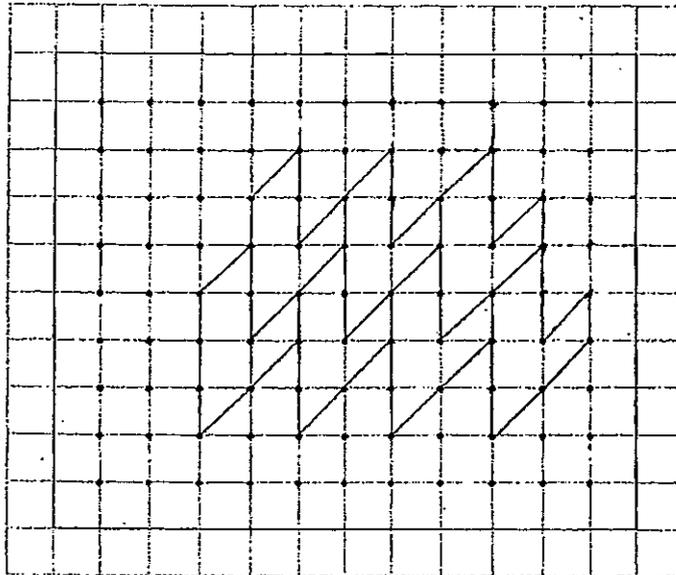
2) 48 trees were placed equally along a road. The distance between the 1st and the 8th tree was 31.5 m. Find the total distance from the 1st tree to the 48th tree.

Ans: _____m

3) Sharifa bought 2 vases and 3 flower pots at $48.60. If each vase cost thrice as much as a flower pot, find the cost of 1 vase.

Ans: $_____

For questions 4 to 9, **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.

<div align="right">(24 marks)</div>

4)   The table shows the rates of payment at a car park.

1st hour	$3.00
Every additional hour or part thereof	$1.70

Mrs Ang parked her car at the car park from 2 pm to 6.15 pm. How much parking fee did she have to pay?

Ans: _____ [3m]

5)   At a fast food restaurant, Uncle Sam bought 3 packets of chicken nuggets, 5 pieces of chicken and 5 cups of soft drinks at $23.60. Aunt Sammi bought 4 packets of chicken nuggets, 2 pieces of chicken and 2 packets of soft drinks at $16.30. What is the price of 1 packet of chicken nuggets, 1 piece of chicken and 1 cup of soft drinks?

Ans: _____ [3m]

4

6) A baker had 30.6 kg of blueberries. From Sunday to Thursday, he would use 3.8 kg of blueberries daily to make blueberry tarts. The rest of the blueberries were used for making blueberry cakes on Friday and Saturday. He used 3.5 kg more blueberries on Friday than Saturday. How many kilograms of blueberries did he use on Friday? (Give your answer to one decimal place)

Ans: _____ [5m]

7)   1 kg of apples costs $6 more than 1 kg of bananas and $11 less than 1 kg of plums. Kumar bought 2 kg of apples, 5 kg of bananas and 2 kg of plums for a total cost of $118. Find the total cost of 1 kg of apples, 1 kg of bananas and 1 kg of plums.

Ans: _____ [4m]

8)   The cost for 3 laptops and 2 iPads is $3 920.

The cost for 5 laptops and 3 iPads is $6 324.

How much would it cost for Mr. Donald to buy 2 iPads?

Ans:_____ [5m]

9) Maxton has $386 less than Luke. After Maxton gave Luke some money, Luke had thrice as much as Maxton. If Maxton had $400 left, how much did Maxton give to

Ans: _____ [4m]

ANSWER SHEET

EXAM PAPER 2013
SCHOOL : ROSYTH
SUBJECT : PRIMARY 5 MATHEMATICS

TERM : CA1

Q1	Q2	Q3	Q4	Q5	Q6	Q7
2	4	4	1	2	3	3

8)230000   9)709800   10)0.52   11)   12)16
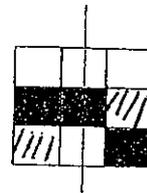
13)5u→360 − (10x2)
   =360 − 20
   5u→340
   1u→340÷5 = 68
 Second test→1u + (3x2)
   = 68 + 6 = 74

14)7.5 x 6 = 45
   9 x 0.5 = 4.5
   45 − 4.5 = 40.5kg

Paper 2
1)
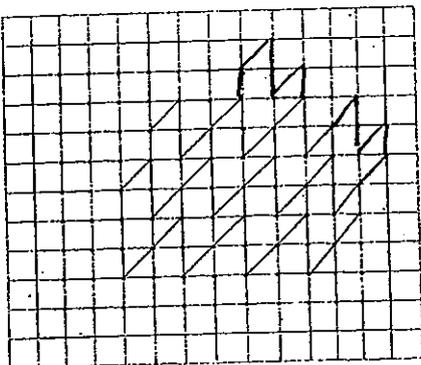
2)2115.5m

3)$16.20

4)3.00 + (1.7 x 4)
  = 3.00 + 6.80
  = 9.80

5)3n + 5c + 5d →23.6
  4h + 2c + 2d →$16.30
  7n + 7c + 7d →$39.9
  In the 1d→39.9÷7 = $5.70

6)30.6 − 19 = 11.6kg
  11.6 − 3.5 = 81kg
  8.1÷2 = 3.7
  4.05 + 3.5 = 7.55 ≈ 7.6

7)(6x2)+(17x2) = 46
  118 − 46 = 72
  72÷9 = 8
  (8+6) + 8 + (8+17) = 47

8)6324 − 3920 = 2404
  2 Laptop + 1 ipad = 2404
  3920 x 2 = 7840
  1Lap→7840 − 6324 = 1516
  2404 − 1516 = 888
  5 lap→888 x 5 = 4440
  3ipad→6324 − 4440 = 1884
  1884÷3 = 628
  2 ipad→628 x 2 = $1256

9)1u→400
  2u→400 x 2 = 800
  X + X→800 − 386
  2X = 414
  1X→414÷2 = 207

NAN HUA PRIMARY SCHOOL
CONTINUAL ASSESSMENT 2 – 2013
PRIMARY 5

MATHEMATICS

Paper 1

Section A: 15 Multiple Choice Questions (20 marks)

Section B: 15 Short Answer Questions   (20 marks)

Total Time for Paper 1:   50 minutes

INSTRUCTION TO CANDIDATES

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

Marks Obtained

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

Name : _____ (   )

Class : 5_____

Date :   29 August 2013   Parent's Signature :_____

Section A (20 marks)

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

1.   What is the value of $27 + 9 + 3 - 5 \times 2$?

    (1)   14

    (2)   2

    (3)   20

    (4)   50

2.   There are 56 pupils in the International Chess Club. 18 of these pupils are girls. What is the ratio of the number of boys to the number of girls?

    (1)   9 : 28

    (2)   19 : 28

    (3)   9 : 19

    (4)   19 : 9

3.   What is $1\frac{3}{7}$ as a decimal? Express your answer correct to 2 decimal places.

    (1)   1.37

    (2)   1.42

    (3)   1.43

    (4)   1.73

4. If 24 : 18 = ☼ : 24, what is the value of ☼?

    (1)   18

    (2)   30 ·

    (3)   32

    (4)   36

5. _____ is the same as $\dfrac{7}{11} \times \dfrac{1}{3}$.

    (1) $\dfrac{7}{11} + \dfrac{1}{3}$

    (2) $\dfrac{7}{11} \div 3$

    (3) $\dfrac{11}{7} + \dfrac{1}{3}$

    (4) $\dfrac{11}{7} \div 3$

6. There are 2 red markers, 4 blue markers and 10 black markers in a box. What percentage of the markers in the box is blue?

    (1)   40%

    (2)   25%

    (3)   16%

    (4)   4%

0.8

7. 8 tenths is _____ hundredths more than 0.5.

    (1)   300

    (2)   30

    (3)   3

    (4)   0.3

8. The ratio of the number of goats to the number of ducks in a farm is 3 : 2. There are twice as many goats as cows in the farm. What is the ratio of the number of ducks to the total number of animals in the farm?

    (1)   2 : 11

    (2)   2 : 13

    (3)   4 : 9

    (4)   4 : 13

9. Andy has $\frac{3}{8}$ kg of sand. He pours the sand equally into 6 jars. How much sand is there in each jar?

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

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

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

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

10. Round off 579 867 to the nearest thousand.

    (1)   580 000

    (2)   579 900

    (3)   579 000

    (4)   578 000

11. Bala, Crystal and Danny shared a sum of $160. Bala and Crystal received a total of 60% of the money, and Danny received the rest of the money. How much money did Danny receive?

    (1) $100

    (2) $96

    (3) $82

    (4) $64

12. The ratio of the length of a rectangle to its breadth is 5 : 2. If the length of the rectangle is 10 cm, what is its perimeter?

    (1)   14 cm

    (2)   28 cm

    (3)   40 cm

    (4)   70 cm

13. Elaine ate $\frac{1}{10}$ of a cake and gave $\frac{2}{3}$ of the remainder to her neighbour. What percentage of the cake was left?

    (1) $23\frac{1}{3}$ %

    (2)   30 %

    (3) $33\frac{1}{3}$ %

    (4)   60 %

14. In the number line below, find the value of A.
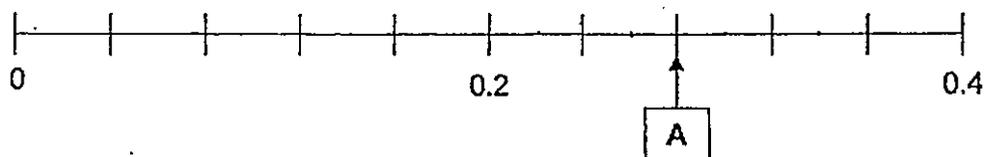
(1) 0.22

(2) 0.24

(3) 0.28

(4) 0.30

15. Felix and Gary shared 144 stickers in the ratio 5 : 4. How many stickers does Felix have?

(1) 64

(2) 72

(3) 75

(4) 80

Section B (20 marks)
Questions 16 to 25 carry 1 mark each. Questions 26 to 30 carry 2 marks each.
For each question from 26 to 30, show your workings clearly in the space below it and write your answer in the space provided. Give your answers in the units stated.

16. What is the sum of the value of the digits "5" in 4567 and 56 789 ?

Ans: _____

17. Refer to the diagram below. Harry was facing the church. He then turned 225° anti-clockwise. Where is Harry facing now?
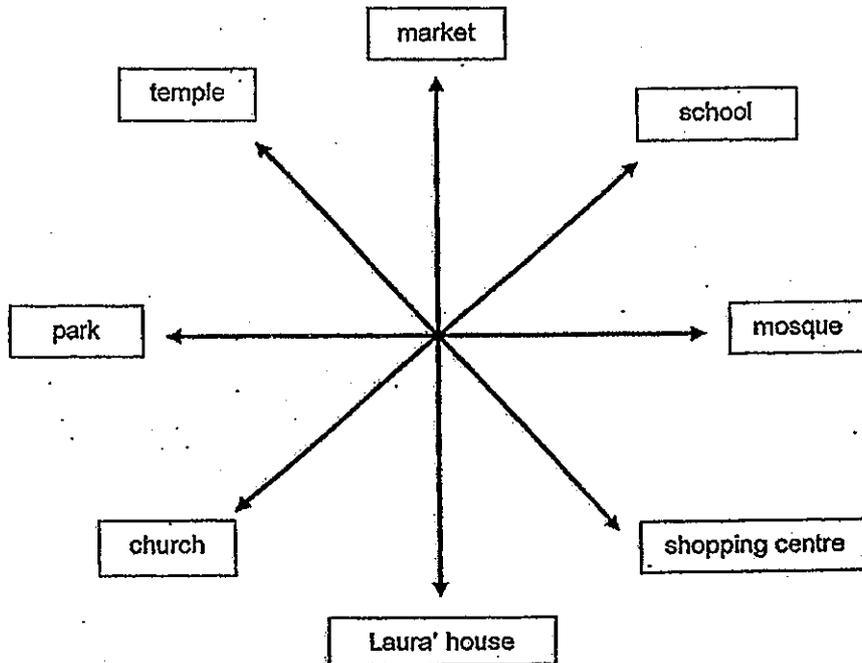
Ans: _____

18. There are 140 children in the school hall. 78 of them are girls and the rest are boys. What is the ratio of the number of boys to the number of girls? Give your answer in simplest form.

Ans: _____

19. Express $\dfrac{9}{12}$ as a percentage.

Ans: _____ %

20. What is the smallest whole number that is divisible exactly by 6 and 9?

Ans: _____

21. Find the sum of the first 5 multiples of 7.

Ans: _____

22. Arrange the following lengths in **descending** order.

$$2 \text{ m } 5 \text{ cm} \qquad \frac{11}{5} \text{ m} \qquad 2\frac{3}{4} \text{ m} \qquad 250 \text{ cm}$$

Ans: _____, _____,_____,_____

---

23. The usual price of a printer is $180. How much does Bala have to pay during a sale?
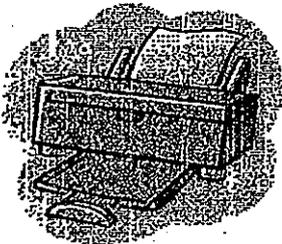
SALE!
25% discount

Ans: $ _____

---

24. In the figure below (not drawn to scale), find the area of triangle ABC.
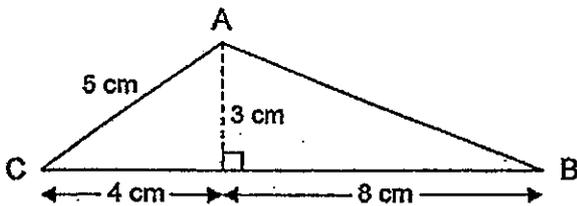
Ans: _____ cm^2

---

25. Kerry had 130 beads at first. After her sister gave her 50 beads, they both had an equal number of beads. How many beads did her sister have at first?

Ans: _____

---

26. The graph below shows how Glenn allocated his monthly income in July.

Distribution of Glenn's Monthly Income
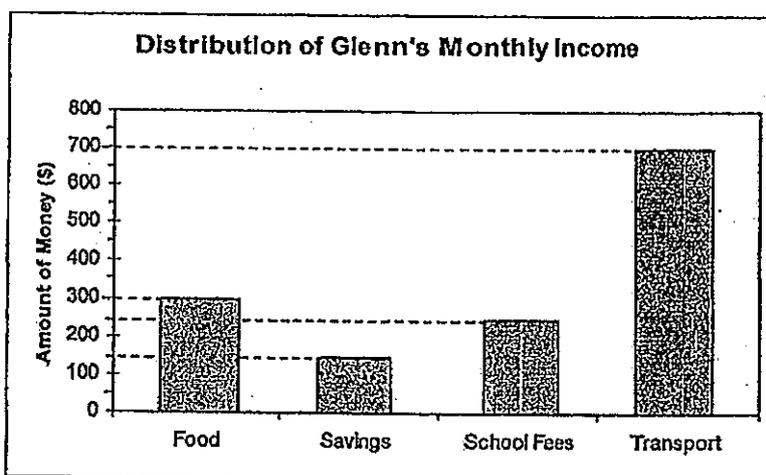
How much did Glenn spend in July?

Ans: $ _____

27. Ivan spends $4.30 each day while Julian spends $8 each day. When Julian spends $96, how much does Ivan spend?

Ans: $ _____

---

28. The solid figure below is made up of some 3-cm cubes. What is the volume of the solid figure?
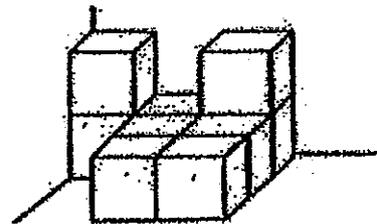
Ans: _____ cm^3

29. A block of solid wood is dipped fully into a pail of blue paint. When the paint dried, the block of wood was then cut into 4 identical cubes along the lines drawn on the cube as shown below. The total unpainted area of the 4 cubes was 54 cm². What is the volume of 1 such cube?
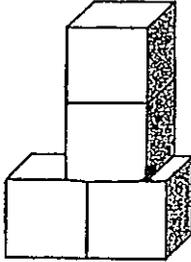
Ans: _____ cm³

30. The figure below is made up of squares of four different sizes. Given that square ABCD has a perimeter of 32 cm, find the area of the shaded parts.
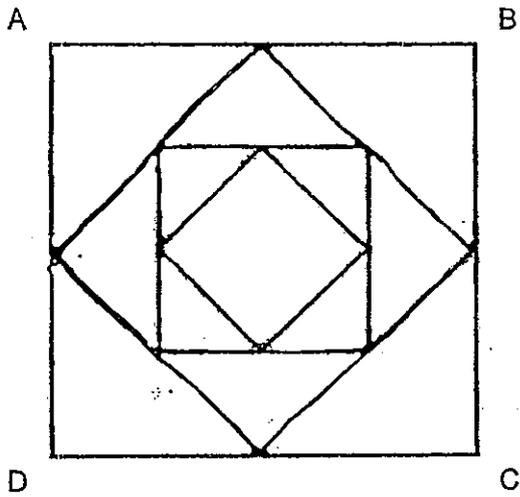
Ans: _____ cm^2

NAN HUA PRIMARY SCHOOL
CONTINUAL ASSESSMENT 2 – 2013
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)

<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 and show your workings clearly.
5. You are allowed to use a calculator.

Marks Obtained

Total		/ 60

Name : _____(   )

Class : 5_____

Date : 29 August 2013   Parent's Signature :_____

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

1. The pattern in the box below shows part of a tessellation. Extend the tessellation by drawing 2 more unit shapes. [2]
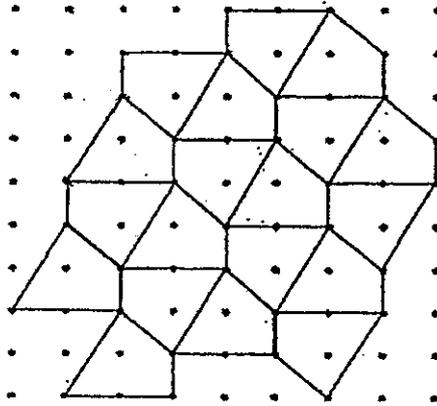
2. The figure below is made of a square ABCD of sides 12 cm and 2 identical right-angled triangles. Given that the quadrilateral DPEQ has an area of 23 cm² and length AQ: QD is in the ratio 7:5, find the area of triangle CEP.

Answer: _____ cm² [2]

1
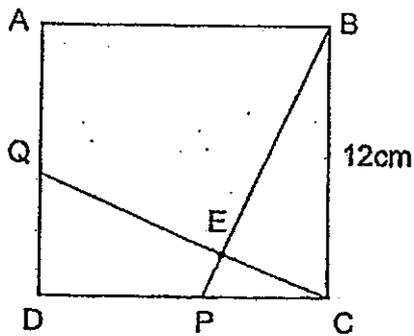
3. The figure shows a rectangular glass box partly filled with identical 2-cm cubes. When the box is completely filled with 2-cm cubes, how many cubes are there in the box altogether?
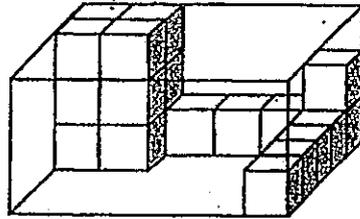
Answer: _____ [2]

4. The square base of a cuboid as shown below is 256 cm². The height of the cuboid is twice the length of the square base. Find the volume of the cuboid.
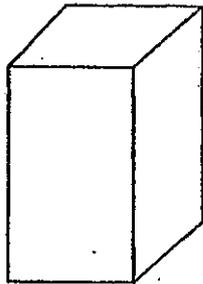
Answer: _____ cm³ [2]

2

5. Mrs Tan paid $84 for a cooking pot after a discount of 40%. What was the price of the cooking pot before the discount?

Answer: $ _____ [2]

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

Do not write in this space

6. Mrs Lim paid for some grocery at a supermarket. She used only $5 notes to pay for the grocery. If she used only $2 notes to pay for the grocery instead, she would need 9 more $2 notes than $5 notes. How much did the grocery cost?

Answer: _____[3]

7 There is an equal number of girls in classes 6A and 6B.

$\frac{2}{3}$ of the pupils in class 6A are girls and $\frac{1}{5}$ of the pupils in class 6B are boys.

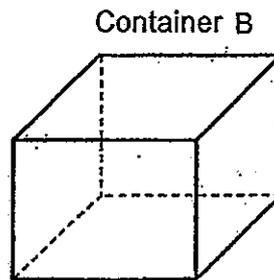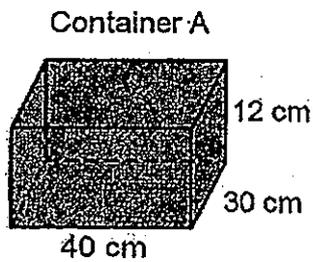Given that the two classes have a total of 24 boys, how many pupils are there in class 6A?

Answer: _____[3]

4

8. Some children were in the hall. The ratio of the number of boys to the number of girls was 5 : 1. Another 60 girls came into the hall and the ratio of the number of boys to the number of girls became 2 : 1. How many boys were there?

Answer: _____[3]

9.

Container A

12 cm

30 cm

40 cm

Container B

Container A is completely filled with water. Half of the water from container A is poured into container B. Container B is now one third full. What is the capacity of container B in litres?

Answer: _____[3]

5

10. A box of sugar has a mass of 4.65 kg. An identical box containing flour has a mass of 7.89 kg. If the mass of the sugar is $\frac{1}{4}$ that of the flour, what is the mass of the flour?

Answer: _____[3]

11. A tour bus can carry a maximum of 42 children or 36 adults. Given that there are already 28 children and 6 adults on the bus, what is the maximum number of additional adults that can be allowed on the bus?

Answer: _____[3]

6

12. A shop owner bought some cans of dog food. He divided the dog food equally among his dogs. If he gave 7 cans to each dog, he would have 4 cans left. If he gave 11 cans to each dog, he would need 28 more cans. How many dogs were there in the pet shop?
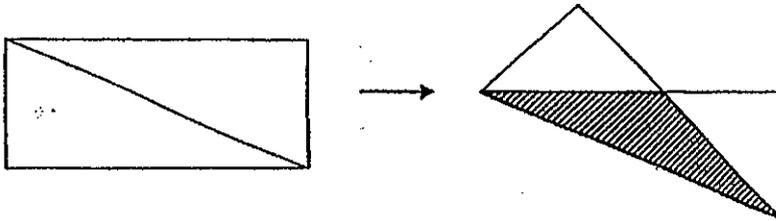
Answer: _____ [4]

13. A rectangle is folded along a diagonal as shown.

The area of the figure is now $\frac{5}{8}$ of the area of the original rectangle.

The area of the shaded triangle is 18 cm².
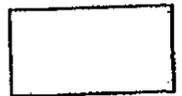
(a) Find the area of the original rectangle.

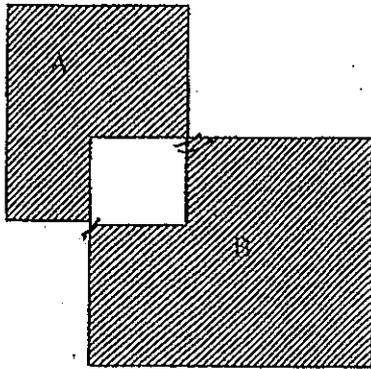(b) Find the area of the unshaded part of the new figure.

Answer: (a) _____ [3]

Answer: (b) _____ [1]

14. The figure below is made by 2 overlapping rectangles A and B.
$\frac{5}{7}$ of rectangle A and $\frac{8}{9}$ of rectangle B is shaded.

(a) Express the unshaded area as a fraction of the total area of the figure.

(b) Given that the unshaded area is a square of area 64 cm², what is the area of the shaded part of rectangle A?

Answer: (a) _____ [2]
(b) _____ [2]

15. Samuel spent $\frac{2}{7}$ of his money on a box of biscuits.

He spent $\frac{9}{10}$ of the remaining money on donuts.

(a) What fraction of his money did he spend on donuts?
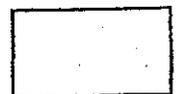(b) If he was left with $9.25, how much did he have at first?

Answer: (a) _____[2]

Answer: (b) _____[3]

10

16. The ratio of Jeremiah's age to his aunt's age is 1 : 2.
In 15 years' time, the new ratio will be 8 : 13.
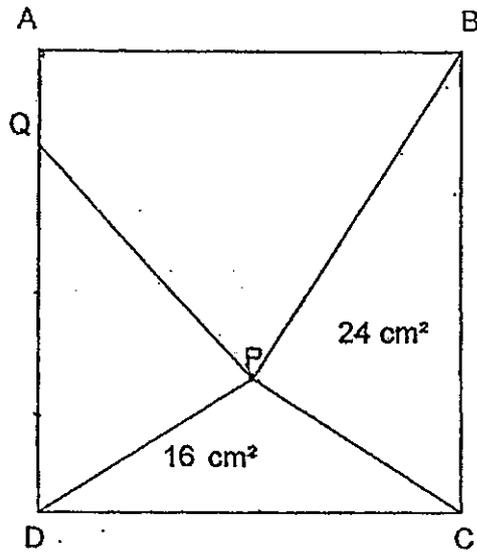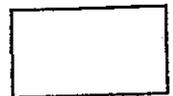How old was Jeremiah 8 years ago?

Answer:_____ [5]

11

17 In the figure given below, ABCD is a rectangle. P is a point such that DP = PC. Given that AQ is $\frac{1}{3}$ the length of QD, find the area of the quadrilateral ABPQ.

Answer: _____ [5]

18. There were 90 more boys than girls at a school funfair.
After 80% of the boys and 30% of the girls left the funfair.
There were twice as many girls as boys that remained.
How many boys were at the funfair at first?

Answer: _____[5]

End-of-Paper

ANSWER SHEET

EXAM PAPER 2013

SCHOOL : NAN HUA PRIMARY SCHOOL
LEVEL   : PRIMARY 5
SUBJECT : MATHES
TERM   : CA2

Booklet A

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

16. 50500
17. Market
18. 31:39
19. 75%
20. 18
21. 105
22. 2 3/9 , 250cm, 11/5, 2m5cm
23. 135
24. 18
25. 230
26. 1250
27. 51.60
28. 243
29. 27
30. 8

Paper2
   1. ..

   2. 7+5=12
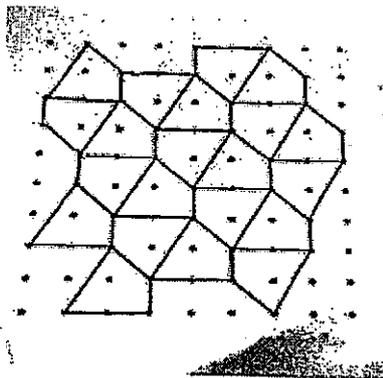   12÷12=1
       ½ x5x12=30
       30-23=7

3. 6x3x5=90

4. 256 = 16x16
   16x2=32
   16x16x32=8192

5. 60% ---- 84
   10% ---- 14
   100% ----- 140

6. Mulitple of 2 : 2,4,6,8,10,12,14
   +9 : 20,22,24,26,28,30,32
   Muliple of 5 : 5, 10,15,20,25,30,25
   Ans : $30

7. G: B
   2:1
   4:2

   G:B
   4:1

   2+1=3
   24÷3=8
   8x6=48
8. B:G
   5:1
   10:2

   B:G
   2:1
   10:5

   3u ---- 60
   1u ---- 20
   10u ---- 200
9. 40x30x12=14400
   14400÷2=7200
   7200= 71200ml
   7200x3=21600
10. 7.89-4.65=3.24

$3.24 \div 3 = 1.08$

$1.08 \times 4 = 4.32$

11. $7c$---$6a$

$28c$---- $24a$

$24 + 6 = 30$

$36 - 30 = 6$

12. $28 + 4 = 32$

$11 - 7 = 4$

$32 \div 4 = 8$

13. A. $8 - 5 = 3$

$18 \div 3 = 6$

$6 \times 8 = 48$

B. $5 \times 6 = 30$

$48 - 18 \times 2 = 12$

14. A. A (5:2)

B (8:1) – B (16: 2)

$2/23$

B. $2u$ ---- 64

$5u$ --- 160

15. A. $2/7 = 20/70$

$10u$ --- 50

$9u$ ----45

$45/70 = 9/14$

B. $9.25 \times 10 = 92.50$

$92.50 \div 5 = 18.50$

$18.50 \times 7 = 129.50$

16. $1:2$ ---- $5:10$

$8 - 5 = 3$

$3u$ --- 15

$1u$ --- 5

$5u$ --- 25

$25 - 8 = 17$

17. Area of ADP is same as BPC

3

Area of APQ = 1/3 of DPQ
APQ: DPQ
   1:3

4u --- 24
1u --- 6
6+16+16=38

18. 100% -80% = 20%
100%-30%=70%
2B = 1G

2 x 1/5 of boys ---- 7/10 of girls
2/5 of boys ----- 14/20 of girls
14/35 of boys --- 14/20 of girls

35u -20u = 15u
15u ---- 90
1u --- 90÷15=6
35u --- 6x35= 210

Rosyth School
Second Continual Assessment 2013
Primary 5 Mathematics

Name: _____   Register No. _____

Class: Pr 5 - _____

Date: 27th August 2013   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	

* This booklet consists of 6 pages (including this cover page)

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

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

(20 marks)

1. Which of the following number has the digit 3 in the ten thousands place?

    (1)   219 537
    (2)   302 781
    (3)   832 600
    (4)   993 492

2. What is the sum of 7 tenths and 70 thousandths?

    (1)   0.707
    (2)   0.77
    (3)   770
    (4)   70 070

3. 650 000 is _____ hundreds less than 1 million.

    (1)   350
    (2)   3 500
    (3)   35 000
    (4)   350 000

4. The total mass of 2 dictionaries and a notebook is 1 350 g.
   The notebook is 56 g. What is the average mass of the dictionaries?

    (1)   450 g
    (2)   647 g
    (3)   675 g
    (4)   1 294 g

5. How many more squares must be shaded so that the figure is $\frac{1}{3}$ shaded?
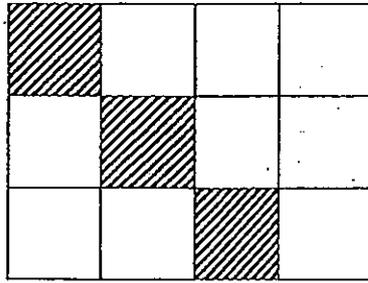
(1) 1

(2) 5

(3) 6

(4) 4

6. What is the value of $4\frac{1}{2} \times \frac{1}{3}$?

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

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

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

(4) $4\frac{1}{6}$

7. 94 children took part in a competition. 50 of them were boys.
What is the ratio of the number of girls to the number of boys?

(1) 22 : 25

(2) 25 : 22

(3) 22 : 47

(4) 47 : 22

8. $\frac{3}{5}$ of the participants in a marathon are men. What percentage of the participants are women?

    (1)   0.4 %

    (2)   0.6 %

    (3)   40 %

    (4)   60%

9. Express 0.9 % as a fraction.

    (1) $\frac{9}{10}$

    (2) $\frac{9}{100}$

    (3) $\frac{9}{1000}$

    (4) $\frac{9}{10000}$

10. There are 10 apples, 50 oranges and 20 pears. What percentage of the fruits are pears?

    (1)   12.5 %

    (2)   16 %

    (3)   25 %

    (4)   62.5 %

11. The ratio of the number of cars to motorcycles in a carpark is 4 : 1. After 18 cars left, the ratio became 5 : 2. How many cars were there at first?

    (1)   6

    (2)   24

    (3)   30

    (4)   48

12. The table shows the scores of 120 participants in a competition.

Score	0-10	11-20	21-30	31-40	41-50
No. of participants	6	24	60	27	3

Only 25 % of the participants are eligible to move on to the next stage. What is the minimum score a participant needs to obtain to continue in the competition?

(1) 11

(2) 20

(3) 21

(4) 31

13. In a class of 30, $\frac{3}{5}$ are boys. $\frac{2}{3}$ of the girls are present. How many girls are absent?

(1) 8

(2) 2

(3) 10

(4) 4

14. Helen took 3 days to sew 2 dresses. What is the minimum number of weeks she needs to take to sew 34 such dresses?

(1) 8

(2) 12

(3) 51

(4) 102

15. Mr. Jamal bought 123 balloons for his class. He gave 4 balloons to each boy and 3 balloons to each girl. There were 8 more boys than girls in his class. What is the number of boys in his class?

    (1)   13
    (2)   21
    (3)   26
    (4)   34

Please proceed to Booklet B

Rosyth School
Second Continual Assessment 2013
Primary 5 Mathematics

Name:_____ Register No._____

Class: Pr 5 -_____

Date: 27th August 2013   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 6 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.

(10 marks)

16. Find the value of $48.28 \div 8$.

Ans:_____

17. Find the value of $25 + 6 \div 2 - (3 \times 7)$.

Ans: _____

18. What is the value of $3\dfrac{1}{6} - 1\dfrac{1}{4}$? Give your answer in the simplest form.

Ans: _____

19. Express 1.08 as a percentage.

Ans: _____

20. The ratio of the number of red marbles to green marbles to white marbles is 3 : 5 : 1. If there are 96 red and white marbles, how many green marbles are there?

Ans: _____

21. Kai and Lea donated a sum of money to a charity in the ratio of 8 : 5. Kai donated $24 more than Lea. What is the total amount they donated?

Ans: $ _____

22. A rope was 50 m long. 12 m of it was used. What percentage of the rope was left?

Ans: _____ %

23. Express 36 minutes as a percentage of 2 hours.

Ans: _____ %

3

24. Sarah paid $112 for a bag that was sold at a discount of 30 %. What was the price of the bag before the discount?

Ans: $ _____

25. Ally, Ben and Candace collected a total of 96 seashells.

Ally and Ben together collected 61 seashells.

Ally and Candace together collected 47 seashells.

How many seashells did Ally collect?

Ans: _____

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. Farhana is 9 years older than her brother. What is her brother's age if their total age is 27?

Ans: _____

27. 3 pears cost as much as 5 apples. Each apple costs 30 cents. How many pears can you get with $14?

Ans: $ _____

4 girls shared 3 chocolate bars equally. 3 boys shared 5 chocolate bars equally. What is the sum of 1 girl's and 1 boy's share?
Leave your answer in the simplest form.

Ans: _____

29. 420 children attended a concert. $\frac{4}{9}$ of the girls is equal to $\frac{1}{3}$ of the boys. How many more boys than girls watched the concert?

Ans: _____

30. Owen had a sum of money. He gave 20 % of the money to his sister and spent 25 % of the remaining on a book. He had $48 left. What was the sum of money Owen had at first?

Ans: $ _____

End of Paper

Rosyth School
Second Continual Assessment 2013
Primary 5 Mathematics

Name: _____   Register No. _____

Class: Pr 5-_____

Date: 27 August 2013   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)
This paper is not to be reproduced in part or whole without the permission of the Principal.

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. A photograph album has 48 pages and contains exactly 4 photographs on each page. If the photographs were re-arranged to contain 6 photographs on each page instead, what is the number of pages that would be empty?

Ans: _____

2. The ratio of Alice's money to Bernice's money was 4 : 5. The ratio of Alice's money to Clarice's money was 3 : 4. If Clarice has $64, how much money does Bernice have?

Ans: $_____

2

3. The average mass of Jim and Kim is 62.6kg. Kim is 4.8kg lighter than Jim. What is Jim's mass?
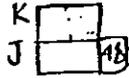
Ans: _____kg

4. There were 580 people in a theatre. $\frac{3}{5}$ of them were adults and the rest were children. The ratio of the number of boys to the number of girls was 3 : 5. How many girls were there in the theatre?

Ans: _____

3   (Go on to the next page)

5. Jason had $20. He gave 40% of it to his sister and 25% of the remainder to his brother. How much money did Jason give to his brother?

Ans: $_____

(Go on to the next page)

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 ratio of the number of boys to the number of girls in a school hall was 3 : 5 at first. After $\frac{1}{4}$ of the boys left the hall, there were 174 pupils remaining in the hall.

How many pupils were in the hall at first?

Ans: _____ [3m]

(Go on to the next page

7. The average number of oranges in five boxes was 77. After two more boxes of oranges are added, the new average becomes 83. What is the average number of oranges of the two additional boxes?

Ans: _____ [3m]

(Go on to the next page)

8. Mdm Azizah went shopping with $850. She used $\frac{1}{4}$ of the money to buy a dress and $\frac{3}{5}$ of the remainder to buy a handbag. She also bought a pair of shoes. If she had $161.25 left, how much money did she spend on the pair of shoes?

Ans: _____ [3m]

9. James had some stamps. He gave 15% of it away to Ken and 40% of the remainder to Leon. If he had 255 stamps left, how many did he have at first?

Ans: _____ [3m]

8 (Go on to the next page)

10. A train left Station A with some passengers. When it reached Station B, 7 passengers boarded and 2 passengers alighted. At Station C, 12 passengers boarded and 9 passengers alighted. At Station D, 15 passengers boarded and 8 passengers got off. At Station E, all 24 passengers alighted from the train. How many passengers were in the train when it left Station A?

Ans: _____ [3m]

(Go on to the next page)

11. Shane received a monthly allowance of $120 in January. His father increased it by 20% in February. February's monthly allowance was then increased by 30% in March after Shane asked for more. What was the monthly allowance in March?

Ans: _____ [3m]

(Go on to the next page)

12. The ratio of the number of 20-cent coins to 50-cent coins in a jar was 7 : 2. After Ashwin added 51 20-cent coins and 51 50-cent coins to the jar, the ratio of the number of 20-cent coins to 50-cent coins in a jar became 9 : 5. What was the total value of the 50-cent coins in the jar at first?

Ans: _____ [4m]

(Go on to the next page)

13. The total cost of 10 apples and 8 pears is $9.80. The total cost of 7 apples and 3

pears is $5.30. What is the total cost of 6 apples and 7 pears?

Ans: _____ [4m] ○

(Go on to the next page)

14. There were $\frac{3}{4}$ as many local stamps as foreign stamps in a box. After 66 local stamps were removed and replaced with the same number of foreign stamps, the ratio of local stamps to foreign stamps became 1 : 2. How many local stamps were there in the box at first?

Ans: _____ [4m]

(Go on to the next page)

15. A farmer keeps chickens, ducks and geese on his farm. There are $\frac{2}{7}$ as many ducks as geese. There are 104 more chickens than geese. The total number of ducks and chickens is 5 times the number of geese. What is the total number of chickens, ducks and geese on the farm?

Ans: _____ [5m]

16. Alex, Ben and Cid shared a sum of $467.50. Alex received $\frac{3}{8}$ of the total amount of money received by Ben and Cid. Ben received $\frac{7}{10}$ of the amount of money received by Cid. How much money did Cid receive?

Ans: _____ [5m]

(Go on to the next page)

17. Liming bought a bag of blue marbles and a bag of green marbles. $\frac{1}{6}$ of the blue marbles was equal to $\frac{3}{8}$ of the green marbles. When 48 green marbles were removed, there were 9 times as many blue marbles as green marbles. What was the total number of green and blue marbles in the bags at first?

Ans: _____ [5m]

(Go on to the next page)

18. During a stationary sale, pens were sold at 30% discount. Raju wanted to buy 13 pens but was short of $5.65. After his sister lent him $2.50, he had enough to buy exactly 10 pens.

(a) What was the usual price of the pen?

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

Ans: (a)_____ [3m]

(b)_____ [2m]

End of Paper

·(Go on to the next page)

ANSWER SHEET

EXAM PAPER 2013

SCHOOL : ROSYTH PRIMARY SCHOOL
LEVEL : PRIMARY 5
SUBJECT : MATHS
TERM : CA2

Booklet A

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

16. 6.035
17. 7
18. $1\frac{11}{12}$
19. 108.1
20. 120
21. 104
22. 76%
23. 30%
24. 160
25. 12
26. 9
27. 28
28. $2\frac{5}{12}$
29. 60
30. 80

PAPER TWO:
1. 48x4=192
192/6=32
48-32=16

2. A:B:C
   (4:5)x3
   (3: :4)x4
   =12:15:16
   1U=64÷16=4
   15U=4x15=60

3. BOTH OF THEM= 62.6=125.2
   125.2-4.8=120.4
   K=120.4/2=60.2
   J=60.2+4.8=65

4. 580/5=116
   116/4=29
   GIRLS=29x5=145

5. J=20
   SISTER=40%x20=8
   20-8=12
   25%x12=3

6. 174/(20+9)=6
   12+20=32
   32x6=192

7. NEW=83x7=581
   BEFORE=77x5=385
   DIFFERENT=581-385=196
   ONE=196÷2=98

8. 850/4=212.50
   850-212.5=637.50
   637.50÷5=127.5
   REMAINDER=5-3=2
   127.5x2=255
   SHOE=255-161.25=93.75

9. 40%x85%=34%
   60%x85%=51%
   (51%÷1%)=51

255/51= 5
5x100=500

10. E=24
D=24+8-15=17
C=17+9-12=14
B=14+2-7=9

11. 130%x144=187.20
30%x144=43.20
144+43.2=187.20

12. DIFFERENCE=7-2=5
=28-8=20
(9:5:4)x5=45:25:20
51/(25-8)=3
8x3=24
24x0.5=12
13. (10A+8P=9.80)x3
30A+24P=29.40
(7A+3P=5.30)x8
56A+24P=42.40
50-30A=42.40-29.40
26A=13
A=0.5
6A=0.5x6=3
10A=5
5+8P=9.8
8P=4.80
P=0.06
7P=0.06x7=4.20
6A+7P=3+4.2
=7.2

14. BEFORE:
L:F
3:4
9:12

After
L:F

1:2
7:14

14-12=2
2u ---- 66
1u --- 33
9u --- 297

15. G --- 7u
    D----2u
    C----7u +104
    D+C ---- 9u +104

    35u --- 9u +104
    26u ---- 104
    1u ---- 4

    Total = 16 x 4+104 = 168

16. A:B+C
    3: 8
    51:136

    B:C
    7:10
    36:80

    1u --- 467.50÷187 = 2.50
    80u ----- 200
17. 1/6 = 3/18

     8-2 = 6u
    6u --- 48
    1u --- 8

    18+8 =26u
    26u --- 208

18. 5.65-2.50=3.15
    3p --- 3.15
    1p --- 1.05

1.05+0.30=1.35
1.05x10=10.50
10.50-2.50=8

Name:_____ (   )   Class: Primary 5 ____

Date: 10 May 2013   Duration of Booklet A & B: 50 min

INSTRUCTIONS TO CANDIDATES

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

Questions 1 to 10 carry 1 mark each. Question 11 to 15 carry 2 marks each.
Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the
Optical Answer Sheet (OAS).   (20 marks)

1.   In the number 1 389 472, the digit ____ is in the hundred thousands place.

      1)   9
      2)   8
      3)   3
      4)   4

2.   The price of an apartment is $620 000 when rounded off to the nearest
      $10 000. Which of the following could be the original price of the
      apartment?

      1)   614 499
      2)   619 445
      3)   625 000
      4)   625 499

3.   Express 32 seconds as a fraction of 2 minutes.

      1) $\dfrac{1}{16}$

      2) $\dfrac{1}{8}$

      3) $\dfrac{4}{25}$

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

4. The breadth of a rectangle is $\frac{2}{3}$ as long as its length. Find the perimeter of the rectangle if the breadth is 18 cm long.

1) 12 cm
2) 45 cm
3) 60 cm
4) 90 cm

5. At present, Peter and Nikhil are 9 and 13 years old respectively. What will be the ratio of Peter's age to Nikhil's age be in 5 years' time?

1) 3 : 7
2) 7 : 9
3) 13 : 14
4) 9 : 18

6. Find the value of 102 - 24 ÷ 6 + 7.

1) 6
2) 20
3) 91
4) 105

7. In the triangle below, XY = 7 cm, XZ = 10 cm and WY = 4 cm. Find the area of triangle XYZ.
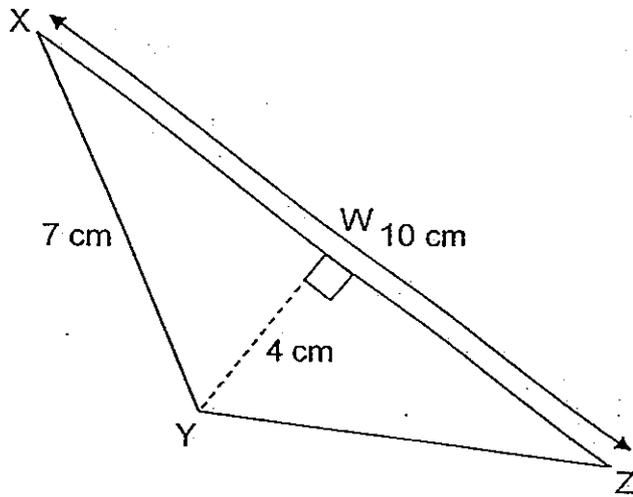
(1)   14 cm^2

(2)   20 cm^2

(3)   28 cm^2

(4)   40 cm^2

8.   Equal amount of water was poured into 2 empty tanks A and B as shown below. If tank A is half-filled, what was the height of the water level in tank B?
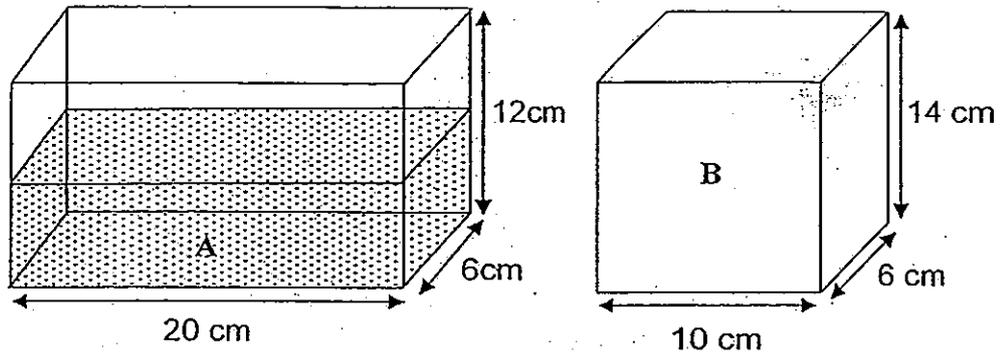
1)   6 cm
2)   7 cm
3)   12 cm
4)   14 cm

9.   Joshua bought 12 apples at 3 for $1.00 at the first stall. At the second stall, he bought 8 apples at 4 for $1.50. Find the total cost of the apples bought.

1) $ 3.00
2) $ 6.00
3) $ 7.00
4) $ 9.00

5

10. Julie's mother bought 5 kg of rice. She cooked 200 g of rice each day. How many days did the bag of rice last?

   1) 25
   2) 40
   3) 250
   4) 1 000

11. John is 21 years older than Jane. If Jane is $\frac{4}{7}$ of John's age, find their total age.

   1) 28
   2) 33
   3) 49
   4) 77

12. The perimeter of a badminton court is 32 m. If the ratio of its breadth to its length is 1 : 3, what is the area of the badminton court?

   1) 12 m^2
   2) 24 m^2
   3) 48 m^2
   4) 96 m^2

13. Joe and Kiren shared a sum of money in the ratio of 4 : 3. After receiving $30 each from their mother, the ratio becomes 14 : 11. Find the amount of money Joe had at first.

1) $30

2) $60

3) $180

4) $375

14. ABCE is a rectangle, find the area of triangle ACD.
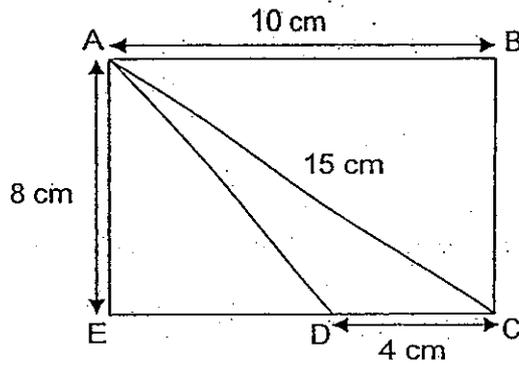
1) 16 cm^2

2) 30 cm^2

3) 32 cm^2

4) 60 cm^2

15. Aaron has $14 more than Victor. Aaron has twice as much money as Gideon. The three children have $86 altogether. How much money does Victor have?

1) $ 26
2) $ 29
3) $ 43
4) $ 50

Anglo-Chinese School (Primary)

MID-YEAR EXAMINATION 2013
MATHEMATICS
PAPER 1 (BOOKLET B)
PRIMARY FIVE

Name: _____ (   )   Class: Primary 5 ____

Date: 10 May 2013   Duration of Paper Booklet A & B: 50 min

_____
Parent's/Guardian's signature

INSTRUCTIONS TO CANDIDATES

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

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

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. Give your answers to the units stated and to its simplest form whenever necessary.   (10 marks)

16.   Write six million, thirty thousand and forty-two in numerals.

Answer: _____

17.   What is the value of $\dfrac{5}{9} + \dfrac{5}{6}$? Express your answer as a mixed number.

Answer: _____

18.   Complete the number pattern below.

450 572, 450 072, 449 472, | ? | , 447972

Answer: _____

19. Jane, Peter and Sam shared some paper clips in the ratio 6 : 4 : 9. Sam had 72 ~~marbles~~ paperclips. How many more paper clips did Jane have than Peter?

Answer: _____

20. There were 25 drivers and 125 mechanics in a driving championship. What fraction of the people in the championship were drivers? (Give your answer in its simplest form)

Answer: _____

21. The diagram below, not drawn to scale, shows a rectangle with a length of 8 cm and breadth of 6 cm. Find the total shaded area.

Answer: _____ cm²

3
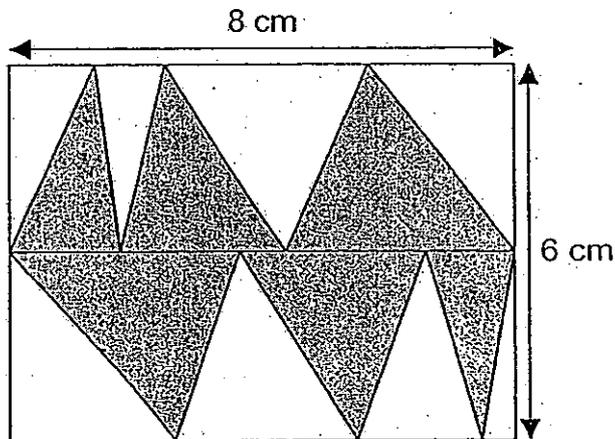
22. Mr Boon had 100 watermelons. He sold 32 of them at $4 each and the remaining watermelons at $6 each. How much money did he receive from selling all the watermelons?

Answer: $ _____

23. James had twice as many chocolate cookies as William. After James bought 12 and William bought 30 chocolate cookies, they had an equal number of chocolate cookies. How many chocolate cookies did James have in the end?

Answer: _____

24. Peter ate $\frac{3}{8}$ of a cake and gave the rest equally to 10 friends. What fraction of the cake did each friend get?

Answer: _____

4

25. In the figure below, PQRS is a square. The length of QS is 18 cm and O is the centre of the square. Find the area of triangle QRS.
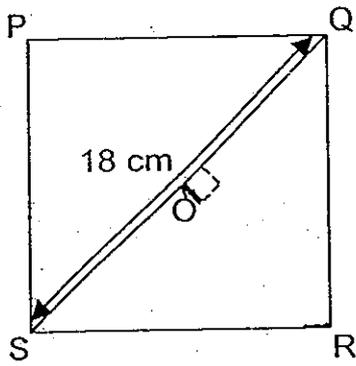
Answer: _____ cm²

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

26.   The ratio of the number of red beads to the number of blue beads is 5 : 7.
      The ratio of the number of blue beads to the number of green beads is
      2 : 5. If there are 70 green beads, how many red beads are there?

                                        Answer: _____

27.   Betty has $46 less than Raphael. Howin has $248 more than the total
      amount that Betty and Raphael have. Howin has $532 more than Betty.
      How much money has Howin?

                                        Answer: $ _____

28. Figure X shows a rectangular cardboard 45 cm by 32 cm. What is the maximum number of right-angled triangles (as shown in Figure Y) that can be cut from it?

| 32 cm |

45 cm

Figure X

4 cm

4 cm
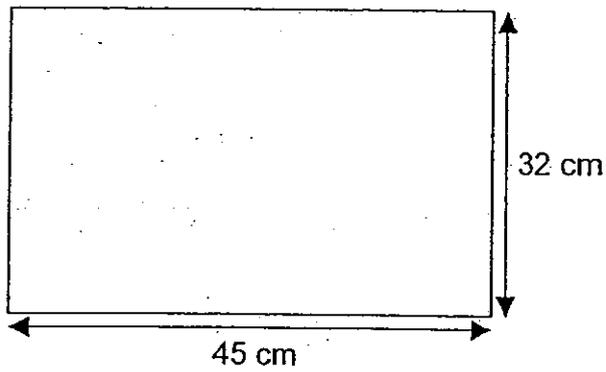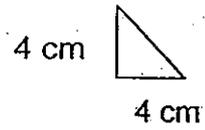
Figure Y

Answer: _____

29. Correction tapes were sold at $2 each at a bookshop. Ringo bought $\frac{1}{4}$ of the correction tapes sold at the bookshop. He gave the cashier $50 and was given $24 in change. How many correction tapes were left in the shop?

Answer: _____

30. A square based container of length 12 cm has a height of 20 cm. If it is $\frac{2}{3}$ filled with water, find the volume of water in the container in litres.
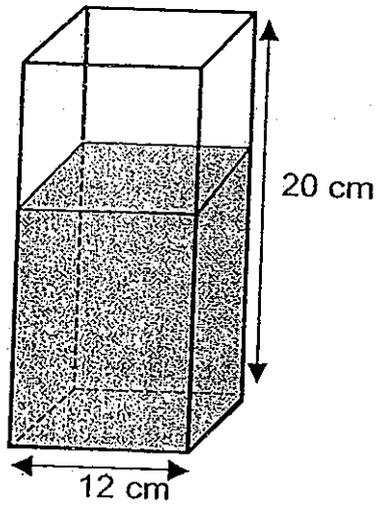
Answer: _____

Anglo-Chinese School (Primary)
MID-YEAR EXAMINATION 2013
MATHEMATICS
PAPER 2
PRIMARY FIVE

Name: _____ (   )   Class: Primary 5 ____

Date: 10 May 2013   Duration of Paper 2: 1h 40 min

_____
Parent's/Guardian's signature

INSTRUCTIONS TO CANDIDATES

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

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

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

1. Peter spent $\frac{2}{5}$ of his money on some clothes. He spent $\frac{1}{2}$ of the remainder on some shoes. If he had $75 left, how much did Peter have at first?

    Answer: $ _____

2. Mike spent $\frac{3}{8}$ of his money on a watch which cost $45. If he had bought a jacket instead, he would have spent $\frac{1}{3}$ of his money. How much did the jacket cost?

    Answer: $ _____

2

3. The ratio of the number of Richman's cards to the number of Elijah's cards was 2 : 5. After Richman gave $\frac{1}{4}$ of his cards to Elijah, he was left with 24 ~~stamps~~ *cards*. How many cards did Elijah have in the end?

Answer: _____

4. Ken had some strawberries in a carton. When the strawberries are packed into boxes of 10, there are 6 strawberries leftover. When the strawberries are put into boxes of 8, there are 4 strawberries leftover. What is the smallest possible number of strawberries in the carton?

Answer: _____

5. In the figure below, ACE is a right-angled triangle. BCDF is a rectangle with area 30 cm^2. What fraction of the figure is **unshaded**?

10 cm

A

B   F

30 cm²

C   D   E

12 cm
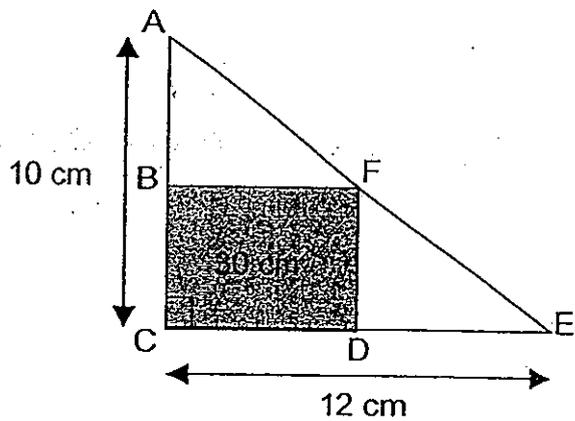
Answer: _____

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

6. Leroy and Jane had 152 curry puffs altogether. After Leroy gave away 20 of his curry puffs and Jane gave away $\frac{1}{6}$ of her curry puffs, they had the same number of curry puffs left. How many curry puffs did Leroy have in the beginning?

Answer: _____

7. Sherman is now 8 years old and his mother is 44 years old. In how ,many years time will Sherman be $\frac{2}{5}$ as old as his mother?

Answer : _____ [3]

5

8. In a school funfair, each boy was given 5 tickets while each girl was given 4 tickets. The number of boys was $\frac{1}{5}$ of the number of girls and the total number of tickets given out was 800. How many girls were there at the funfair?

Answer: _____[3]

9. Daisy bought 4 similar caps and 3 similar T-shirts for $120. If she bought 3 similar caps and 4 similar T-shirts, she would pay $5 more. What was the cost of 1 cap?

Answer: _____[3]

10. A value meal consists of a cheeseburger, a cup of corn and a packet of milk. The cheeseburger costs $1.80 more than the cup of corn. The cup of corn costs $0.70 more than the packet of milk. The total cost of 5 sets of the value meal is $35.50.

(a) Find the cost of a cup of corn.

(b) Find the cost of 5 cheeseburgers.

Answer: (a) _____ [2]

(b) _____ [1]

11. Sally has some coins in her coin bank. There are twice as many fifty-cent coins as twenty-cent coins. How many fifty-cent coins are there in the coin bank if all the coins in the coin bank add up to $96?

Answer: _____ [4]

12. The number of erasers Jay had to the number of erasers Ray had was 7 : 5. After Ray gave away 40 erasers, the ratio of the number of erasers Jay had to the number of erasers Ray had become 3 : 1. How many erasers did both of them have altogether in the end?

Answer : _____ [4]

13. At an exhibition, $\dfrac{2}{7}$ of the visitors were children. The ratio of the number of men to the number of women was 3 : 7. There were 120 more women than children. What is the total number of visitors to the exhibition?

Answer : _____ [4]

14. Container A measuring 15 cm by 12 cm by 30 cm is filled with water to the brim. Container B is an empty rectangular container with base 25 cm by 9 cm. Water is then poured from container A into container B until the water level in both containers is the same. Find the height of water in container B. (Give your answer correct to 1 decimal place.)
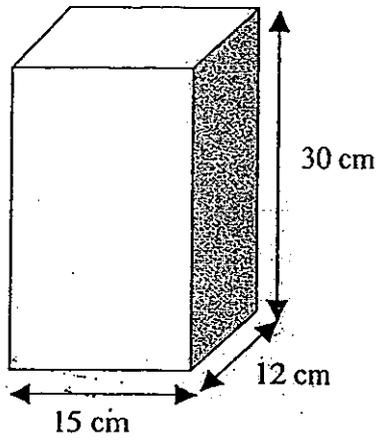
Container A
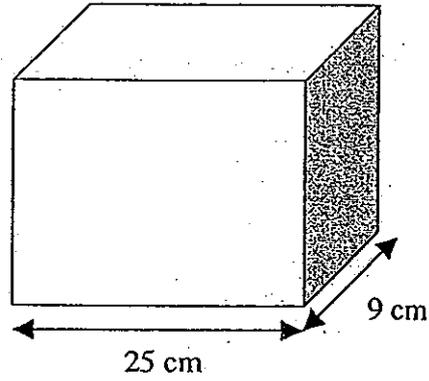
Container B

Answer: _____ [4]

11

15. A rectangular piece of paper is folded to form the shape below. The perimeter of the piece of paper is 80 cm.

(a) Find the width of the piece of paper

(b) Find the total area of the shaded parts.

15 cm

Answer: a)_____2)

b) _____ 2]
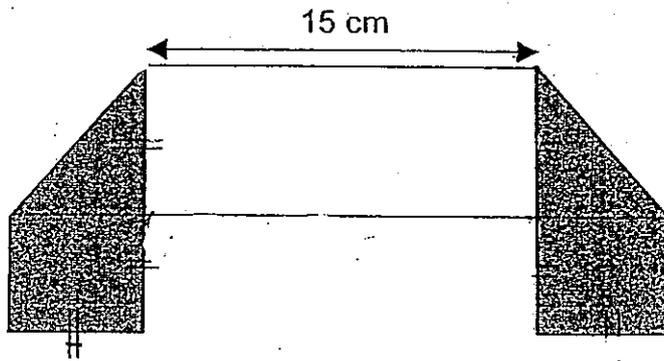
12

16. Charles, Dawn, Esther and Francis collect stamps. Charles has 80 stamps and Dawn has 160 more stamps than Francis. The number of stamps that Dawn has is $\frac{1}{2}$ the total number of stamps that Charles, Esther and Francis have. The number of stamps that Esther has is $\frac{3}{4}$ the total number of stamps that Charles, Dawn and Francis have. How many stamps does Francis have?

Answer:_____ [5]

17. John was sitting for a Mathematics test which consisted of some questions. In the first 20 minutes, he had completed $\frac{1}{4}$ of the test. In the next hour, he had completed another 33 questions and the ratio of the number of questions that were answered to that were unanswered became 4 : 1. How many questions were there in the test?

Answer: _____ [5]

18. A farmer had the same number of sheep, ducks and cows at first. After 75 cows, some sheep and ducks were sold, there were 170 animals left. There were twice as many sheep as ducks left. The number of cows left was 30 fewer than the number of sheep left.

a) How many ducks were left?

b) How many animals were there at first?

Answer: a) _____ [3]

b) _____ [2]

End-of-Paper

15

ANSWER SHEET

EXAM PAPER 2013

SCHOOL : ACS PRIMARY SCHOOL
LEVEL : PRIMARY 5
SUBJECT : MATHE
TERM : SA1

Booklet A

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

16. 6030042

17. $1\frac{7}{18}$
18. 448772
19. 16
20. 1/6
21. 24
22. 536
23. 48
24. 1/16
25. 81
26. 770
27. 176
28. 176
29. 39
30. 1920

Paper 2

1. $75 \div 3 = 25$
   $25 \times 10 = 250$

2. $45 \div 9 = 5$
   $5 \times 8 = 40$

1

3. R:E
   2:5
   24÷3=8
   8x11=88

4. 10: 10, 20, 30, 40,
   +6: 16, 26, 36, 46
   8: 8, 24, 30,
   +4: 12, 20, 28, 36
   Ans: 36

5. ½ x 10 x 12 = 60
   60-30=30
   30/60 = ½

6. 152-20=132
   6+5=11
   132÷11=12
   12x5=60
   60+20=80

7. 3u --- 44-8=36
   1u --- 12
   12x2=24
   24-8=16

8. 5u x 4 = 20
   1u x 5 = 5
   20+5=25
   25u ---- 800
   1u --- 32
   5u --- 160

9. 4C + 3T = 120
   3C+4T=125

7C+7T = 245
1C+1T = 35
 3C+3T = 105
 1C=15

2

10. A. $35.5 \div 5 = 7.10$
    $0.7 \times 2 = 1.4$
    $1.4 + 1.8 = 3.2$
    $7.1 - 3.2 = 3.9$
    $3.9 \div 3 = 1.30$
    $1.3 + 0.7 = 2.0$
    B. $2 + 1.8 = 3.80$
    $3.80 \times 5 = 19$

11. $2 \times 50 = 100$
    $100 + 20 = 120$
    $9600 \div 120 = 80$
    $80 \times 100 = 8000$
    $8000 \div 50 = 160$

12. J:R
    7:5
    21:15

    3:1
    21:7

    8u --- 40
    1u --- 5
    28u --- 140

13. M : W : C
    3 : 7 : 4

    3u --- 120
    1u --- 40
    14u --- 560

14. 180:225
    4:5

    9u --- 15x12x30=5400
    1u --- 600
    A: 4u --- 2400

3

B: 5u --- 3000
2400÷180=13.3cm
3000÷225=13.3cm

15. A. Perimeter 80cm --- 30÷10
10u --- 80-30=50
1u --- 5

B. 1 square --- 5x5=25
2 square --- 50
1 triangle --- ½ x5x5 = 12.5
2 triangle --- 25
Total: 50+25=75

16. D : C+E+F
1 : 2

E : C+D+F
3 : 4
D : C+D+F
3x3 : 4x3
9 : 12
Total --- 21u
2u --- 80
1u --- 40
7u -160 = 120

17. 4x5=20
1x5=5
4x4=16
16-5=11
11u --- 33
1u --- 3
20u --- 60

18. A. 170+30=200
2+1+2=5
200÷5=40
B. 2x40-30=50
50+75=125
125x3=375

CATHOLIC HIGH SCHOOL

MID - YEAR EXAMINATION 2013

MATHEMATICS

PRIMARY 5

PAPER 1

(BOOKLET A)

Name : _____ (   )

Class: Primary 5 _____

Date: 20 May 2013

15 questions

20 marks

Total Time for Booklets A and B: 50 min

Booklet A : Page 1 to 5

INSTRUCTIONS TO CANDIDATES

Do not open this booklet until you are told to do so.

Follow all instructions carefully.

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

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

Answer all questions.

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

1.   What is the place value of the digit 9 in 3 798 000?

       (1)   tens

       (2)   hundreds

       (3)   thousands

       (4)   ten thousands

2.   60 thousands + 6 thousands + 6 ones = _____.

       (1)   60 606

       (2)   66 006

       (3)   606 006

       (4)   606 606

3.   Which one of the following numbers has the value of 756 000 when rounded off to the nearest thousand?

       (1)   755 268

       (2)   756 268

       (3)   756 628

       (4)   756 826

4. The diagram shows part of a scale.

| | | | | | | | | | | | | | | | | | |
2   3   ↑   4   5
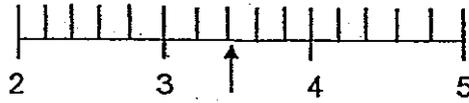
Which one of the following is closest to the reading indicated by the arrow?

(1)   3.2

(2)   3.3

(3)   3.4

(4)   3.6

---

5. Which one of the following has the same value as $7\frac{1}{4}$?

(1)   7.14

(2)   7.15

(3)   7.25

(4)   7.41

---

6. Eddy had $1\frac{3}{5}$ m of rope. He used $\frac{1}{3}$ m of the rope. How much rope was left?

(1) $1\frac{4}{15}$ m

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

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

(4) $1\frac{14}{15}$ m

---

7. $\frac{2}{5}$ of a class were boys and the rest were girls. Find the ratio of the number of boys to the number of girls in the class.

    (1)   2 : 3

    (2)   2 : 5

    (3)   3 : 2

    (4)   3 : 5

---

8. $\frac{3}{9} + \frac{1}{9} = \frac{1}{9} \times \boxed{?}$

    (1)   1

    (2)   2

    (3)   3

    (4)   4

---

9. Given that the base of triangle ABC is side AB, identify its height.

    (1)   AE

    (2)   BC

    (3)   AC

    (4)   CD

---
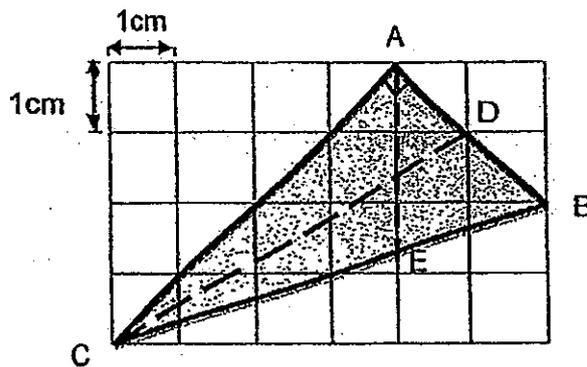
10. Find the product of $\frac{3}{8}$ and $\frac{2}{9}$.

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

    (2) $\frac{5}{17}$

    (3) $1\frac{11}{16}$

    (4) $\frac{43}{72}$

---

11. Mary has thrice as many stamps as Betty and twice as many stamps as Sam. What is the ratio of the number of stamps Sam has to the total number of stamps Mary and Betty has?

    (1)   3 : 8

    (2)   3 : 11

    (3)   8 : 3

    (4)   11 : 3

---

12. Which 3 of the following points, A, B, C, D, E and F would form another triangle of the same area as triangle ABE?
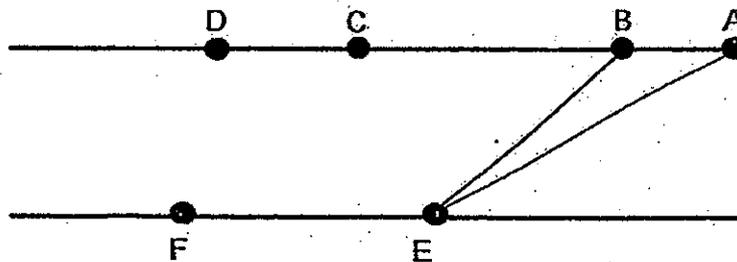
    (1)   Triangle ABF

    (2)   Triangle BCE

    (3)   Triangle CDE

    (4)   Triangle CDF

13. A rope was cut into two pieces in the ratio 3 :10.
The shorter piece was 6 m long. Jack and Shawn shared the longer piece in the ratio 2 : 3. What was the length of the rope that Jack received?

    (1)   20 m

    (2)   12 m

    (3)   8 m

    (4)   4 m

---

14. $\frac{2}{3}$ of the area of a square is the same as $\frac{1}{2}$ of the area of a circle.
Express the area of the square as a fraction of the area of the circle.

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

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

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

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

---

15. Joshua mixed some syrup with water to make orange juice. The ratio of the amount of syrup used to the amount of water used was 2 :3.
He used 8 ℓ of syrup. How many litres of the orange juice did Joshua prepare?

    (1)   20 ℓ

    (2)   12 ℓ

    (3)   8 ℓ.

    (4)   4 ℓ

End of Booklet A

(Go on to Booklet B)

CATHOLIC HIGH SCHOOL

MID - YEAR EXAMINATION 2013

MATHEMATICS

PRIMARY 5

PAPER 1

(BOOKLET B)

Name :_____ (   )

Class: Primary 5 _____

Date: 20 May 2013

Booklet A	20
Booklet B	20
Total	40

15 questions

20 marks

Total Time for Booklets A and B: 50 min

Booklet B : Page 6 to 12

INSTRUCTIONS TO CANDIDATES

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

Follow all instructions carefully.

Show your working clearly as marks are awarded for correct working.

Write your answers in this booklet.

You are not allowed to use a calculator.

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 figures are not drawn to scale.

(10 marks)

16. Write the following in figures.

Two million, six hundred thousand and forty-nine

Ans: _____

17. Express 6.75 as a mixed number in the simplest form.

Ans: _____

18. Find the missing number in the box.

$10 : 2 = \boxed{?} : 3$

Ans: _____

(Go on to the next page)

- 6 -

19. Find the value of $48 \div (8 - 2) + 3 \times 9$.

Ans: _____

20. Shade two more squares in the following figure such that the line CD is the line of symmetry.
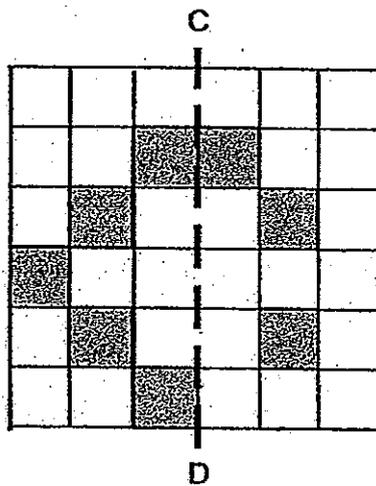
21. There were 11 girls and 15 boys at a party. What fraction of the children at the party were boys?

Ans: _____

22. Using all the digits **5, 3, 0, 8**, form the smallest possible four digit odd number. Each digit can only be used once.

Ans: _____

23. The population of Town X, when rounded off to the nearest thousand, was 13000. What could be the largest possible number of the population of Town X?

Ans: _____

24. Rectangle ABCD measures 12 cm by 8 cm. Find the area of the shaded triangle.

Ans: _____ cm²

-8-
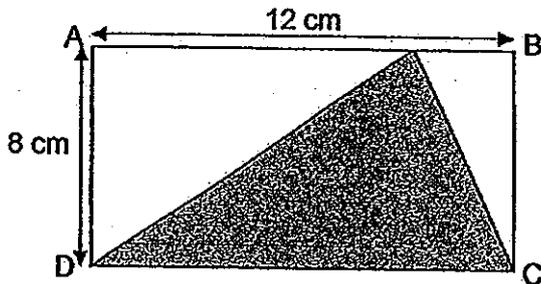
25. Dylan jumped a distance of $1\frac{3}{4}$ m in a competition. Gabriel's jump was twice as far as Dylan. How far did Gabriel jump? Express your answer as a mixed number in the simplest form.

Ans: _____m

Total marks for questions 16 to 25

SCORE
(Q16-25):

- 9 -

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. Express your answer in simplest form.

(10 marks)

26.   Express $\frac{5}{9}$ as a decimal, correct to 2 decimal places.

Ans: _____

27.   Ben and Sam shared a pizza. Ben ate $\frac{1}{3}$ of the pizza and gave $\frac{1}{4}$ of the remainder to Sam. What fraction of the pizza was left? Express your answer in the simplest form.

Ans: _____

(Go on to the next page)

28. Zachary has more marbles than Samuel. The ratio of the sum of their marbles to the difference in the number of their marbles is 11 : 3. Find the ratio of Zachary's number of marbles to Samuel's number of marbles.

Ans: _____

29. Rectangle ABCD has an area 18 m²

If AD is $\frac{1}{3}$ of AF, find the area of rectangle ABEF.

Ans: _____ m²

- 11 -
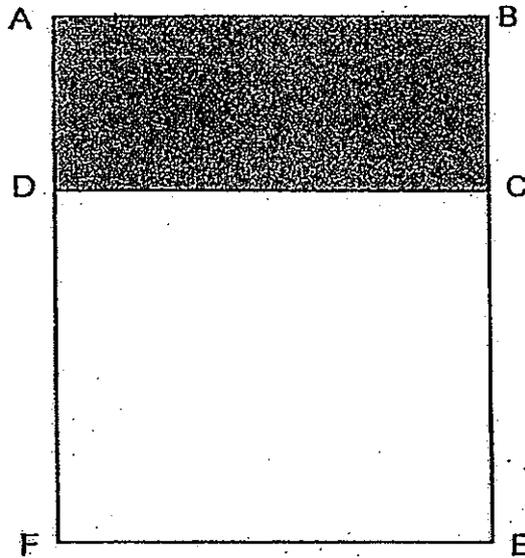
30. How many more circles must be shaded so that the ratio of the number of unshaded circles to the total number of circles is 1 : 3 ?
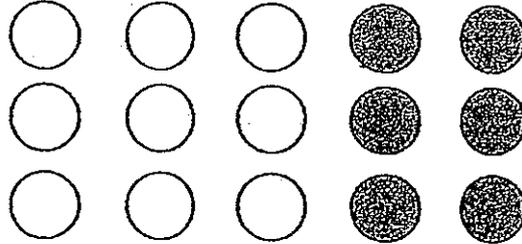
Ans: _____

___

End of Paper 1

Total marks for questions 26 to 30

- 12 -

CATHOLIC HIGH SCHOOL

MID - YEAR EXAMINATION 2013

MATHEMATICS

PRIMARY 5

PAPER 2

Name :_____(   )

Class: Primary 5_____

Date: 20 May 2013

Duration: 1 h 40 min

Parent's Signature:_____

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

There are 13 pages in this booklet.

INSTRUCTIONS TO CANDIDATES

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

Follow all instructions carefully.

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 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. Ernest bought 53 kg of rice. He packed the rice equally into 5 bags. What is the mass of each bag of rice?

   Round off your answer to the nearest whole number.

   Ans: _____kg

2. Find the area of the shaded triangle ABC.

   Ans: _____cm²

(Go on to the next page)

1
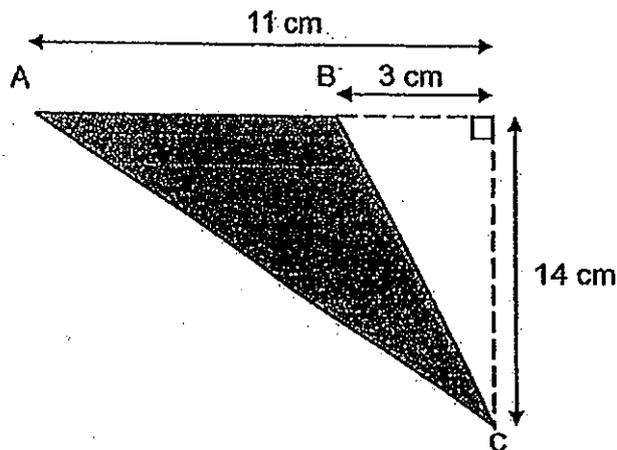
3. Sam had $\frac{3}{4}$ ℓ of water. He poured the water into cups of $\frac{1}{8}$ ℓ each. How many cups could he fill?

Ans: _____

4. Ray took $1\frac{1}{2}$ h to finish a marathon. Ivan's timing was $\frac{3}{4}$ of Ray's timing.
How long did Ivan take to finish the marathon?
Express your answer as a mixed number in the simplest form.

Ans: _____ h

(Go on to the next page)

2

5. Leslie has 240 stamps. He has $\frac{3}{4}$ as many stamps as Steven. How many stamps do they have altogether?

Ans: _____

(Go on to the next page)

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. Peggy has twice as many erasers as John. Debbie has thrice as many erasers as Peggy. Debbie has 40 erasers more than John. How many erasers do the 3 children have altogether?

Ans: _____ [3]

7. In a bag, there were some black and white stickers in the ratio 4 : 7. After 42 white stickers were removed from the bag, the ratio of the number of black stickers to the number of white stickers became 16 : 7. Find the number of white stickers in the bag at first.

Ans: _____ [3]

(Go on to the next page)

4

8. Joshua and Nicolas had 50 and 90 cards respectively. After each of them gave away an equal number of cards, Nicolas had thrice as many cards as Joshua. How many cards did they give away altogether?

Ans: _____ [3]

9. 1 file and 1 notebook cost $10. 1 file and 1pen cost $6. Each notebook costs thrice as much as a pen. How much does 1file cost?

Ans: _____ [3]

(Go on to the next page)

5

10. The table below shows the price of roses on a normal day and on Valentine's Day.

	Normal Day	Valentine's Day
Roses (per stalk)	$1.20	$2.80

Mary bought roses on a normal day and on Valentine's Day.

a) How much more does Mary need to pay for 1 dozen stalks of roses on Valentine's Day than on a normal day?

b) Mary has $50 and she decides to spend it all on roses, what is the maximum number of stalks of roses that she can buy on a normal day?

Ans: a) _____[2]

b) _____[1]

11. Henry and Ryan had the same number of marbles at first. After Henry gave away 12 marbles and Ryan gave away 36 marbles, Henry had 4 times as many marbles as Ryan. How many marbles did Ryan have at first?

Ans: _____ [3]

(Go on to the next page)

6

12. Black and white triangles are used to form a sequence of patterns. The first
three patterns are shown below.
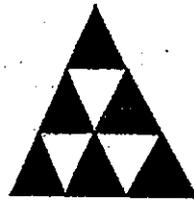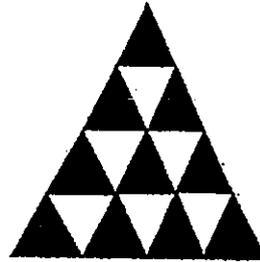
Pattern 1   Pattern 2   Pattern 3

Pattern Number	Number of black triangles	Number of white triangles	Total number of triangles
1	3	1	4
2	6	3	9
3	10	6	16

a)   Find the number of white triangles in Pattern 4.
b)   Find the number of black triangles in Pattern 4.
c)   In which pattern number will there be a total of 144 triangles?

Ans: a) _____[1]

Ans: b) _____[1]

Ans: c)_____ [2]

(Go to the next page)

7

13. The cost of a birthday present was shared between Benjamin and Christopher. At first, Benjamin paid $\frac{2}{3}$ of what Christopher paid. When Benjamin paid $50 more, he ended up paying $\frac{4}{5}$ of what Christopher paid. How much was the cost of the present?

Ans: _____ [4]

8

14. Shaun spent $360 of his pocket money on a bicycle, $\frac{2}{3}$ of the remainder on food, and saved the rest. Given that he saved $\frac{1}{5}$ of his pocket money, how much was his pocket money?

Ans: _____ [4]

(Go on to the next page)

9

15. Sarah packed some chocolates in bags of 8 and some sweets in bags of 4. She sold each bag of chocolates at $2 and each bag of sweets at $5.50. She sold 8 times as many bags of sweets as chocolates and collected a total of $3128 from the sale of sweets and chocolates. How many sweets and chocolates did she sell in all?

Ans: _____ [5]

16. Alex, Ben and Caleb had some stamps. Alex had 90 stamps more than Ben, and Ben had 10 stamps more than Caleb. After Alex had given Ben 95 of his stamps and Caleb bought some stamps, Alex and Caleb had the same number of stamps while Ben had thrice as much as either of them.

a)   How many stamps did Caleb at first?
b)   How many stamps did they have altogether at first?

Ans: a) _____ [3]

Ans: b) _____ [2]

(Go on to the next page)

11

17. Mr Lee had a sum of money. On Monday, he spent $\frac{1}{5}$ of his money and then lost

a $2 note. On Tuesday, he spent $\frac{1}{3}$ of his remaining money on 3 identical bags

of rice. On Wednesday, he bought another 4 such bags of rice. He had $21.60

left in the end. Find the sum of money he had at first.

Ans: _____ [5]

18. At a carnival, the ratio of the number of males to the number of females was

6 : 5. There were twice as many girls as women. There were $\frac{1}{2}$ as many boys as men. There were 80 more girls than boys.

a)   How many people were there at the carnival?

b)   After some time, 90 men left the carnival. How many women must join the carnival so that there is an equal number of men and women in the end?

Ans: a) _____ [3]

Ans: b) _____ [2]

End of Paper 2

13

ANSWER SHEET

EXAM PAPER 2013

SCHOOL : CATHOLIC HIGH PRIMARY SCHOOL
LEVEL : PRIMARY 5
SUBJECT : MATHEMATICS
TERM : SA1

Booklet A

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

16. 2600049

17. $6\frac{3}{4}$

18. 15

19. 35

20.

21. 15/26

22. 3085

23. 13499

24. 48

25. $3\frac{1}{2}$

26. 0.56

27. ½

28. 7:4

29. 54

30. 4
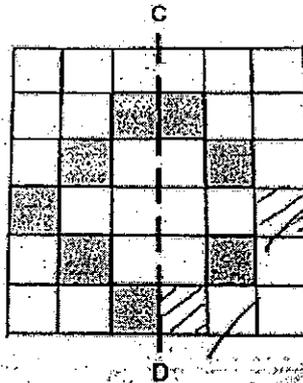
Paper 2

1. $53 \div 5 = 10.6$

   10.6 round off to 11kg

2. $11-3=8$
$\frac{1}{2} \times 8 \times 14 = 56$

3. $\frac{3}{4} = 6/8$
$6/8 \div 1/8 = 6$

4.
$1\frac{1}{2} = 1\frac{2}{4}$

$1\frac{2}{4} \div 4 = \frac{3}{8}$

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

5. $240 \div 3 = 80$
$80 \times 4 = 320$
$320 + 240 = 560$

6. $40 \div 5 = 8$
$8 \times 9 = 72$

7. B:W
4:7
14:28

$28 - 7 = 21$
21u---42
1u---2
28u----56

8. 2u --- 40
1u---20
$50 - 20 = 30$
$30 \times 2 = 60$

9. 1F + 1N = 10
1F + 1P = 6
1N - 1P = 4
2u --- 4
1u --- 2

2

1P --- 2
6-2=4

10. A. 1.20x12=14.40
2.8x12=33.6
33.6-14.4=19.20

B. 60÷1.20=46.667
She can buy 46 roses

11. 36-12=24
24÷3=8
8+36=44

12. A. 10
B. 15
C. T --- 144
12x12=144
12-1=11

13. 2u --- 50
1u --- 25
45u --- 1125

14. 360÷2=180
180x5=900

15. 3128÷46=68
68x8x4=2176
68x1x8=544
2176+544=2720

16. A. 2u --- 90+5+5=100
1u --- 50
50-5=45

B. 5u --- 250
250-5=245

3

17. $21.60 \div 2 = 10.80$
    $10.80 \times 9 = 97.20$
    $97.20 + 2 = 99.20$
    $99.20 \div 4 = 24.80$
    $24.80 \times 5 = 124$

18. A. M : F
       6 : 5
      18 : 15
    B:M   G:W
    6:12   10:5

       10u-6u = 4u
       4u --- 80
       1u ---20
33u --- 660

B. Man : 12x20=2240
Women : 5x20=100
240-90=150
150-100=50

Name : _____ (   )

Class : Primary 5 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)
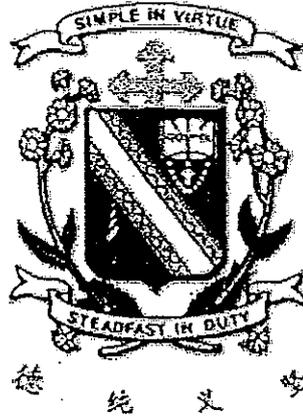
Primary 5 Mathematics

2013 Semestral Assessment One

Paper 1

Booklet A

13 May 2013

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

This booklet consists of 7 printed pages including the cover page.

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

---

1. Which one of the following has the digit 7 in the hundred thousands place?

    1) 3 604 789

    2) 4 897 036

    3) 6 379 480

    4) 8 746 093

2. What is the missing sign in the box?

    125 x 99 = 125 x 100 | ? | 125 x 1

    1) +

    2) −

    3) x

    4) ÷

3. Find the value of 48 − 4 x 2 + 8.

    1) 32

    2) 48

    3) 56

    4) 96

4. $\dfrac{6}{11} \div 12$ has the same value as

1) $\dfrac{6}{11} \times \dfrac{1}{12}$

2) $\dfrac{6}{11} \times \dfrac{12}{1}$

3) $\dfrac{11}{6} \times \dfrac{1}{12}$

4) $\dfrac{11}{6} \times \dfrac{12}{1}$

5. What is the missing fraction in the box?

$$1\dfrac{3}{5} + \boxed{\;?\;} = 5$$

1) $4\dfrac{2}{5}$

2) $3\dfrac{2}{5}$

3) $\dfrac{4}{5}$

4) $\dfrac{2}{5}$

6. Ida had $\dfrac{3}{4}$ kg of sugar. She used $\dfrac{1}{3}$ of it to bake butter cake. How much sugar had she left?

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

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

3) $\dfrac{4}{9}$ kg

4) $\dfrac{5}{12}$ kg

7. Jon had a piece of rope that was 4 m long. He cut $\frac{4}{9}$ m from each end of the rope. What was the length of the rope left?

1) $3\frac{1}{9}$ m

2) $3\frac{4}{9}$ m

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

4) $3\frac{8}{9}$ m

8. In the figure below, not drawn to scale, ABC is a triangle. Given that AB is the base, which one of the following is the height?

1) AC

2) BD

3) BE

4) CD

4
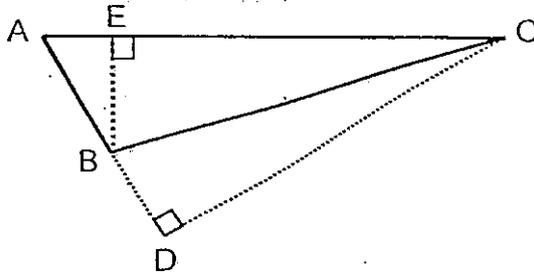
9. The table below shows the number of stickers 3 children collected.
Find the ratio of the number of stickers Charles collected to the total number of stickers Wolly and Rei collected.

Wolly	Charles	Rei
9	15	18

1) 5 : 3

2) 5 : 6

3) 5 : 9

4) 5 : 14

10. Mr Tan put some sweets in packets of 20. He gave Aston 8 such packets. Then he gave Ivy the remaining 6 packets. Find the ratio of the number of sweets Ivy received to the total number of sweets Mr Tan put into the packets.

1) 3 : 4

2) 3 : 7

3) 3 : 10

4) 3 : 14

11. Suzanne and Josephine each ate $\frac{3}{8}$ of a pizza. Terry ate $\frac{1}{5}$ of the remaining pizza. What fraction of the pizza was left?

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

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

3) $\frac{3}{10}$

4) $\frac{17}{40}$

12. Mrs Tong used $\frac{1}{6}$ kg of rice from a container to cook porridge. Then she added $1\frac{7}{8}$ kg of rice into the same container and the mass of rice became $4\frac{1}{2}$ kg. Find the mass of rice in the container at first.

1) $2\frac{1}{24}$ kg

2) $2\frac{19}{24}$ kg

3) $6\frac{5}{24}$ kg

4) $6\frac{13}{24}$ kg

13. The figure below is made up of 9 identical squares. What is the area of the shaded triangle?
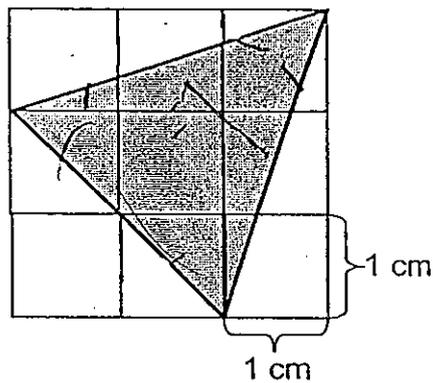
1) 2 cm²

2) $3\frac{1}{2}$ cm²

3) 4 cm²

4) $4\frac{1}{2}$ cm²

14. In the triangle ABC shown below, the shaded part is 30 cm². Find the area of triangle ABC.
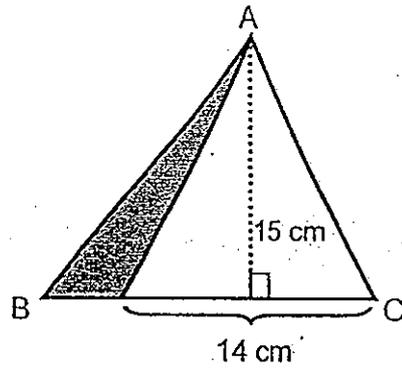
1) 105 cm²

2) 120 cm²

3) 135 cm²

4) 240 cm²

15. How many circles must be shaded so that the ratio of the number of shaded circles to the number of unshaded circles is 2 : 3?
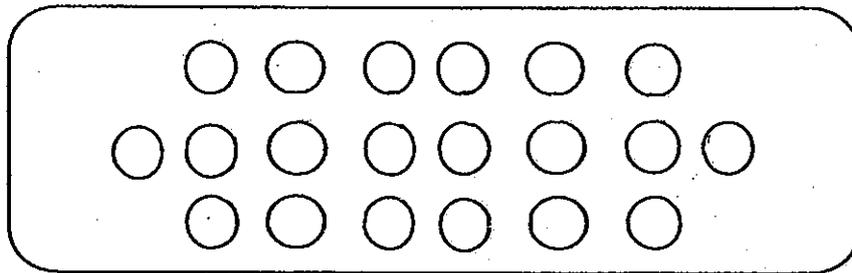
1) 2

2) 4

3) 8

4) 10

End of Booklet A

Name   : _____ (

Class : Primary 5 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)
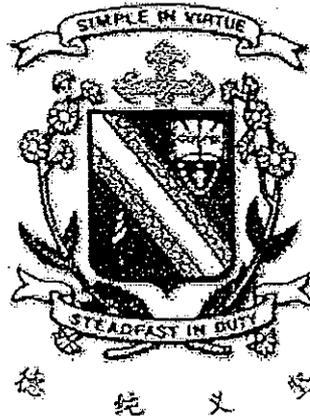
Primary 5 Mathematics

2013 Semestral Assessment One

Paper 1

Booklet B

13 May 2013

Booklet A	/ 20
Booklet B	/ 20
Total	/ 40

TOTAL TIME FOR BOOKLETS A AND B: 50 MINUTES

INSTRUCTIONS TO CANDIDATES
Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
The use of calculators is **NOT** allowed.

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

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. Express $\dfrac{7}{12}$ as a decimal correct to 1 decimal place.

Ans : _____

17. Find the sum of $\dfrac{1}{4}$ and $\dfrac{5}{9}$.

Ans : _____

18. A piece of ribbon of length 15 m is 9 times as long as a piece of string. Find
the length of the string. Leave your answer in the simplest form.

Ans : _____ m

2

19. Amina took $\frac{7}{10}$ h to complete her Chinese homework and $\frac{4}{5}$ h to complete her Science homework. What was the total time Amina took to complete her Chinese and Science homework? Leave your answer in the simplest form.

Ans : _____ h

20. The mass of a basket of fruits is $3\frac{5}{6}$ kg. The empty basket has a mass of $\frac{3}{4}$ kg. Find the mass of the fruits. Leave your answer in the simplest form.

Ans : _____ kg

21. Mdm Zhu bought $\frac{4}{7}$ kg of minced meat. She packed them into 6 equal portions and gave her daughter 4 such portions. What was the mass of minced meat her daughter receive? Leave your answer in the simplest form.

Ans : _____ kg

3
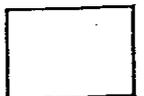
22. Find the area of triangle PQR.
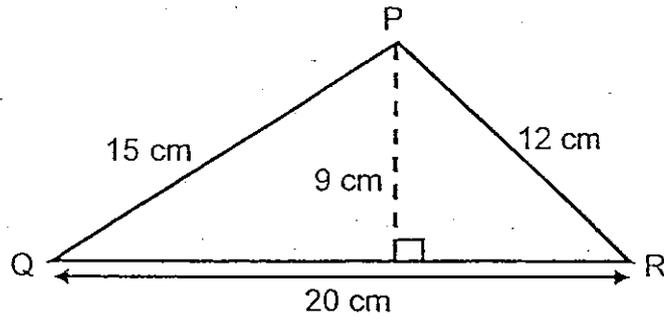
Ans : _____ cm²

23. WXYZ is a rectangle and OX = OY. If the area of A is 55 cm², find the area of B.

Ans : _____ cm²

4
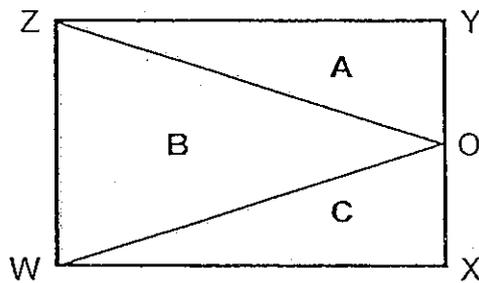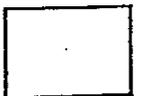
24. Find the missing number in the box below.

$$24 : 27 = \boxed{?} : 72$$

Ans : _____

25. Simplify 84 : 28.

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. Tabitha folded a piece of paper into half and cut along the dotted line as shown in Figure 1. Figure 2 shows the triangle she obtained from the cut-out. Find the area of the triangle in Figure 2.

Figure 1   Figure 2
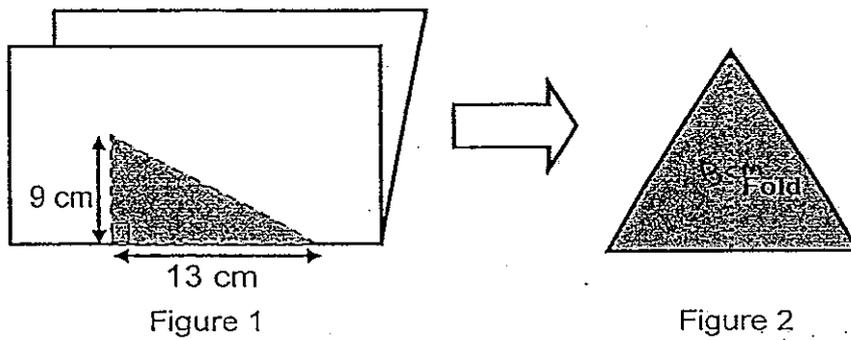
Ans : _____ cm^2

27. Mrs Chan jogged $2\frac{5}{12}$ km from her house to the park. Her son jogged $\frac{2}{3}$ km less than she did. How many kilometres did both of them jog altogether? Leave your answer in the simplest form.

Ans : _____ km

6
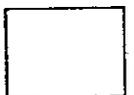
28. A painter bought 40 ℓ of paint to paint an apartment. He used $\dfrac{5}{8}$ of it to paint 4 rooms of the same size. How many litres of paint were used to paint each room?

Ans : _____ ℓ.

29. Nigel was given a number of 20-cent and 50-cent coins. He was given fewer than 9 coins altogether. What is the largest possible amount of money he was given?

Ans : $ _____

30. Jia Yu is 22 years old. She is 4 years older than Kai Kai. Find the ratio of Kai Kai's age to Jia Yu's age.

Ans : _____

End of Paper 1

Name :_____ (   )

Class : Primary 5 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

Primary 5 Mathematics

2013 Semestral Assessment One

Paper 2

13 May 2013

Paper 1	40
Paper 2	60
Total	100

TIME : 1 HOUR 40 MINUTES

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

This booklet consists of __15__ printed pages including the cover page.

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

Do not write in this space.

1. Raja and Quintus had some game cards. Quintus had 104 more game cards than Raja. After Quintus gave away 218 game cards, Raja then had 4 times as many game cards as Quintus. Find the number of game cards Quintus had in the end.

Ans: _____

2. At a sale, DVDs are sold in sets of 3. Each set cost $22. If Mr Ho has $100, what is the maximum number of DVDs he can buy?

Ans: _____

2
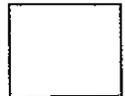
3. Fu Long had some concert tickets. He sold $\frac{1}{6}$ of the tickets to his classmates and $\frac{3}{5}$ of them to his relatives. If he had sold a total of 138 tickets, find the number of concert tickets Fu Long had at first.

Ans : _____

4. There were 24 teachers and some pupils at a school camp. Given that there were 6 teachers for every 42 pupils, find the total number of people at the camp.

Ans: _____

3
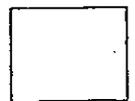
5. Hakim was reading a magazine with 99 pages. Every page of the magazine is in running order starting from 1. What is the total number of digits from page 1 to page 99?

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]**

Do not write in this space.

6. Mrs Yip bought 42 kg of salt. After filling each of the 7 identical containers completely with salt, she was left with $\frac{1}{3}$ of the original amount of salt. Find the mass of salt in each container.

Ans:_____ [3]

7. Uncle Leong filled 3 different bottles, X, Y and Z with some water. Bottle X was filled with $2\frac{7}{10}$ ℓ less water than Bottle Y and $\frac{3}{5}$ ℓ more water than Bottle Z. If the total amount of water in the 3 bottles was $8\frac{9}{10}$ ℓ, how many litres of water was there in Bottle Z?

Ans: _____ [3]

8. Amarilyn had a container with a capacity of 6 ℓ. She filled up $\frac{2}{3}$ of the container with cooking oil. Then she used $\frac{5}{6}$ of the cooking oil to fry some fish. How much cooking oil did she use? Leave your answer as a decimal correct to 2 decimal places.

Ans: _____ [3]

9. A fruiterer bought some fruits from the wholesaler. $\frac{3}{8}$ of the fruits were oranges and the rest were apples. Of the oranges he bought, 84 were rotten and were thrown away. He sold the remaining 174 oranges and all the apples. What fraction of the fruits sold were oranges?

Ans: _____ [3]

10. At a funfair, $\dfrac{5}{9}$ of the visitors were children. $\dfrac{4}{7}$ of the children were boys. If there were 1449 visitors, find the number of girls at the funfair.

Ans: _____ [3]

7

11. Mrs Thorne was born in 1978. Her daughter was born in 2012. In which year will Mrs Thorne be thrice of her daughter's age?

Ans: _____[3]

8

12. Ami read $\frac{1}{4}$ of a storybook on Friday. She read $\frac{3}{5}$ of the remaining book on Saturday.

a) What fraction of the book did Ami read on Saturday?

b) If she read 84 more pages on Saturday than on Friday, how many pages did the storybook contain?

Ans: a) _____ [1]

b) _____ [3]

13. Mr Anan sold an equal number of red files and blue files. He received a total amount of $276. Each red file cost $9.80 and each blue file cost $1.20 less than the red file. How many files did he sell?

Ans: _____ [4]

10

14. Mr Aw ordered some chicken, mutton and beef satay for a party. $\frac{3}{11}$ of the satay were mutton. He ordered 60 more sticks of chicken satay than mutton satay. If he ordered 105 sticks of beef satay, how many sticks of satay did Mr Aw order in all?

Ans: _____ [5]

15. ABDE is a rectangle of length 75 cm and breadth 30.5 cm. CE is twice of AB. Find the difference between the area of triangle BCE and triangle BDE.

E

D

A

B

53 cm

C
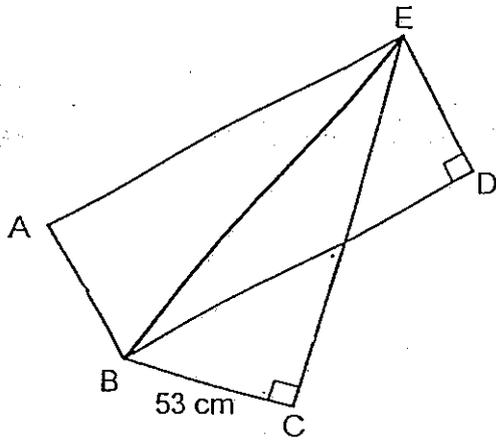
Ans: _____ [4]

16. At Goody Bookshop, there were a total of 816 mechanical pencils, pens and highlighters. The number of pens was 5 times the number of highlighters. There were twice as many pens as mechanical pencils.

a) How many pens and mechanical pencils were there altogether?

b) Goody Bookshop received $264 from the sale of all the highlighters. Find the price of each highlighter if they were all sold at the same price.

Ans : a)_____[3]

b) _____[2]

13

17. Miss Raj went shopping with her cousin. She spent $\frac{1}{3}$ of her money on a dress and $\frac{5}{12}$ of her money on a pair of shoes. She then spent $\frac{4}{9}$ of the remaining amount on lunch. If she spent $16 on lunch, how much money did Miss Raj pay for the dress?

Ans: _____ [5]

14

18. Kit had 2 pieces of wire of the same length. She bent the first piece of wire to form a rectangle as shown in the figure below. Then she bent the second piece of wire to form 2 triangles. If all the sides of the triangles are of the same length, find the total area of the two triangles.
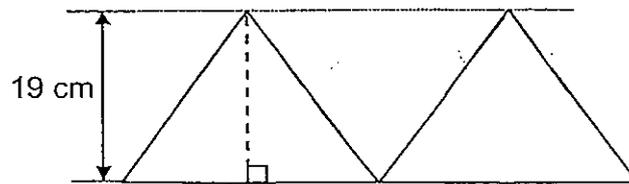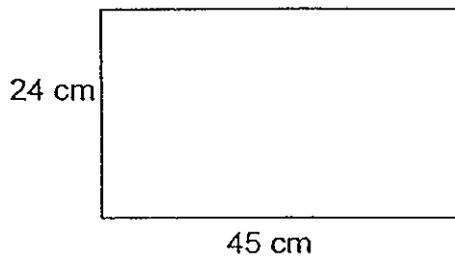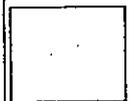
Ans: _____ [5]

End of Paper 2

15

ANSWER SHEET

EXAM PAPER 2013
SCHOOL : CHIJ
SUBJECT : PRIMARY 5 MATHEMATICS

TERM   : SA1

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

16)0.6   17)29/36   18)$1_{2/3}$ 19)1½   20)$3_{1/12}$kg

21)8/21kg   22)90cm$_2$ 23)110cm$_2$ 24)64   25)3:1

26)117cm$_2$ 27)$4_{1/6}$km   28)6.26L   29)$3.70   30)9:11

Paper 2
1)218 − 104 = 114
   114 ÷ 3 = 38 game cards

2)$100 ÷ 22 ≈ 4
   4 x 3 = 12 DVDs

3)1/6 + 3/5 = 23/30
   138 ÷ 23 = 6
   At first→6 x 30 = 180 concert tickets

4)group→24 ÷ 6 = 4
   No.perset→6 = 42 = 48
   People→48 x 4 = 192 people

5) 99 − 9 = 90
   90 x 2 = 180
   180 + 9 = 189

6) 42kg x 2/3 = 28kg
   28kg ÷ 7 = 4kg

7) 8$_{9/10}$L − 2$_{7/10}$L − 3/5L − 3/5L = 5L
   5L ÷ 3 = 1$_{2/3}$L

8) 6L x 2/3 = 4L
   4L x 5/6 = 3$_{1/3}$L
   ≈ 3.33L

9) Apples → 5/8
   174 + 84 = 258
   258 ÷ 3 = 86
   86 x 5 = 604
   174/604 = 87/302

10) 7/7 − 4/7 = 3/7
    1449 x 5/9 = 805
    805 x 3/7 = 345 girls

11)
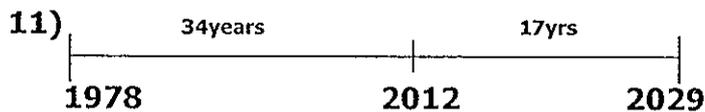
        34÷2 = 17
     ANS: 2029

12) a) 4/4 − ¼ = ¾
       3/5 x ¾ = 9/20 of the book
    b) ¼ → 5/20
       9/20 − 5/20 = 4/20 = 1/5
       84 x 5 = 420 pages

13) $9.80 + $9.80 − $1.20 = $18.40
    $276 ÷ $18.40 = 15
    15 x 2 = 30 files

14) $3/11 \times 2 = 6/11$
    $11/11 - 6/11 = 5/11$
    $60 + 105 = 165$
    $165 \div 5 = 33$
    $33 \times 11 = 363$ sticks of satay

15) CE→30.5cm $\times$ 2 = 61cm
    61cm $\times$ 53cm $\times$ ½ = 1616.5cm^2
    75cm $\times$ 30.5cm $\times$ ½ = 1143.75cm^2
    1616.5cm^2 − 1143.75cm^2 = 472.75cm^2

16) a) $816 \div 17 = 48$
       $48 \times 15 = 720$ pens and pencils
    b) $48 \times 2 = 96$
       $\$264 \div 96 = \$2.75$

17) $\$16 \div 4 = \$4$
    $\$4 \times 9 = \$36$
    $\$36 \div 3 = \$12$
    $\$12 \times 4 = \$48$

18) 24cm + 45cm + 24cm + 45cm = 138cm
    138cm $\div$ 6 = 23cm
    2 triangles→23cm $\times$ 19cm = 437cm^2
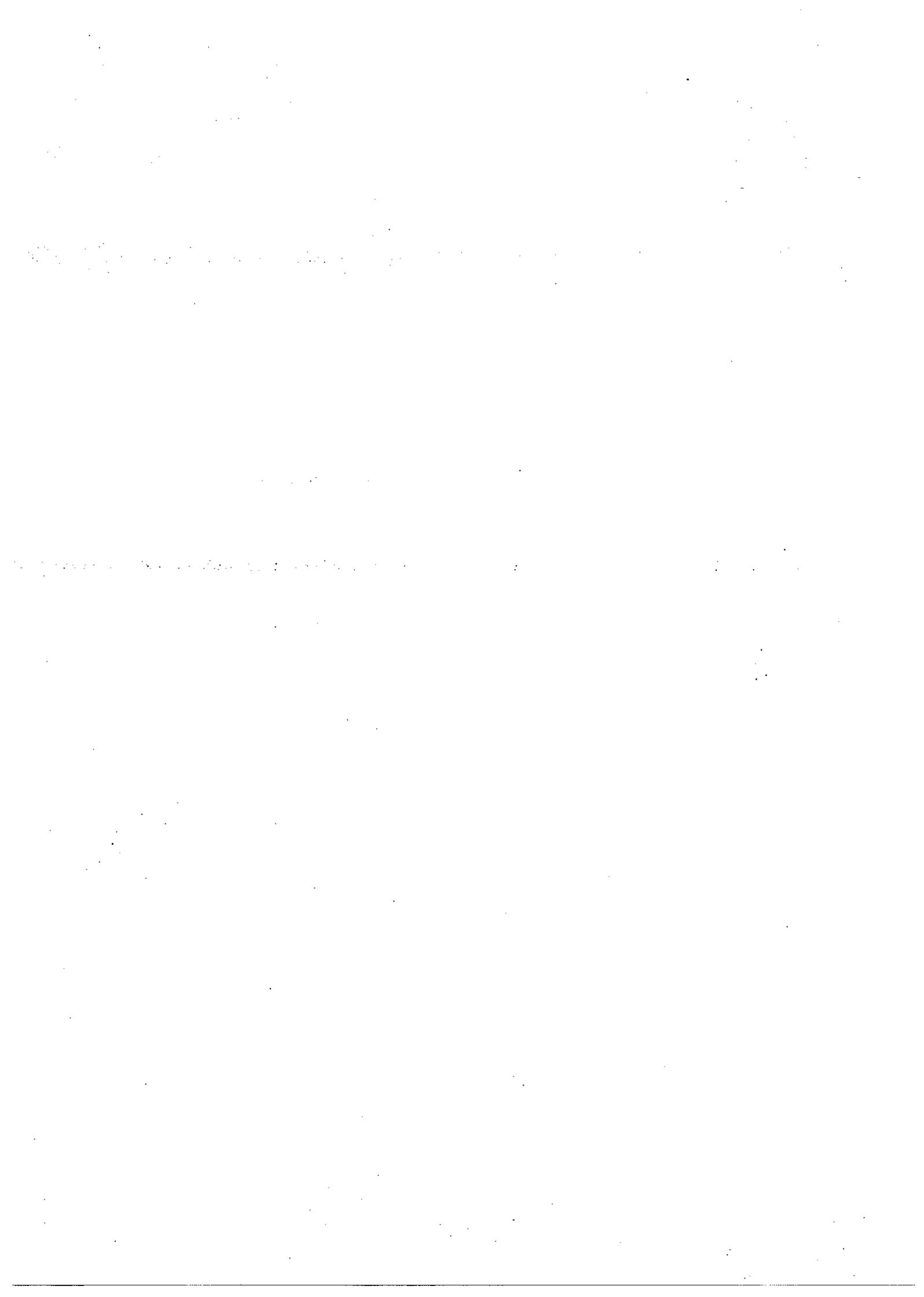
HENRY PARK PRIMARY SCHOOL
2013 SEMESTRAL EXAMINATION 1
MATHEMATICS

PRIMARY 5
PAPER 1
(BOOKLET A)

Name: _____ ( )

Class: Primary 5_____

Marks:

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

Total Time for Booklets A and B: 50 minutes

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

1.   The number of bees in a hive was 37 786.
        Round off this number to the nearest thousand.

        (1) 30 000

        (2) 37 000

        (3) 38 000

        (4) 40 000

2.   Which of the following shows 8764 ÷ 400?

        (1) 8764 ÷ 4 × 100

        (2) 8764 ÷ 100 × 4

        (3) 8764 × 100 ÷ 4

        (4) 8764 ÷ 4 ÷ 100

3.   For every jersey that David sells, he earns $7.
        A bonus of $15 is given for every 10 jerseys sold.
        How much does David get if he sells 10 jerseys?

        (1) $22

        (2) $32

        (3) $85

        (4) $150

4. Find the value of $28 + 42 \div 7 \times 3 - 2$.

    (1) 10

    (2) 28

    (3) 44

    (4) 100

5. What is the difference between $1\frac{3}{4}$ and $3\frac{1}{2}$?

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

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

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

    (4) $2\frac{3}{48}$

6. $\frac{2}{3}$ of Mr Tan's salary is \$420. What is Mr Tan's salary?

    (1) \$280

    (2) \$630

    (3) \$840

    (4) \$1260

7. ABCD is a square of length 12 cm. AE = EB = 6 cm.

BF is $\frac{1}{3}$ the length of BC. What is the area of triangle CDF?
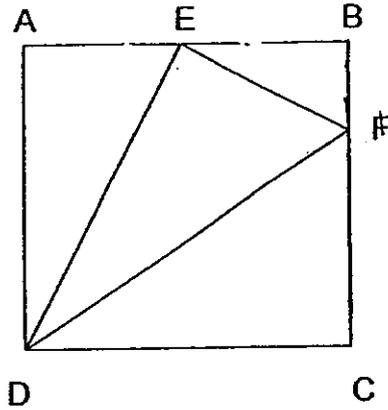
(1) 18 cm²

(2) 24 cm²

(3) 48 cm²

(4) 54 cm²

8. There are 27 girls and 18 boys in the school canteen. What is the ratio of number of boys to the total number of students at the school canteen?

(1) 2 : 3

(2) 3 : 2

(3) 3 : 5

(4) 2 : 5

9. The number cupcakes in 3 boxes is in the ratio 6 : 5 : 9.
   There are 15 cupcakes in the box with the least number of cupcakes.
   How many cupcakes are there in the box which has the most number
   of cupcakes?

   (1) 16

   (2) 18

   (3) 19

   (4) 27

10. The length of a cube is 8 cm. What is its volume?

   (1) 48 cm^3

   (2) 64 cm^3

   (3) 384 cm^3

   (4) 512 cm^3

11. Mr Tan distributes 680 stickers equally among 35 pupils and finds that
   he has some stickers left. How many stickers are left?

   (1) 15

   (2) 16

   (3) 19

   (4) 20

12. The perimeter of the square base of a tank is 24 m. Its height is 7 m. What is the volume of the tank?

(1) 42 m³

(2) 84 m³

(3) 168 m³

(4) 252 m³

13. After spending $\frac{1}{2}$ of his money on a bicycle and $\frac{1}{4}$ of his remaining money on a basketball, Joseph had $45 left.
How much had he spent altogether?

(1) $60

(2) $75

(3) $120

(4) $135

14. Mother gave $840 to her 3 children in the ratio 7 : 2 : 5. What is the difference in amount between the smallest and largest share?

(1) $60

(2) $120

(3) $180

(4) $300

15. Mary saves a certain amount of money every day. From Monday to Friday, she saves $1 per day. On Saturday and Sunday, she saves $3 per day. What is the least number of days Mary will take to save $72?

   (1) 48

   (2) 44

   (3) 24

   (4) 18

HENRY PARK PRIMARY SCHOOL
2013 SEMESTRAL EXAMINATION 1
MATHEMATICS

PRIMARY 5

PAPER 1
(BOOKLET B)

Name: _____ (   )

Class: Primary 5 _____

20
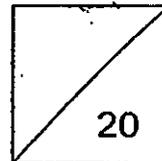
Total Time for Booklets A and B: 50 minutes

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 calculator is **NOT** allowed.

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.　What is the number that lies midway between 167 and 201?

Ans: _____

17.　What is the sum of 151 thousands, 61 tens and 71 ones?

Ans: _____

18. Find the missing number in the box below.

$(12 + 11 \times \boxed{?} \div 12 = 12$

Ans: _____

19. Find the value of the following.

$456 \div 8 + (113 - 4) \times 7$

Ans: _____

20. Jessie bought $\frac{5}{8}$ kg of sugar. She poured them equally into 15 containers.

What is the mass of sugar in each container?

Ans: _____ kg

21. A book shop sold a total of 12 000 pens from May to August.
It sold 2 400 pens in August. Express the number of pens sold in August as a fraction of the total number of pens sold from May to August.

Ans: _____

22. The base of a triangle is 42 cm and its height is 38 cm.
    What is the area of the triangle?

Ans: _____ cm²

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

$$4 : 9 = \boxed{?} : 54$$

Ans: _____

24. Ali and Bob have $96 altogether. The ratio of the amount of money that Ali has to the ratio of the amount of money that Bob has is 9 : 7.

How much money does Ali have?

Ans: $ _____

25. What is the volume of the box below?

10 cm

4 cm

22 cm
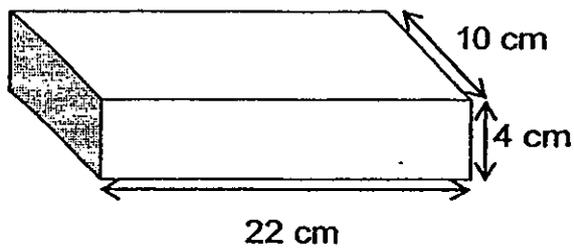
Ans: _____ cm^3

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. A sum of $857 is shared among three sisters.
    The eldest sister gets $250 more than the second sister.
    The second sister gets $125 more than the youngest sister.
    How much money does the youngest sister get?

Ans: $ _____

27. When a 2-digit number is divided by 9, it has a remainder of 7.
    When it is divided by 7, it has a remainder of 5.
    Find the 2-digit number.

Ans: _____

28. The figure below is made up of 2 identical right-angled triangles and a rectangle. The length of the rectangle is twice the length of its breadth.

Find the area of the whole figure.

12 cm

10 cm
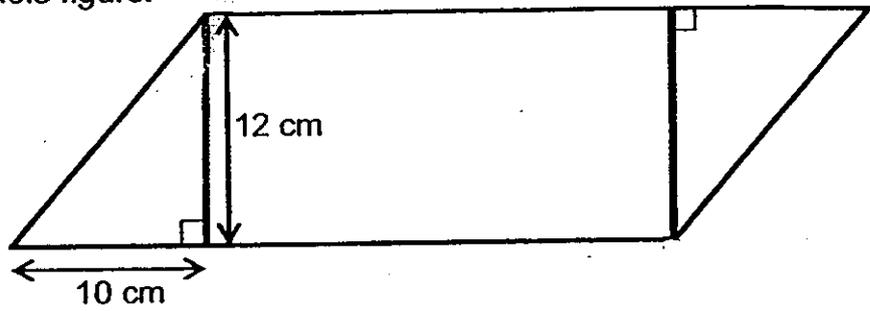
Ans: _____ cm²

29. Esther baked some cookies. After selling $\frac{5}{9}$ of the cookies, she had 136 cookies left. How many cookies did Esther bake in all?

Answer: _____

30. The solid below is made up of 3-cm cubes. What is the volume of the solid?
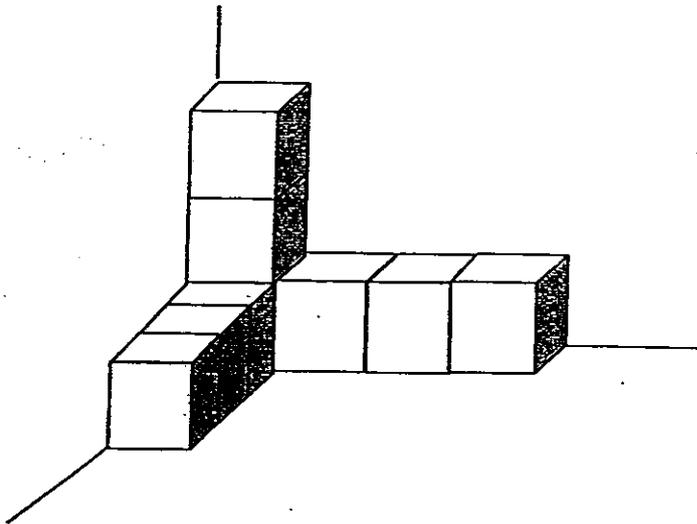
Answer: _____ cm³

End of Paper 1

HENRY PARK PRIMARY SCHOOL
2013 SEMESTRAL EXAMINATION 1
MATHEMATICS

PRIMARY 5

PAPER 2

Name: _____ (   )

Class: Primary 5 _____

60
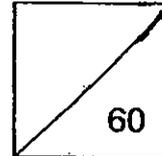
Time for Paper 2: 1 h 4 min

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.

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

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

1. Susan had 146 muffins. Lucy had 98 muffins. Susan gave some muffins to Lucy so that both of them had an equal number of muffins. How many muffins did Susan give Lucy?

Answer: _____

2. Elaine's monthly salary was \$4 200. She received $1\frac{1}{4}$ month of her salary as bonus in December. How much in total did Elaine receive for her salary and bonus in December?

Answer: \$ _____

3. A container with a square base of side 13 cm has a height of 20 cm.

   It is $\frac{2}{5}$ filled with water. Find the volume of water in the container.

20 cm

13 cm

13 cm
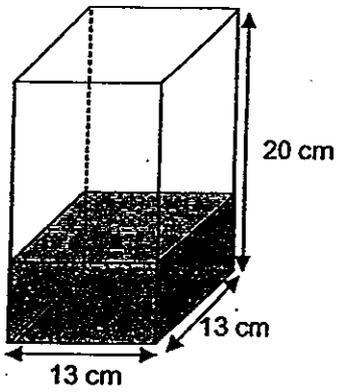
Answer: _____ cm^3

4. David spent $\frac{5}{9}$ of his money on a box of biscuits.

He spent $\frac{3}{4}$ of the remaining money on some sweets. He had $9 left.

How much money did David have at first?

Answer : _____

5. Wayne is 4 years older than Jake. Jake is 6 years older than Peter.
The ratio of Wayne's age to Peter's age is 7 : 2. What is Jake's age?

Answer :_____years old

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. 186 muffins were packed into big and small boxes. There were 7 more small boxes than big boxes. Each big box contained 12 muffins and each small box contained 6 muffins. How many big boxes were used?

Answer: _____ [3]

7. In a bookshelf, $\frac{4}{5}$ of the books are fiction books. $\frac{1}{3}$ of the remainder are non-fiction books. The remaining books are magazines. There are 800 more fiction books than magazines. Find the number of magazines in the bookshelf?

Answer: _____ [3]

8. Bernice spent $195 on 3 dresses and 3 bags.

Each bag cost $\frac{2}{3}$ as much as each dress.

How much did Bernice spend on the 3 dresses?

Answer: _____ [3]

9. 63 stickers were distributed completely among 5 boys and 2 girls.

Each girl received twice as many stickers as each boy.

How many stickers did each girl receive?

Answer: _____ [3]

10. The tank containing some water has a capacity of 160 litres.

It is filled with water to a height of 30 cm.

How much water must be poured away so that the tank will be half-filled?
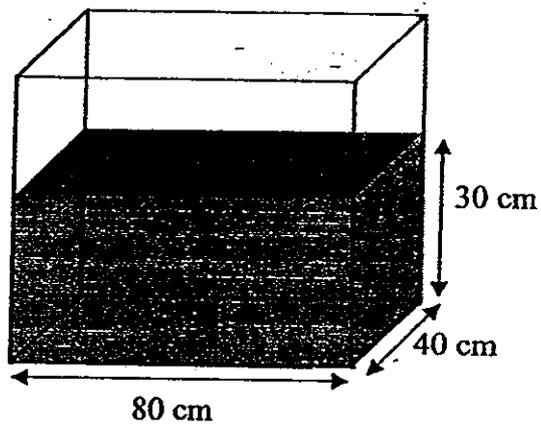
Answer: _____ [3]

11. Ali, Bob and Caden shared 2 040 trading cards among themselves. Ali received $\frac{1}{4}$ as many trading cards as Bob. Caden received thrice as many trading cards as Bob. How many trading cards did Caden receive?

Answer: _____ [4]

12. In the figure below, ACDF shows a rectangular piece of paper of breadth 70 cm. Its length is twice its breadth. Jeannie coloured 4 identical triangles grey on the paper as seen in the figure. Given that points P, Q, R, S, T and U are mid-points of AB, BC, CD, DE, EF and FA, find the area of the piece of paper which was **not** coloured grey.

A   P   B   Q   C

U   R | 70 cm

F   T   E   S   D
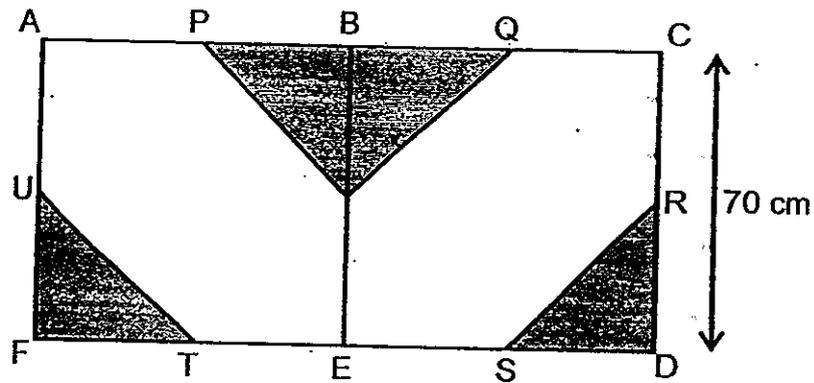
Answer: _____ [4]

13. A science quiz consisted of 25 multiple-choice questions. 4 marks were awarded for every correct answer but 1 mark was deducted for every wrong answer. Joseph answered all the questions and was awarded 70 marks. How many questions did he answer wrongly?

Answer: _____ [4]

14. A total of 589 red, yellow and blue buttons were placed in a container.
The ratio of the number of red buttons to the number of yellow buttons was 3 : 1.
There were 29 more blue buttons than red buttons in the container.
How many red buttons were there in the container?

Answer: _____ [4]

15. There were 85 fewer black marbles than white marbles in a box.

   After $\frac{1}{4}$ of the black marbles and $\frac{3}{7}$ of white marbles were taken out,

   there was an equal number of black and white marbles in the box.

   What is the total number of marbles in the box at first?

   Answer: _____ [5]

16. A rectangular tank was half filled with water as shown in Figure 1.
Some water was poured out from the tank into an empty pail and the height of
the water level became 14 cm as shown in Figure 2.

a) How many litres of water was poured out of the tank into the empty pail?
b) How many litres of water was needed to fill up the tank completely after some
water had been poured out?

38 cm

20 cm

40 cm

Figure 1

14 cm

20 cm

40 cm
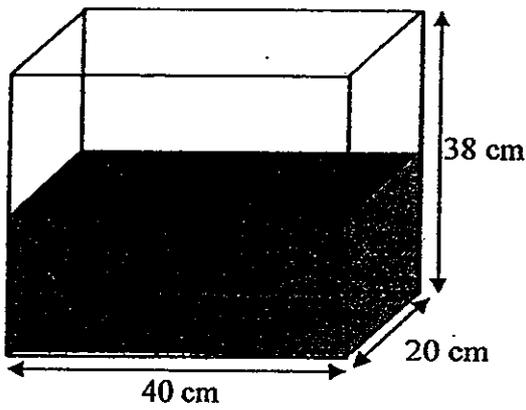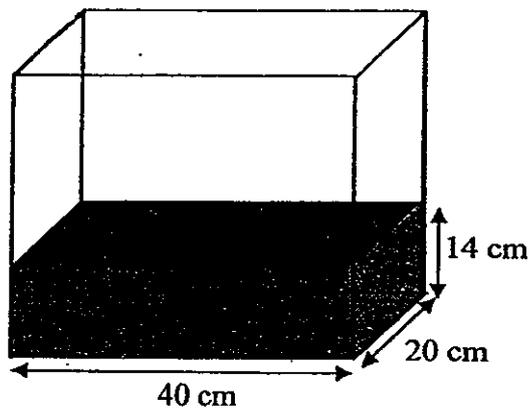
Figure 2

(a) _____ [2]

(b) _____ [3]

17. Kelly baked some cookies. She packed $\frac{3}{10}$ of the cookies for sale and the remaining cookies were given to Tom and Jane in the ratio 5 : 2.

a) Given that Tom received 273 more cookies than Jane, how many cookies did Kelly bake?

b) Kelly sold the cookies in packs of 7 for $5. How much money did Kelly receive from the sale of all the cookies?

Answer: a)_____[3]

b) _____[2]

18. The long staircase at a tourist attraction has 300 steps.

Gerald climbed up the staircase 2 steps at a time while his father climbed up the staircase 3 steps at a time. How many steps on the long staircase were **not** stepped on at all by either Gerald or his father?
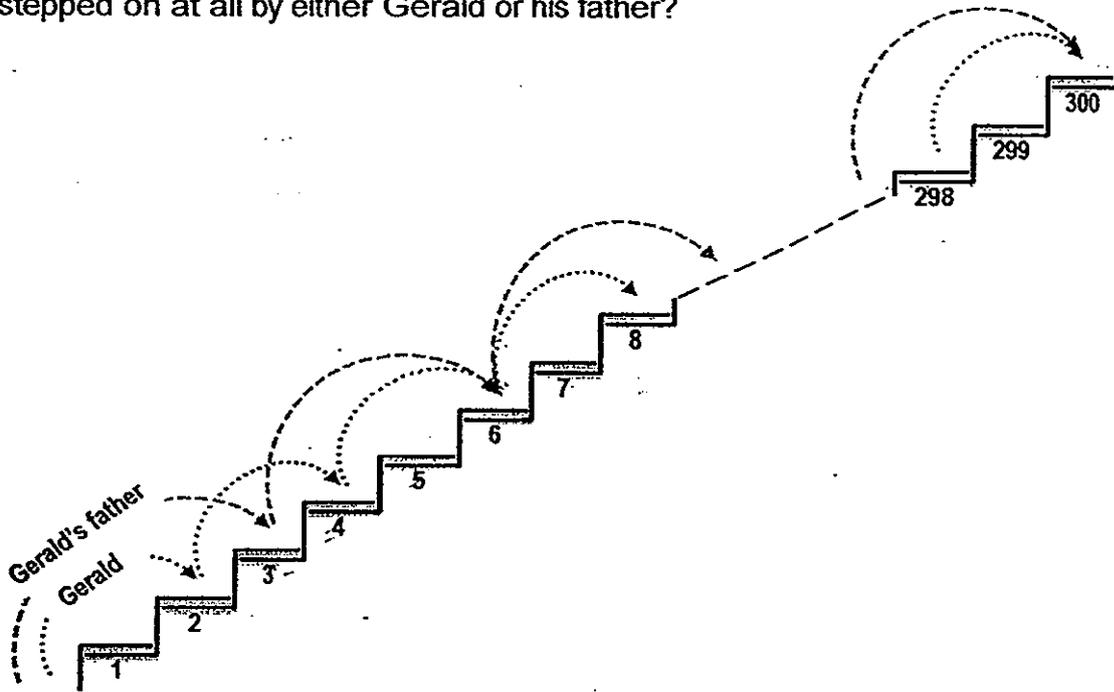
Answer: _____ [4]

End of Paper 2

Page 14
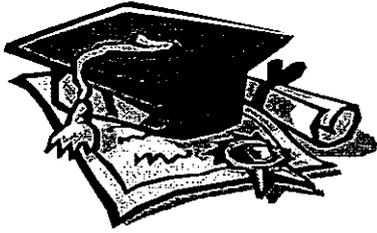
ANSWER SHEET

<u>EXAM PAPER 2013</u>
SCHOOL : HENRY PARK PRIMARY SCHOOL
SUBJECT : PRIMARY 5 MATHEMATICS

TERM : SA1

ORDER CALL : MR GAN @ 9299 8971 . 86065443

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

Section B
Q16) 184
Q17) 151681
Q18) 12
Q19) 820
Q20) 1/24kg
Q21) 1/5
Q22) 798cm^2
Q23) 24
Q24) $54
Q25) 880cm^2
Q26) $119
Q27) 61
Q28) 408cm^2
Q29) 306
Q30) 243cm^2

Paper 2
Q1) 146 − 98 = 48
    48 ÷ 2 = 24 muffins

Q2) $4200 \div 4 = 1050$
$1050 + 4200 + 4200 = \$9450$

Q3) $20/5 \times 2 = 8$
$13 \times 13 \times 8 = 1352cm^3$

Q4) $1u \rightarrow 9$
$9u \rightarrow 9 \times 9 = \$81$

Q5) $14 - 6 - 4 = 4$
$4 + 6 = 10$ years old

Q6)

Small boxes	No of muffins	Big boxes	No of muffins	Total	Check
22	$22 \times 6 = 132$	$22 - 7 = 15$	$15 \times 12 = 180$	312	X
15	$15 \times 6 = 90$	$15 - 7 = 8$	$8 \times 12 = 96$	186	√

Q7) $2/3 \times 1/5 = 2/15$
$4/5 \times 3/3 = 12/15$
$12/15 - 2/15 = 10/15$
$10u \rightarrow 800$
$1u \rightarrow 80$
$2u \rightarrow 80 \times 2 = 160$ magazines (Ans)

Q8) $3 \times 3 = 9$
$2 \times 3 = 6$
$6 + 9 = 15$
$1u \rightarrow 195 \div 15 = 13$
$9u \rightarrow 13 \times 9 = \$117$ (Ans)

Q9) $5u + 4u = 9u$
$1u \rightarrow 63 \div 9 = 7$
$2u \rightarrow 7 \times 2 = 14$ (Ans)

Q10) $16L \rightarrow 160,000cm^3$
$160000 \div 2 = 80000cm^3$
$30 \times 40 \times 80 = 96000cm^3$
$96000 - 80000 = 16000cm^3$ (Ans)

Q11) 12u + 4u + 1u = 17u

1u → 2040 ÷ 17 = 120

12u → 120 x 12 = 1440 (Ans)

Q12) 70 x 2 = 140

140 x 70 = 9800cm^2

70 ÷ 2 = 35

1/2 x 35 x 35 = 612.5cm^2

612.5 x 4 = 2450

9800 − 2450 = 7350cm^2 (Ans)

Q13) 25 x 4 = 100

100 − 70 = 30

4 + 1 = 5

30 ÷ 5 = 6 (Ans)

Q14) 589 − 29 = 560

1u → 560 ÷ 7 = 80

3u → 80 x 3 = 240 (Ans)

Q15) 1 − 1/4 = 3/4

1 − 3/7 = 4/7

4/7w = 3/4b

12/21w = 12/16b

5u → 85

1u → 85 ÷ 5 = 17

16u + 21u = 37u

37u → 37 x 17 = 629 (Ans)

Q16) a) 38 ÷ 2 = 19

19 x 20 x 40 = 15200

14 x 20 x 40 = 11200

15200 − 11200 = 4000ml = 4L (Ans)

b) 38 − 14 = 24

24 x 20 x 40 = 19200ml = 19.2L (Ans)

Q17) a) 1 − 3/10 = 7/10

5u − 2u = 3u = 273

1u → 273 ÷ 3 = 91

91 x 10 = 910 (Ans)

b) 91 x 3 = 273
   273/7 x 5 = 195 (Ans)

Q18) All even numbers stepped on by Gerald
   All divisible by three stepped on by Gerald's father
   So only odd numbers not divisible by three not stepped on eg, 1, 5, 7,...
   Thus every three steps will not be stepped on

   300 ÷ 3 = 100 (Ans)

METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887

CONTINUAL ASSESSMENT 2013
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: 5 March 2013

This booklet consists of 6 printed pages including this page.

METHODIST GIRLS' SCHOOL

Founded in 1887

PRIMARY 5 MID-YEAR EXAMINATION 2013
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: 14 May 2013

This booklet consists of 6 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 $2\,020\,000 \div \boxed{} = 2020 \times 10$

     (1)   10

     (2)   100

     (3)   1000

     (4)   10 000

2 $500\,000 + 5000 + 50 + 5 = \boxed{}$

     (1)   505 055

     (2)   505 505

     (3)   550 055

     (4)   550 505

3   What is the sum of 23 tenths and 45 hundredths?

     (1)   0.28

     (2)   0.68

     (3)   2.75

     (4)   4.73

4 Which number when rounded to the nearest tenth gives **10.1** as the answer?

  (1) 10.15
  (2) 10.05
  (3)   9.95
  (4)   9.85

5 A kilogram of prawns cost $14. What is the cost of $2\frac{1}{4}$ kg of prawns?

  (1) $31.50
  (2) $35.00
  (3) $38.50
  (4) $42.00

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

  (1) 3.08
  (2) 3.45
  (3) 3.4
  (4) 3.8

7 Divide 34 by 18. Round off your answer to 2 decimal places.

  (1) 0.52
  (2) 0.53
  (3) 1.88
  (4) 1.89

8 What is the missing number in the box?

$4 : 6 = 6 : \boxed{}$

(1) 12

(2) 10

(3) 9

(4) 4

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

(1) 6

(2) 7

(3) 13

(4) 14

10 8 boys share 5 pizzas. What fraction of a pizza did each boy get?

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

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

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

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

11 ABCD is a square, AB = 8 cm, BE = EC, CF = FD.
What is the ratio of the shaded part to the unshaded part?
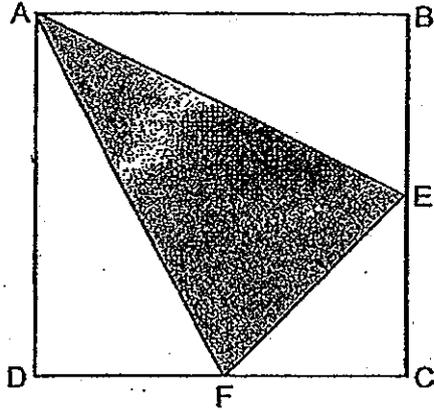
    (1)   2 : 5

    (2)   3 : 8

    (3)   3 : 5

    (4)   8 : 3

12 Mrs Tan earned $2 000. She used $\frac{1}{4}$ of her salary on food, $\frac{1}{5}$ of the remaining salary on transport and saved the rest. How much money did she save?

    (1) $800

    (2) $900

    (3) $1100

    (4) $1200

13 $39 \times 6 +$ ☐ $\times 6 = 420$

(1) 3
(2) 30
(3) 31
(4) 381

14 Multiply the sum of 8.92 and 4.67 by 9.

(1) 13.59
(2) 50.95
(3) 84.95
(4) 122.31

15 The ratio of the number of boys to the number of girls at a party was 4 : 3 at first. 9 boys left and the number of girls remaining at the party was 24. How many boys remained till the end of the party?

(1) 23
(2) 42
(3) 47
(4) 56

METHODIST GIRLS' SCHOOL
Founded in 1887

PRIMARY 5 MID-YEAR EXAMINATION 2013
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: 14 May 2013

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

This booklet consists of 7 printed pages including this page.

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

(20 marks)

16 A 5-digit number when rounded off to the nearest thousand is 23000.
What is the greatest possible number?

Ans: _____

17 Use all the digits given to form the smallest 6-digit even number.

3 7 0 2 6 5

Ans: _____

18 If I subtract 25 hundredths from 1, the answer is [   ]

Ans: _____

19 Pears are sold in bags of 3.   Mrs Raja bought 12 pears
    How much did she pay for the pears?

    3 for
    $2
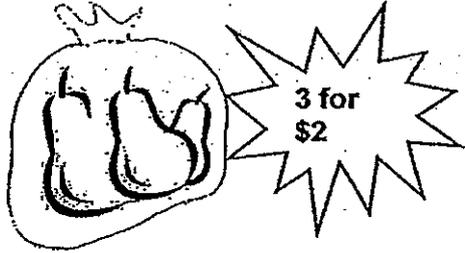
                                        Ans: $ _____

20 Susan used 0.35 m of ribbon to tie a box.

    How much ribbon did she use to tie 7 such boxes?

                                        Ans: _____m

21 In the number line shown below, A represents $\frac{3}{4}$ and C represents $\frac{11}{12}$
    B is the midpoint of A and C. What is the missing fraction represented by B?

    A   B   C

    $\frac{3}{4}$ $\frac{11}{12}$

                                        Ans: _____
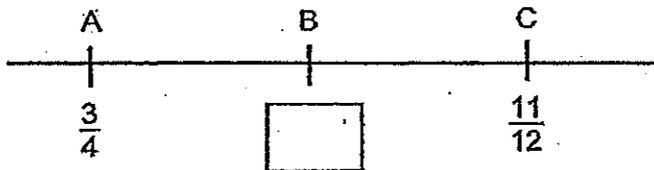
22 Find the value of $1\frac{4}{5} \div 6$.

Express your answer as a decimal.

Ans: _____

23 Arrange the following fractions in order, beginning with the smallest fraction.

$$\frac{3}{5} \quad , \quad \frac{5}{9} \quad , \quad \frac{2}{3}$$

Ans: _____

24 The ratio of John's savings to Peter's savings is 3 : 7
Find their total savings if Peter saves $630.

Ans: $ _____

25 Find the value of 320 ÷ 8 x 5 − (46 + 64).

Ans: _____

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

(10 marks)

26   In the triangle shown below, AC is the base. Draw the height and label it 'h'.
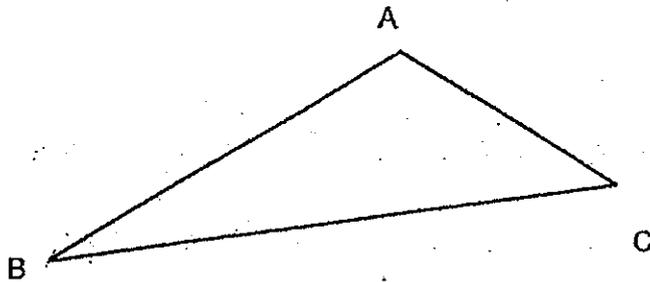
27   The mass of a container with 50 sweets is 550 g.
      The mass of the same container with 30 sweets is 390 g.
      What is the mass of the empty container?

Ans: _____ g

28 Mei Ying spent $\frac{1}{3}$ of her money on a watch and $\frac{1}{4}$ of her money on a dress.
She then found out that she had $250 left.
How much money did she have at first?

Ans: $ _____

29 A pile of 30 books is 100 cm high. 10 books have a thickness of 2.5 cm each and 10 books have a thickness of 3 cm each. If the remaining books have the same thickness each, what is the thickness of each book?

Ans: _____ cm

30   The perimeter of square ABCD is 36 cm. Find the area of the shaded part.
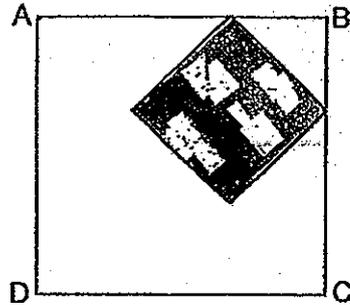
Ans: _____ cm²

End of Booklet B

METHODIST GIRLS' SCHOOL

Founded in 1887

PRIMARY 5 MID-YEAR EXAMINATION 2013
MATHEMATICS
PAPER 2

Total Time: 1 h 40 min

INSTRUCTIONS TO CANDIDATES

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

Name: _____ ( )

Class: Primary 5._____

Date: 14 May 2013

60
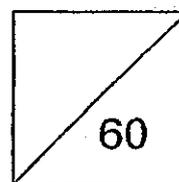
This booklet consists of 13 printed pages including this page.

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   One eraser and one pen cost $1.40 altogether.
Cynthia bought 2 erasers and 4 pens for $5.
How much did one eraser cost, in cents?

Ans: _____ ¢

2   Mrs Wong baked 80 cupcakes for a funfair.
She sold $\frac{4}{5}$ of the cupcakes at $3.50 each.
How much money did she collect from the sale?

Ans: $_____

3   Alice saves 50 cents a day.
For every $2.50 that she saves, her mother will give her 50 cents.
How long will Alice take to save $12?

Ans: _____

4   In the figure below, ABCD is a rectangle made up of 2 identical squares.
     CD is 24 cm and E is the midpoint of AB.
     Find the area of the **shaded** triangle.
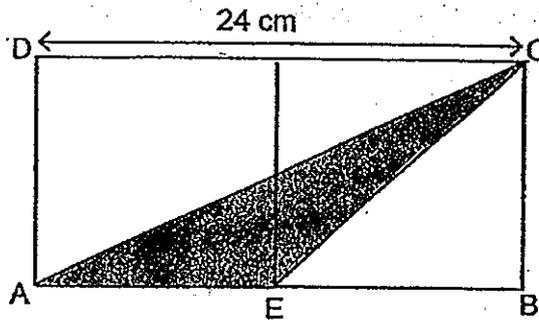
Ans: _____ cm²

5   Mr Tan had 27 kg of rice. After filling 12 containers with the same amount of
     rice each, he had 16.5 kg of rice left.
     How much rice was there in each container?

Ans: _____ kg

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 parking fees at Floral Shopping Mall from 7 a.m. to 12 midnight are as follows:

First hour	$2
Every additional half hour	$1

(a) How much must Mrs Lee pay if she parks her car there from 2.15 p.m. to 5.45 p.m.?

(b) Mrs Lee drove into the car park at 10.40 a.m. She then realized that she had only $4 with her. What is the maximum number of hours that she Lim can park her car?

Ans: (a) _____ [2]

      (b) _____ [1]

7   Mr Tan spent $\frac{3}{8}$ of his salary on a television set and $\frac{1}{6}$ of the remaining salary on a washing machine. He had $2300 left. How much did the television set cost?

Ans: _____ [3]

8   Majorie had a box of beads. She used 285 of the beads to make some necklaces and $\frac{1}{5}$ of the remaining beads to make some bracelets.

In the end, she found that she had $\frac{1}{2}$ of the original number of beads left. How many beads did she have at first?

Ans: _____ [3]

9   The ratio of the number of boys to the number of girls in a camp is 4 : 7.
     The camp fee for each child is $45. There are 112 boys in the camp.
     Find the total amount of fees paid by all the children.

                                        Ans: _____ [3]

10   Siti and Aslinda had 198 stickers altogether.

     Siti gave away $\frac{1}{2}$ of her stickers and Aslinda gave away $\frac{3}{5}$ of hers.

     In the end, they had an equal number of stickers left.
     How many stickers did they give away altogether?

                                        Ans: _____ [3]

11 Megan can buy 10 apples and 16 oranges with $12. She can buy 24 oranges with the same amount of money. If she spends all her money on apples, how many apples can she buy with $70?

Ans: _____ [3]

12 The figure below is made up of 2 squares. The perimeter is 134 cm. Find the area of the shaded part.

25 cm
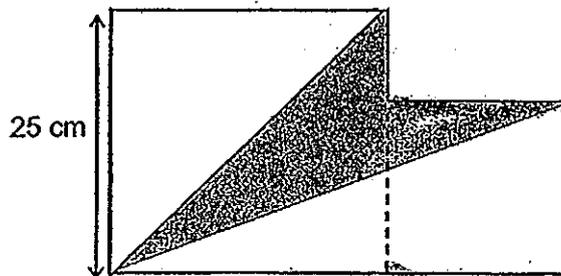
Ans: _____ [4]

13 Mr Tan gave $5800 to his wife and 3 children. His wife received $1600 more
    than the first child. The second and third child each received half as much
    money as the first child.

(a) How much money did the first child receive?

(b) What is the ratio of the amount of money received by his wife to the
     amount of money received by his 3 children?

Ans: (a) _____ [2]

      (b) _____ [2]

14 The figure below shows a rectangle that is divided into 3 parts P, Q and R.
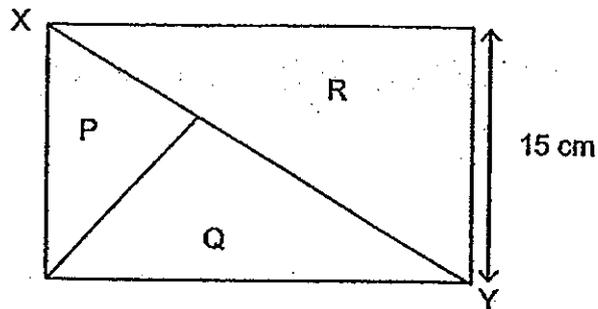
The line XY divides the rectangle into 2 equal parts.
The ratio of Area P to Area Q is 2 : 3. Area Q is 117 cm^2.
The breadth of the rectangle is 15 cm.
What is the length of the rectangle?

Ans: _____ [4]

15   Nicole had 4 times as many beads as Audrey. After they each bought an
     equal number of beads, Audrey had 162 beads and Nicole had three times as
     many beads as Audrey.

     (a) How many beads did Nicole have at first?
     (b) How many beads did each of them buy?

                                                    Ans: (a) _____ [3]

                                                          (b) _____ [2]

16   The price of tickets for a concert is as shown in the table below.

	Price per ticket
Pupil	$9.50
Teacher	$15

A total of 420 tickets were sold. $\frac{1}{6}$ of the tickets sold were bought by teachers. Find the total amount of money collected from the sale of tickets. Round off your answer to the nearest hundred dollars.

Ans: _____ [5]

17. A tailor had some cloth. She used $\frac{2}{9}$ of the cloth to make dresses and $\frac{3}{14}$ of the remaining cloth to make trousers. She bought another 126 m of cloth and then found out that she had as much cloth as she had at first.
Find the length of cloth the tailor had at first.

Ans: _____ [5]

18 Mrs Lim had 3 containers of flour.
    The ratio of the mass of flour in Container A to the mass of flour in
    Container B to the mass of flour in Container C is 2 : 5 : 8.
    Container B contained 600 g of flour.

    Mrs Lim used $\frac{4}{5}$ of the total amount of flour to make pineapple tarts.

    What is the mass of flour left?

Ans: _____ [5]

End of Paper

EXAM PAPER 2013

SCHOOL : MGS PRIMARY SCHOOL
LEVEL : PRIMARY 5
SUBJECT : MATHEMATICS
TERM : SA1

Booklet A

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

16. 23499
17. 203576
18. 0.75
19. 8
20. 2.45
21. 5/6
22. 0.3
23. 5/9 , 3/5 , 2/3
24. 900
25. 90
26.
27. 150
28. 600
29. 4.5
30. 18
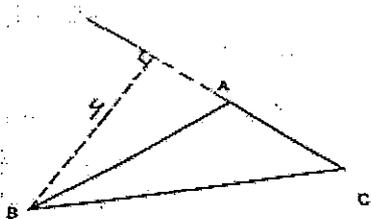
Paper 2

1. $1.4 \times 2 = 2.80$
   $5 - 2.80 = 2.20$
   $2.2 \div 2 = 1.1$
   $1.4 - 1.1 = 0.3$

2. $80 \div 5 = 16$
   $16 \times 4 = 64$

1

64x3.50=224

3. 3u ----- 5days

   12u ---- 20

4. 24÷2=12

   ½ x 12 x12 = 72

5. 27-16.5=10.5

   10.5÷12=0.875

   6. A. 2+1+1+1+1+1=7

   B. 2

   7. 2300÷5=460

   460x6=2760

   2760÷5=552

   552x3=1656

   8. 285÷3=95

   95x8=760

   9. 112÷4=28

   28x11=308

   308x45=13860

   10. 198÷9=22

   22x5=110

   11. 24-16=8

   8 Orange = 10 Apples

   12÷24=0.5

   0.5x8=4

   4÷10=0.4

   70÷0.4=175

   12. 134-100=34

   34÷2=17

   ½ x8x25+1/2x17x 17 = 244.50

   13. 5800-1600=4200

   4200÷6=700

   700x2=1400

   1400+1600=3000

   700x4=2800

3000:2800
15:14

14. 117÷3=39
39x2=78
78+117=195
195x2=390
390÷15=26

15. A. 162x2=324
162x3=486

B. 324÷3=108
108x4=432
486-432=54

16. 420÷6=70
70x15=1050
70x5=350
350x9.50=3325
3325+1050=4375 --- 4400

17. 126÷7=18
18x18=324

18. 600÷5=120
120x15=1800
1800÷5=360

NAN HUA PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 1 – 2013
PRIMARY 5

MATHEMATICS

Paper 1

Section A: 15 Multiple Choice Questions (20 marks)

Section B: 15 Short Answer Questions   (20 marks)

Total Time for Paper 1:   50 minutes

INSTRUCTION TO CANDIDATES

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

Marks Obtained

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

Name :_____(   )

Class : 5_____

Date : 16 May 2013   Parent's Signature:_____

Section A (20 marks)

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

1. In 206.594, what does the digit 9 stand for?

    (1)   9 thousandths

    (2)   9 hundredths

    (3)   9 tenths

    (4)   9 ones

2. Express $1\frac{9}{12}$ as a decimal.

    (1)   1.812

    (2)   1.75

    (3)   1.34

    (4)   1.25

3. What is the missing number in the box?

    $$\frac{24}{40} = \frac{30}{\square}$$

    (1)   34

    (2)   46

    (3)   50

    (4)   54

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

    (1)   11

    (2)   13

    (3)   20

    (4)   22

5. In a container of 60 beads, 28 of them are red, 12 are green and the rest are blue. What is the ratio of the number of blue beads to the number of red beads to the total number of beads?

    (1)   7 : 5 : 15

    (2)   5 : 7 : 15

    (3)   7 : 3 : 5

    (4)   5 : 7 : 3

6. The diagram below is not drawn to scale. Find the area of the shaded triangle ABD.
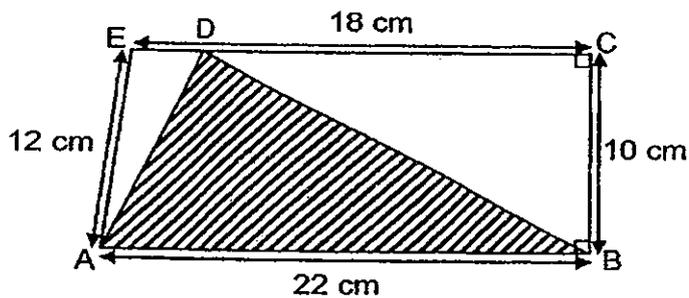
    (1)   90 cm²

    (2)   108 cm²

    (3)   110 cm²

    (4)   132 cm²

7. $12 = \boxed{}$ of 60. The missing fraction is _____.

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

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

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

(4) $\dfrac{1}{12}$

8. Study the following pattern carefully. The first 15 shapes are shown. What is the 60th shape in the pattern?

(1) ♡

(2) ☆

(3) ◎

(4) cylinder

3
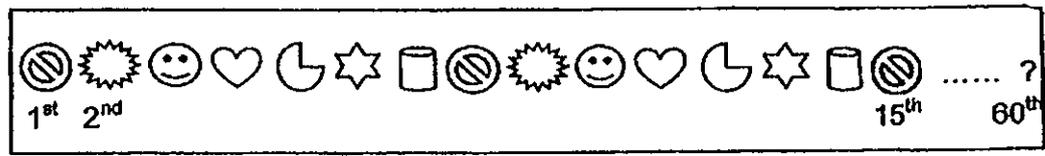
9. What is the value of 360 − (24 − 2 + 8) x 3 ?

   (1) 270
   (2) 318
   (3) 358
   (4) 990

10. When a number is divided by 8, it gives a quotient of 96 and a remainder of 6. What is the number?

    (1) 720
    (2) 762
    (3) 768
    (4) 774

11. Brian is 10 years old now. His mother is 4 times as old. What was the ratio of his mother's age to his age 5 years ago?

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

12. Joan had $\frac{7}{8}$ kg of sugar. She used $\frac{1}{3}$ of the sugar to bake some cakes. What was the mass of the sugar that was left?

    (1) $\frac{1}{24}$ kg

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

    (3) $\frac{7}{12}$ kg

    (4) $\frac{7}{24}$ kg

4

13. Ali's cards is equal to $\frac{1}{5}$ of Rahma's cards. If Ali has 60 cards, how many cards does Rahma have?

    (1)   12

    (2)   48

    (3)   240

    (4)   300

14. A case can either hold 24 identical pens or 18 identical crayons. If there are already 8 such pens in the case, what is the greatest number of crayons that can be placed in the remaining space in the case?

    (1)   10

    (2)   12

    (3)   14

    (4)   16

15. Krishnan gave away $\frac{1}{6}$ of her stickers and had 300 stickers left. How many stickers did she give away?

    (1)   50

    (2)   60

    (3)   240

    (4)   250

Section B (20 marks)

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

16.   Write four million and fifteen thousand in numeral.

Ans:_____

17.   Express $6\dfrac{4}{25}$ as a decimal and correct to 1 decimal place.

Ans:_____

18.   What is the missing number in the box in the following equivalent ratio.

16 : 72 = [   ] : 9

Ans:_____

19. $\dfrac{5}{8}$ of the pupils in a choir are girls. Find the ratio of the number of boys to the

number of girls in the choir.

Ans:_____

/4

20. A square table can seat 4 people as shown below. John joins some identical square tables together to form a long rectangular table in order to seat 24 people. Find the least number of such square tables he needs?
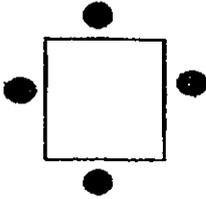
Ans:_____ square tables

21. What is the missing number in the box?

$9 \times 160 = \boxed{} \times 160 - 160$

Ans:_____

22. Find the sum of 0.75 and 10.6.
Express your answer as a mixed number in the simplest form.

Ans:_____

/3

7

23. Express 40 cm as a fraction of 0.5 m. Give your answer in the simplest form.

Ans:_____

24. Using the number cards provided below, form the greatest 4-digit **odd** number that is **divisible by 9**. Each digit can only be used once.

| 0 | 1 | 2 | 3 | 5 |
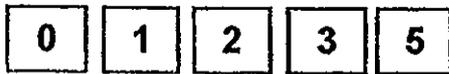
Ans:_____

25. 10 jugs of water can fill $\frac{5}{6}$ of a tank. Exactly how many such jugs of water are required to fill the whole tank?

Ans:_____

/3

8

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.   The number of cars to the number of vans to the number of motorcycles in a car park was 15 : 3 : 7. There were 96 more cars than motorcycles. How many vans were there in the car park?

Ans: _____ vans

27.   Victoria had $\frac{2}{5}$ as much money as Dora at first. When Dora gave $36 to Victoria, they had the same amount of money. How much money did both of them have altogether?

Ans: $_____

28.   Vincent drew 5 different equilateral triangles as shown below. If point A to point B measures 20 cm, find the sum of the perimeters of the 5 triangles.

A   20 cm   B
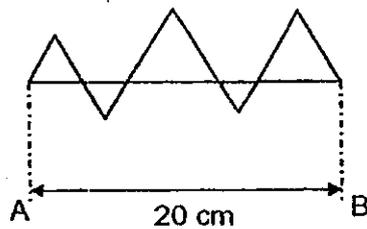
Ans: _____ cm

/6

29. Kent is between 10 and 30 years old. In the year 2013, his age is a multiple of 4. In the year 2014, his age is a multiple of 7. What was his age in year 2012?

Ans:_____

30. The figure below is made up of 5 identical squares. The area of the figure is 45 cm². Find the perimeter of the figure.

Ans:_____ cm

NAN HUA PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 1 – 2013
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)

INSTRUCTIONS 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 : 16 May 2013   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. A shirt and a blouse cost $25. Ashley paid $36 for 2 such shirts and 1 such blouse. What was the cost of each blouse?

Ans: $\$$_____

2. The area of the shaded part of the rectangle ABCD is 450 cm². What is the area of the rectangle ABCD.

Ans:_____ cm²

3. Audrey bought $3\frac{1}{10}$ ℓ of lemonade and Ben bought $\frac{3}{5}$ℓ less lemonade than Audrey. How much lemonade did they buy altogether? Give your answer as a mixed number in the simplest form.

Ans:_____ ℓ

6

1

4. Alden placed some identical wooden poles along a straight path that was 6 m long. He placed the poles at equal distance apart with a pole at each end of the track. The distance between the first pole and the sixth pole was 60 cm. How many wooden poles did Alden place along the straight path altogether?

Ans:_____

5. Shade two more squares to make the figure symmetrical along the line AB.

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. Alycia spent $\frac{2}{5}$ of her money on some pizzas and $\frac{1}{6}$ of the remaining on some pies.

   (a) What fraction of her money did she spend on the pies?
   (b) If she was left with $25, how much did she spend on the pizzas?

   Ans: (a)_____ [1]

   (b)_____ [2]

7. At a concert performance, the ratio of the number of adults to the number of boys to the number of girls was 3 : 5 : 4. There were 774 children.

   (a) How many adults were there?
   (b) What was the ratio of the number of adults to the number of children? Give your answer in the simplest form.

   Ans: (a)_____ [2]

   (b)_____ [1]

3

8. David and Peter shared a sum of money. After David gave $15 to Peter he still had $10 more than Peter. How much more money did David have than Peter at first?

Ans:_____ [3]

9. There were thrice as many girls as boys in the school hall. After 36 girls had left the hall the number of boys and the number of girls that remained in the hall were equal. How many children were there in the school hall at first?

Ans:_____ [3]

6

4

10. Betty had some beads. She gave Tricia $\frac{1}{5}$ of the beads and 2 more.

Then she gave half of the remaining and 5 more to Lovell. If Betty had 12 beads left, how many beads did she have at first?

Ans:_____ [4]

11. Miss Lam bought a bag of sweets to give to a group of pupils. If each pupil received 7 sweets, Miss Lam would have 5 sweets left. If each pupil received 9 sweets, she would be short of 3 sweets.

(a) How many pupils were there?

(b) How many sweets did Miss Lam buy?

Ans: (a)_____ [1]

(b)_____ [2]

7

12. Anthony attempted a Mathematics quiz that consisted of 20 questions. 5 marks were awarded for every question that was answered correctly and 2 marks were deducted for every question that was answered wrongly. Anthony did all the questions and was awarded 65 marks. How many questions did Anthony answer correctly?

Ans:_____ [4]

13. Derrick, Nicole and Ashton had 260 marbles to share among themselves in the ratio of 2 : 3 : 5. How many marbles must Ashton give to Derrick so that both of them would have the same number of marbles?

Ans:_____ [4]

8

6

14. James spent $\frac{3}{4}$ of his money on a book and $\frac{2}{3}$ of the remainder on a pen. He had $1.25 left.

    (a) What fraction of his money did he spend altogether?

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

Ans: (a)_____ [2]

(b)_____ [2]

15. Study the table and pattern carefully and answer the questions that follow.

Pattern 1   Pattern 2   Pattern 3

Pattern number	Number of squares
Pattern 1	3
Pattern 2	7
Pattern 3	13
Pattern 4	21
...	...
Pattern 30	(a)_____

(a)   Complete the table above.

(b)   How many squares will Pattern 90 have?

Ans: (a)_____ [2]

(b) _____[2]

8

16. The figure below is made up of a triangle of base 60 cm overlapping with a rectangle of length 40 cm and breadth 30 cm. The area of the shaded part is $\frac{2}{5}$ of the area of the triangle. What fraction of the figure is shaded? Express your answer in the simplest form.

Ans: _____ [5]

17. In a funfair, $\frac{5}{6}$ of the people were children and the rest were adults. $\frac{1}{3}$ of the adults were women. $\frac{2}{3}$ of the children were girls. If there were 869 women and girls altogether, how many boys were there at the funfair?

Ans:_____ [5]

5

18. Roy's coin box contained the same number of ten-cent coins and fifty-cent coins. He took out 20 ten-cent coins and exchanged them for fifty-cent coins of the same value and put them back into the coin box. The ratio of the number of fifty-cent coins to the number of ten-cent coins became 17 : 5. How much money was there in the coin box?

Ans:_____ [5]

END OF PAPER 2

ANSWER SHEET

EXAM PAPER 2013

SCHOOL : NAN HUA PRIMARY SCHOOL
LEVEL : PRIMARY 5
SUBJECT : MATHEMATICS
TERM : SA1

Booklet A

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

16. 4015000
17. 6.2
18. 2
19. 3:5
20. 11
21. 10
22. $11\frac{17}{20}$
23. 4/5
24. 5301
25. 12
26. 36
27. 168
28. 60
29. 19
30. 36

Paper 2

1. 36-255=11
   1S --- 11
   1B --- 25-11 = 14
2. 450x2=900
3.
   $$3\frac{1}{10} - \frac{6}{10} \div \frac{31}{10} = \frac{56}{10} = 5\frac{3}{5}$$
4. 6-1=5
   60÷5=12
   600÷12=50
   50+1=51

5. . .

1

6.A.
    b. 25÷5=5
    1u --- 5
    4u --- 20

7. A. 5+4=9
   774÷4=86
   1u--- 86
   3u --- 86x3=258
   b. A:C
       3:9
       1:3
8.15+15+10=40
9.2u --- 36
   1u --- 18
   4u --- 72
10. 12+5=17
   17x2=34
   34+2=36
   36÷2x3=54
11. A. 9-7=2
   3+5=8
   8÷2=4
   B. 4x7+5=33
   4x9-3=33
12. 5+2=7
   20x5=100
   100-65=35
   35÷7=5
   20-5=15
13. D:N:A
    2:3:5
    4:6:10
   4+6+10=20
   260÷20=13
   1u --- 13
   3u --- 39
14. A. 1-1/12 = 11/12
   b. 1.25x12=15

15. A. 30x30=900
   900+30+1=931
   B. 90x90=8100
   8100+90+1=8191

16. 40x30=1200
   3/5x1200=480
1200-480=720
1200+720=1920
480/1920 = ¼

17. 10+1=11

11u --- 869
1u ---- 79
5u --- 395

18. 20x10cents = $2
    $2÷50cents = 4
    12u ---- 20+4 = 24
    1u --- 2
    5u --- 10
    10x10cent + 34x50cents = 18

NANYANG PRIMARY SCHOOL

FIRST SEMESTRAL EXAMINATION
2013

PRIMARY 5

MATHEMATICS

PAPER 1

DURATION: 50 MINUTES

Booklet A	/ 20
Booklet B	/ 20

Paper 1 Total:
/ 40

Name: _____ (   )

Class: Primary 5 (   )

Date: <u>16 May 2013</u>

Parent's Signature: _____

Any query on marks awarded should be raised by <u>22 May 2013.</u> We seek your understanding in this matter as any delay in the confirmation of marks will lead to delays in the generation of results

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
FOLLOW ALL INSTRUCTIONS CAREFULLY.
ANSWER ALL QUESTIONS.
YOU ARE **NOT** ALLOWED TO USE A CALCULATOR.

PAPER 1 (BOOKLET A)

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

(20 marks)

---

1 Nine million, eighty-nine thousand and eighty-nine when written in numeral is _____ .

     (1)   9 890 089

     (2)   9 809 089

     (3)   9 089 890

     (4)   9 089 089

2 What is the value of $386 - (12 + 4 \times 8)$?

     (1)   128

     (2)   258

     (3)   342

     (4)   406

3   Which one of the following fractions is equivalent to $\dfrac{6}{15}$?

(1) $\dfrac{3}{15}$

(2) $\dfrac{3}{12}$

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

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

4   Arrange the following fractions in ascending order:

$$\dfrac{2}{3},\ \dfrac{9}{10},\ \dfrac{3}{5}$$

(1) $\dfrac{9}{10},\ \dfrac{3}{5},\ \dfrac{2}{3}$

(2) $\dfrac{9}{10},\ \dfrac{2}{3},\ \dfrac{3}{5}$

(3) $\dfrac{2}{3},\ \dfrac{3}{5},\ \dfrac{9}{10}$

(4) $\dfrac{3}{5},\ \dfrac{2}{3},\ \dfrac{9}{10}$

5   Which one of the following decimals has the same value as $\dfrac{3}{200}$?

(1)   0.015

(2)   0.150

(3)   0.003

(4)   0.300

6   Find the value of $\dfrac{3}{4}$ + $\dfrac{1}{6}$

(1) $\dfrac{3}{24}$

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

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

(4) $\dfrac{11}{12}$

7   Find the value of $\dfrac{3}{7} \times 12$.

   (1) $\dfrac{3}{84}$

   (2) $\dfrac{36}{84}$

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

   (4) $\dfrac{36}{7}$

8   What is the missing number in the box below?

   $35.426 = 35 + 3 \times 0.1 + \boxed{} \times 0.01 + 6 \times 0.001$

   (1)   0.12

   (2)   0.42

   (3)   12

   (4)   39

9   What is the missing number in the box below?

$$2.845 = 2 + \frac{4}{5} + \frac{\boxed{}}{200}$$

(1)   5

(2)   8

(3)   9

(4)   45

10   ABCD is a rectangle. What is the height of Triangle ADE, given its base is AD?

(1)   AB

(2)   AF

(3)   BC

(4)   EF

11 John has $29 000. The sum is made up of twenty $50-notes and some $100-notes. How many $100-notes does he have?

(1) 190

(2) 280

(3) 289

(4) 300

12 How much longer is the total length of String A and String C than String B?

String	A	B	C
Length	3.06 cm	8.34 cm	6.2 cm

(1) 0.92

(2) 1.28

(3) 1.46

(4) 5.20

13   The length of a rectangle is twice its breadth and the perimeter is $\frac{6}{7}$ m. What is the area of the rectangle?

(1) $\frac{2}{49}$ m²

(2) $\frac{1}{7}$ m²

(3) $\frac{8}{49}$ m²

(4) $\frac{2}{7}$ m²

14   Sally's mother bought a 2-kg cake.   She cut $\frac{1}{5}$ of it for Sally to share with her two sisters.   How much cake did each girl get?

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

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

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

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

15   The diagrams below show the first three figures of a pattern.

Figure 1   Figure 2   Figure 3

The table below shows the figure number and the total number of squares used to form each figure:

Figure	Number of squares used
1	1
2	4
3	9
...	...
8	?

What is the missing number in the table?

(1)   14

(2)   32

(3)   49

(4)   64

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   419 551 to the nearest thousand.

Ans: _____

---

17   What is the product of 807 and 16?

Ans: _____

---

18   What is the missing number in the box below?

$309\,000 \div 30 = 10 \times \boxed{}$

Ans: _____

19   What is the missing number in the box?

$$\frac{7}{8} \times \frac{16}{21} = \frac{?}{3}$$

Ans: _____

20   Find the value of $\frac{6}{7} \div 18$.

Ans: _____

21   Find the value of 72.08 ÷ 4.

Ans: _____

Express 84 g in kg.   Leave your answer as a decimal.

Ans: _____ kg

23   Find the value of 93.4 ÷ 10. Round off your answer to 1 decimal place.

Ans: _____

24 Ranel had a tank filled with water to its brim. The tank had a capacity of $4\frac{3}{4}$ l. He poured $1\frac{2}{3}$ l of water out from the tank. How much water was left in the tank?

Ans: _____ l

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

$$10 \; + \; 20 \; \div \; 6 \; - \; 2 \; \times \; 3 \; = \; 25$$

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. Marks will be awarded for the relevant number sentences. For questions which require units, give your answers in the units stated.

(10 marks)

---

26 Find the value of $72 - (4 + 32 \div 2 \times 3) \div 2$.

Ans: _____

---

27 Mr Lim mixed 2.49 kg of red beans and 1.305 kg of green beans in a bag. He packed 200 such bags. How many kilograms of beans did he use?

Ans: _____ kg

---

28 Given that the dimensions of a right-angled triangle are 5 cm, 12 cm and 13 cm, find the area of this triangle.

Ans: _____ cm^2

12

29 The diagram below shows the distance between 4 points, A, B, C and D, after rounding off to 1 decimal place. What is the greatest possible total distance between A and D?
Leave your answer in 2 decimal places.

Ans: _____ km

---

30 Find the value of

$$\frac{1}{1000} + \frac{2}{1000} + \frac{3}{1000} + \ldots + \frac{19}{1000} + \frac{20}{1000} + \frac{21}{1000}$$

Ans: _____

NANYANG PRIMARY SCHOOL

FIRST SEMESTRAL EXAMINATION 2013

PRIMARY 5

MATHEMATICS

PAPER 2

DURATION: 1 HOUR 40 MINUTES

Paper 2 Total	/ 60
GRAND TOTAL	100

Name: _____ (   )

Class: Primary 5 (   )

Date: <u>16 May 2013</u>

Parent's Signature: _____

Any query on marks awarded should be raised by <u>22 May 2013.</u> We seek your understanding in this matter as any delay in the confirmation of marks will lead to delays in the generation of results.

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
FOLLOW ALL INSTRUCTIONS CAREFULLY.
ANSWER ALL QUESTIONS.
YOU ARE ALLOWED TO USE A CALCULATOR.

PAPER 2

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

(10 marks)

---

1   Estimate the value of 3842 – 637 + 86 by first rounding off each number to the nearest ten.

Ans: _____

---

2   Pete has thrice as many playing cards as Tommy. Andy has 35 fewer playing cards than Pete. The three boys have 259 playing cards altogether. How many playing cards does Andy have?

Ans: _____

---

3   Marie mixed 0.84 *l* of orange syrup and 1.26 *l* of water to make some orange drink. She poured the drink into two jugs equally. How many millilitres of orange drink were there in each jug?

Ans: _____ *ml*

---

4   Box A and Box B contained some fruits. Box A weighed $4\frac{3}{8}$ kg, while Box B weighed 2875 g.   What was the total mass of the two boxes of fruits?

Express your answer as a mixed number in its simplest form.

Ans: _____ kg

5   Raj prepared 10 l of fruit punch daily.   He sold $8\frac{3}{5}$ l of the fruit punch daily for 3 days.   What was the total amount of fruit punch left unsold after the three days?

Ans: _____ l

For questions **6** to **18**, show your working clearly in the space provided for each question and write your answers in the spaces provided.

The number of marks available is shown in brackets [   ] at the end of each question or part-question.   Marks will be awarded for the relevant number sentences.

(50 marks)

___

6   The sum of the first and last page number of a book is 357.   What is the product of the two centre page numbers of the book?

Ans: _____ [3]

___

7   A machine can manufacture $3\frac{1}{4}$ m of cloth in 30 min.   What is the total length of cloth that can be manufactured by two such similar machines in 3 h?

Ans: _____ [3]

___

8   A rectangular paper, 16 cm by 10 cm, is to be folded into halves along line BE before cutting.

Given that AB = BC = DE = EF and BO = OE, and the unshaded parts are cut away from the folded paper to form a letter 'V', find

(a)   the area of Triangle ACO,

(b)   the area of the shaded part.

Ans: (a) _____ [1]

(b) _____ [2]

4

9   The length of a rectangular floor is $\dfrac{15}{4}$ m. Its breadth is $\dfrac{4}{5}$ of its

length and $\dfrac{8}{9}$ of the floor is carpeted.   What is the area of the floor that

is not carpeted?

Ans: _____ [3]

---

10   At a company's event, 20 employees were allowed to bring along one or
two guests per person.   There were a total of 53 people at the event.
How many employees brought along 2 guests, assuming that all
employees brought at least 1 guest?

Ans: _____ [3]

11   Maggie made some cookies for her friends.   If she gave each friend 7
      cookies, she would need another 18 cookies.   If she gave each friend
      10 cookies, she would need another 66 cookies.

      (a)   How many friends did Maggie have?

      (b)   How many cookies did she make?

      Ans: (a) _____ [2]

             (b) _____ [2]

12   Mohammad needed 6 identical bottles of water to fill up 4 identical tanks completely.   11.2 *l* of water were needed to fill up 2 tanks and 5 bottles. What was the total capacity of one of the tanks and one of the bottles? Give your answer in m*l*.

Ans: _____ [4]

13 A shopkeeper imported 480 kg of rice. He packed $\frac{1}{4}$ of it into 2-kg packets and $\frac{7}{12}$ of the remainder into 3-kg packets. Then he packed the rest into 5-kg sacks. He sold each 5-kg sacks at $11.20 per sack. How much money did he collect from the sale of the 5-kg sacks?

Ans: _____ [4]

14   Limin collected a total of $198 for her donation card, consisting of $2-notes, $5-notes and $10-notes. If she collected thrice as many $5-notes as $10-notes and 4 times as many $2-notes as $10-notes, how many notes did she have in all?

Ans: _____ [4]

15 The figure below is made up of two overlapping trianales. The length

of EG is twice the length of BD. Given that EG is 10 cm and $\frac{1}{4}$

of $\triangle ABC$ is shaded, AD = DC = CG and DG = GF, find the total area

of the shaded parts.

Ans: _____ [4]

16   Mr Wong is now 4 times as old as his daughter, Ailing.   5 years ago, when Ailing was 3 years old, Mr Wong was $\dfrac{9}{10}$ of their total age then. In 16 years' time, how many times will Mr Wong be as old as Ailing?

Ans: _____ [5]

17   In class 5A, there were $\frac{1}{2}$ as many girls as boys.   In class 5B, there were $\frac{1}{3}$ as many boys as girls.   The number of boys in class 5B was $\frac{2}{3}$ as many as the number of girls in class 5A.   There were 32 pupils in class 5B.

(a) Express the number of pupils in 5B as a fraction of the number of pupils in 5A.
Leave your answer in its simplest form.

(b) After some boys were transferred from 5A to 5B, there were $\frac{1}{2}$ as many of 5B boys as the number of 5B girls.   How many pupils were there in class 5B after the transfer?

Ans: (a) _____ [2]

(b) _____ [3]

18   Mdm Suri wanted to buy some game sets for her school. 4 sets of board games and 3 sets of card games cost $270. 3 sets of board games and 4 sets of card games cost $251.50. She decided to buy board games only. What was the maximum number of board games she could buy with $500?

Ans: _____ [5]

END OF PAPER

ANSWER SHEET

<u>EXAM PAPER 2013</u>
SCHOOL : NANYANG
SUBJECT : PRIMARY 5 MATHEMATICS

TERM : SA1

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

16)420000   17)12912   18)1030   19)2   20)1/21

21)18.02   22)0.084   23)9.3   24)$3_{1/12}$ 25)6 − 2

26)46   27)759   28)30cm$_2$ 29)19.22   30)20/1000

<u>Paper 2</u>
1)3842 ≈ 3840
  637 ≈ 640
  86 ≈ 90
  3840 − 640 + 90 = 3290

2)7units→259 + 35 = 294
  1unit→294÷7 = 42
  42 x 3 − 35 = 91

3)orange drink→0.84L + 1.26L = 2.1L
  1 jug→2.1L÷2 = 1.05L
  = 1050ml

4) $2875g = 2.875kg = 2\frac{7}{8}$
   Total→$2\frac{7}{8}kg + 4\frac{3}{8}kg = 7\frac{1}{4}kg$

5) $10 \times 3 = 30$
   $8\frac{3}{5} \times 3 = 25\frac{4}{5}$
   $30 - 25\frac{4}{5} = 4\frac{1}{5}$

6) last page $357 - 1 = 356$
   Two centre pages→$357 \div 2 = 178.5$→1 page
   $178 + 1 = 179$→second centre page
   Product→$178 \times 179 = 31862$

7) $3h = 180min$→$6 \times 30min$
   Cloth→$6 \times 3\frac{1}{4}m = 19\frac{1}{2}m$
   Cloth→$19\frac{1}{2}m \times 2 = 39m$

8) a) AC→$6cm \times 2cm = 12cm$
   $16cm - 12cm = 4cm$
   ACD→$\frac{1}{2} \times 4cm \times 5cm = 10cm^2$
   b) $90cm^2$

9) $1\frac{1}{4}m^2$

10) 13

11) a) 16
    b) 94

12) 3500ml

13) $336

14) 48

15) $33.75cm^2$

16) 24

17) a) 8/9
    b) 36

18) 10

RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 1
MATHEMATICS (PAPER 1)
PRIMARY 5

Name: _____ (   )

Form Class: P5 _____   Banded Math Class: P5 _____

Date: 9 May 2013   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. Question **11** to **15** carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade your answer (1, 2, 3 or 4) on the OAS provided. All diagrams are not drawn to scale.

---

1. In 803 762, the digit 8 is in the _____ place.

    (1)   hundreds

    (2)   thousands

    (3)   ten thousands

    (4)   hundred thousands

2. $288 \times 5 = 188 \times 5 + 200 \times 5 -$ _____ $\times 5$

    (1)   10

    (2)   50

    (3)   100

    (4)   500

3. What is the volume of the cuboid shown?

(1) 120 cm³

(2) 320 cm³

(3) 16 00 cm³

(4) 32 000 cm³

4. $\frac{6}{9} = \frac{\square}{12}$ What is the missing number in the box?

(1) 8

(2) 2

(3) 3

(4) 9

5. Express $\frac{38}{7}$ as a mixed number. The answer is _____.

(1) $3\frac{5}{7}$

(2) $4\frac{1}{7}$

(3) $5\frac{3}{7}$

(4) $7\frac{3}{5}$

6. Which unit shape is used for the tessellation below?

(1)

(2)

(3)

(4)

7. Find the product of 42 thousandths and 9 ones.

   (1)   0.378

   (2)   3.78

   (3)   37.8

   (4)   378

8. Express 3.25 as a mixed number in its simplest form.

   (1) $3\dfrac{1}{4}$

   (2) $3\dfrac{25}{100}$

   (3) $3\dfrac{2}{5}$

   (4) $3\dfrac{1}{25}$

9. 30 mℓ of mango syrup is mixed with 150 mℓ of water to make a glass of mango drink. Using this ratio, how much water is needed when 200 mℓ of mango syrup is used?

   (1)   50 mℓ

   (2)   60 mℓ

   (3)   1000 mℓ

   (4)   1200 mℓ

10. The length of a pole when rounded off to the nearest metre is 2 m. Which of the following could be the actual length of the pole?

    (1)   1m 12 cm

    (2)   1m 18 cm

    (3)   2m 15 cm

    (4)   2m 99 cm

11. What is the total shaded area in the figure below?

1 cm

1 cm

    (1) 8.5 cm^2

    (2) 12.5 cm^2

    (3) 16.5 cm^2

    (4) 20.5 cm^2

12. Which one of the following shape has no line of symmetry?

(1)

(2)

(3)

(4)

13. The diagram below shows a piece of torn paper.
In which column is the number 37 written?

A	B	C	D
2	3	4	5
6	7	8	9
10	11	12	13
14	15		

(1) A

(2) B

(3) C

(4) D

14. The solid below is made up of some identical 1-cm cubes.
What is the volume of the solid?

(1) 12 cm³

(2) 13 cm³

(3) 20 cm³

(4) 21 cm³

15. Tom gave $\frac{2}{5}$ of his money to his mother. He then used $120 to buy some books and had $\frac{1}{2}$ of his money left. How much money did he have at first?

(1) $300

(2) $600

(3) $1080

(4) $1200

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. Form the smallest 5-digit even number with the following digits.

$$6, \quad 9, \quad 8, 5, \quad 1$$

Ans: _____

17. ☐ + 5 hundredths = 1.73

Express your answer in decimals.

Ans: _____

18. The tank below has a square base of side 10cm.
The shaded area is 120 cm².
What is the volume of the tank?

10 cm

Ans: _____cm³

19.   Draw the line of symmetry for the diagram shown below.

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. Sally had $8\frac{2}{5}$ kg of flour. She used $3\frac{3}{4}$ kg of the flour to make a cake.

How much flour had she left?

Ans: _____ kg

22. Express $1\frac{1}{7}$ as a decimal, correct to 2 decimal places.

Ans: _____

23. Gina bought 5 cupcakes at $2.85 each.
She gave the cashier $50.
How much change did she receive?

Ans:$ _____

.24. Jenna jogged a total distance of 19.25 km in a week.
She jogged the same distance every day.
How far did she jog each day?

Ans: _____km

25. Shade the 2 unit shapes that are wrongly tessellated in the diagram below.

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. Arrange the following fractions in descending order:

$$\frac{1}{2}, \quad \frac{7}{8}, \quad \frac{1}{4}, \quad \frac{5}{12}$$

Ans: _____

27. Find the value of

$$210 - 400 \div 5 + 120 \div 4$$

Ans: _____

28. Tank A is $\frac{2}{3}$ filled with water.

What is the amount of water in Tank A?

45 cm

20 cm

55 cm

Tank A

Ans: _____cm^3

29. How many more squares should be shaded such that the ratio of the number of shaded squares to the number of unshaded squares is 1 : 4?

Ans: _____

30. A tank is filled with 3200 cm^3 of water.
    The area of rectangular surfaces X, Y and Z is 100 cm^2 each.
    What is the height of the water in the tank?

Ans: _____cm

End of Paper-
☺ **Please check your work carefully** ☺

RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 1
MATHEMATICS (PAPER 2)
PRIMARY 5

Name: _____ (   )

Form class: P5 _____   Banded Math Class: P5 _____

Date: 9 May 2013   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. A box weighs 99 kg when it is completely filled with sand.

    It weighs 84 kg if $\frac{2}{9}$ of the sand is removed.

    Find the mass of the sand.

Ans: _____ kg [2]

2. When a number is divided by 3, the remainder is 1.
    When the same number is divided by 4, the remainder is 3.
    What is the smallest possible number?

Ans: _____ [2]

3. Jallene has 3 boxes of sweets. Box A contains thrice as many sweets as Box B.
    Box A contains twice as many sweets as Box C. Box C contains 58 more
    sweets than Box B. How many sweets are there in Box A?

Ans: _____ [2]

4. Grace and Andy shared some money in the ratio 7 : 11.
After each of them spent $22, the ratio of Grace's money to Andy's
money is 5 : 9. Find the amount of money Grace had at first.

Ans: $_____ [2]

5. The area of the shaded part ABCD is 62cm².
Find the area of triangle ABC, given that DX is $\frac{1}{3}$ of BY.

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.   A tank contains three 2-cm cubes.
      3.6 litres of water is needed to fill the tank to its brim.
      What is the base area of the tank?

Ans: _____ [3]

7. There were some apples in basket A, B and C.
    The ratio of the number of apples in basket A to the number of apples in basket B and C was 3 : 4.
    The ratio of the number of apples in basket B to the number of apples in basket A and C was 1 : 4.
    There were 22 less apples in basket C than in basket A.
    Find the total number of apples in all the three baskets.

Ans: _____ [3]

8. Study the figure shown below. Find the area of the shaded part.

Ans: _____ [3]

9. Mr Ong could buy 80 shirts with all his money. If the price of each shirt was reduced by $12, he would be able to buy 30 more shirts.
How much money did Mr Ong have?

Ans: _____ [4]

10. The tables and chairs in a restaurant are arranged as shown below.

Pattern 1

Pattern 2

Pattern 3

(a) How many chairs will there be in Pattern 5?

(b) Which pattern will have 100 chairs?

Ans : (a) _____ [2]

(b) _____ [2]

11. A carpenter removed a section of the wooden block such that it has a hollow centre going through from one end to the other as shown below.

Wooden block with hollow centre   Side view of wooden block

What is the volume of the remaining wooden block?

Ans: _____ [4]

12. James and Nick had a total of $4862.

James spent $\frac{1}{7}$ of his money while Nick spent $\frac{2}{5}$ of his money.

They had an equal amount of money left.
How much money did Nick spend?

Ans: _____ [3]

13. The figure below is made up of 2 squares, PQUV and RSTU.
VU is 16 cm and UT is 12 cm.
Find the area of the shaded part.

Ans: _____ [4]

14. Joseph brought some money for travelling. He spent $\frac{2}{5}$ of his money on T-shirts and $\frac{1}{3}$ of his money on shoes. He then gave \$180 to his brother to pay for the food. He had \$948 left. How much money did he bring for travelling?

Ans: _____ [4]

15. At a confectionary, Mr Ong sold half of his buns and another 300 more buns in the first hour. In the second hour, he sold $\frac{1}{4}$ of the remaining buns.

If 864 buns were left in the end, how many buns were there at first?

Ans : _____ [4]

16. The cost of a blouse was $\frac{3}{4}$ of a dress. June bought 3 blouses and 2 dresses and paid a total of $280.50.

(a) What was the cost of 1 dress?

(b) How much did she spend if she bought 9 blouses and 6 dresses?

Ans: (a) _____ [2]

(b) _____ [2]

17. Four children shared a sum of money equally.

Greg gave $\frac{1}{3}$ of his money to Tom.

Tom then gave $\frac{1}{7}$ of his money to Carl.

Carl then gave $\frac{3}{5}$ of his money and $50 to Mary.

Mary had $770 in the end.

    (a)   How much money did each child have at first?

    (b)   How much money did Tom have in the end?

Ans: (a) _____ [3]

(b) _____ [2]

18. June bought 5 similar pencil cases and 8 similar key chains.
    Each pencil case cost $1.35 more than a key chain.

    If the total cost of the key chains was $14.85 more than the total cost of the pencil cases,

    (a) how much did 1 pencil case cost?

    (b) how much did June spend altogether?

    Ans: (a) _____ [3]

    (b) _____ [2]

    -End of Paper-
    Please check your work carefully ☺

ANSWER SHEET

EXAM PAPER 2013
SCHOOL : RAFFLES GIRLS'
SUBJECT : PRIMARY 5 MATHEMATICS

TERM   : SA1

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

16) 15698   17) 1.68   18) 1200cm$_3$ 19)

20)

21) 4$\frac{13}{20}$kg   22) 1.14   23) $35.75   24) 2.75

25)

26)7/8, ½ , 5/12, ¼   27)160   28)33000cm₃

29)2   30)12cm

Paper 2
1)99 − 84 = 15
  15÷2= 7.5
  7.5 x 9 = 67.5kg

2)7

3)3 − 2 = 1
  1u→58
  6u→58 x 6 = 348

4)11 − 9 = 2
  7 − 5 = 2
  2u→22
  1u→11
  7u→$77

5)3 − 1 = 2
  62÷2 = 31
  31 + 62 = 93cm₂

6)3.6L = 3600cm₂
  2 x 2 x 2 = 8
  3 x 8 = 24
  3600 + 24 = 3624
  3624÷6 = 604cm₂

7)15 − 13 = 2
  2u→22
  1u→11
  15 + 7 + 13 = 35
  35u→11 x 35 = 385

8)½ x 19 x 12 = 114
  ½ x 16 x 20 = 160
  160 − 114 = 46cm₂

9)80 x 12 = 960
  30 shirts→960
  1 shirt→960÷30 = 32
  32 x (80+30) = $3520

10)a)5 − 3 = 2

$2 \times 6 = 12$

$22 + 12 = 34$

b)100 − 22 = 78

$78 \div 6 = 13$

$13 + 3 = 16$

11)$8 \times 8 \times 20 = 1280$

$4 \times 4 \times 20 = 320$

$1280 - 320 = 960cm_3$

12)J left→6/7

N left→3/5 = 6/10

J→7u

N→10u

17u→4862

1u→4862÷17 = 286

4u→286 × 4 = $1144

13)A→16 + 12 = 28

½ × 28 × 16 =224

B→½ × 4 × 16 = 32

D→½ × 12 × 12 = 72

$224 + 32 + 72 = 328$

$16 \times 16 = 256$

12×12 =144

$144 + 256 = 400$

$400 - 328 = 72cm_2$

14)$180 + 948 = 1128$

4u→1128

1u→282

15u→282 × 15 = $4230

15)3u→864

1u→288

4u→288 × 4 = 1152

$1152 + 300 = 1452$

$1452 \times 2 = 2904$

16)a)3 x 3 = 9
     2 x 4 = 8
     9 + 8 = 17
     280.50 ÷ 17 = 16.50
     16.50 x 4 = $66
   b)1B→3 x 16.50 = 49.50
     1D→4 x 16.50 = 66
     9B→49.50 x 9 = 445.50
     6D→66 x 6 = 396
     445.50 + 396 = $841.50

17)a)$420
   b)$480

18)a)8k→14.85 + 5p
     P = k+1.35 x5
     5p = 5k + 6.75
     8k = (5k + 6.75)+14.85
     8k = 5k+ 21.6
     8k − 5k = 21.60
     3k = 21.60
     1k→21.60÷3 = 7.20
     1p = 7.20 + 1.35 = $8.55
   b)5p + 8k = (8.55 x 5)+ (7.2 x 8) = $100.35

Rosyth School
First Semestral Assessment 2013
Primary 5 Mathematics

Name: _____ Register No. _____

Class: Pr 5 - _____

Date: 14th May 2013   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 5 pages (including this cover page)

1

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 8 less than half a million?

    (1)   500 008
    (2)   500 000
    (3)   499 998
    (4)   499 992

2. Which one of the following are factors of 24 and 36?

    (1)   2 and 16·
    (2)   3 and 8
    (3)   3 and 12
    (4)   4 and 24

3. Mr Raja's monthly income became $5 600 when rounded off to the nearest hundred. Which of the following is most likely to be Mr Raja's actual income?

    (1) $5 549
    (2) $5 639
    (3) $5 659
    (4) $5 709

4. What is the value in the box?

$$\frac{4}{5} = \frac{\square}{20}$$

    (1)   5
    (2)   16
    (3)   20
    (4)   4

2

5. Which of the following has the same value as $\frac{4}{7} \div 8$

(1) $\frac{4}{7} \times \frac{1}{8}$

(2) $\frac{4}{7} \times \frac{8}{1}$

(3) $\frac{7}{4} \times \frac{1}{8}$

(4) $\frac{7}{4} \times \frac{8}{1}$

6. Minah folds some paper cranes for her friends. She folds 10 red, 15 green and 20 blue paper cranes altogether. What is the ratio of the number of green paper cranes to the total number of paper cranes?

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

7. In a pet shop, the number of rabbits to the number of hamsters is 3 : 7. There are 90 rabbits and hamsters altogether, how many hamsters are there in the pet shop?

(1) 7
(2) 27
(3) 30
(4) 63

8. Mrs Lim bought a muffin for each of her pupils. The ratio of the number of chocolate to strawberry to blueberry muffins was 7 : 8 : 14. She bought 56 strawberry muffins. How many pupils did she have in all?

(1) 29
(2) 116
(3) 203
(4) 232

9. The average mass of Susan, Muthu and Halimah is 34 kg. The total mass of Susan and Muthu is 62 kg. What is Halimah's mass?

   (1) 32 kg
   (2) 40 kg
   (3) 48 kg
   (4) 65 kg

10. The total mark scored by Eddie, Osman, Xiao Ming and Sujendran in a Mathematics test is 328. If Eddie scored 85 marks, what is the average mark scored by the other 3 boys?

   (1) 61
   (2) 73
   (3) 81
   (4) 82

11. Amanda bought 36 packets of sweets with 12 sweets in each packet. She shared them equally with Faridah, Yuki and Jeevana. How many sweets did each girl get?

   (1) 18
   (2) 83
   (3) 108
   (4) 144·

12. Joel has $\frac{3}{4}$ as many stamps as Samy and $\frac{2}{3}$ as many stamps as Troy. What is the ratio of Samy's stamps to the total of Joel and Troy's stamps?

   (1) 6 : 17
   (2) 8 : 15
   (3) 8 : 23
   (4) 9 : 14

4

13. What is $\frac{2}{5}$ of 10 kg?

    (1)   40 g

    (2)   250 g

    (3)   4 000 g

    (4)   25 000 g

14. Which of the following gives the biggest value?

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

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

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

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

15. Tom, Mary and Harry have a total of 560 marbles. The ratio of the number of Tom's marbles to that of Mary's marbles is 3 : 4. The ratio of Tom's marbles to that of Harry's is 5 : 7. How many marbles does Mary have?

    (1)   40

    (2)   150

    (3)   200

    (4)   210

Rosyth School
First Semestral Assessment 2013
Primary 5 Mathematics

Name: _____   Register No. _____

Class: Pr 5 - _____

Date: 14ᵗʰ May 2013   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 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. Find the value of 400.4 − 40.04

Ans: _____

17. What is the missing value in the box?

$16 + 60 \div 5 \times 3 - 9 =$ | ? |

Ans: _____

For questions 18 and 19, please refer to the diagram shown below:
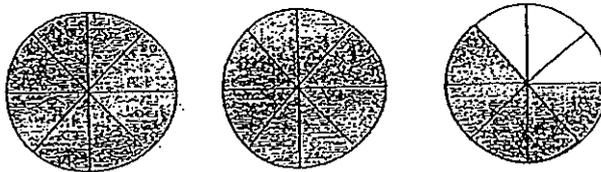
18. What is the mixed number for the shaded parts of the diagram?

Ans: _____

19. What is the improper fraction for the shaded parts of the diagram?

Ans: _____

2

20. Express the ratio 18 : 36 in its simplest form.

Ans: _____

21. A piece of wire which is 55 cm long is cut into 3 pieces in the ratio of 4 : 2 : 5. What is the length of the shortest piece?

Ans: _____ cm

22. Mohan scored 6 851 points in a computer game on Saturday and 3 183 points on Sunday. What were his average points for the 2 days?

Ans: _____

3

23. How many letters in the following word have at least 1 line of symmetry?

| N | U | M | B | E | R | S |

Ans: _____

24. The sum of 3 numbers X, Y and Z is 150. X is 30.
The ratio of Y to Z is 1 : 2. What is Y?

Ans: _____

25. The ratio of boys to girls in a canteen was 2 : 3. There were 22 more girls
than boys. How many boys were in the canteen?

Ans: _____

4

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

(10 marks)

26. Find the value of $3\dfrac{5}{6} + 1\dfrac{1}{4} - \dfrac{1}{2}$

Ans: _____

27. Find the value of $\dfrac{4}{9} \times \dfrac{3}{8}$. Give your answer in the simplest form.

Ans: _____

28. Mdm Su sewed 16 stars on each side of a square table-cloth with one star at each corner of the table cloth. How many stars did she sew altogether on the table cloth?

Ans: _____

5
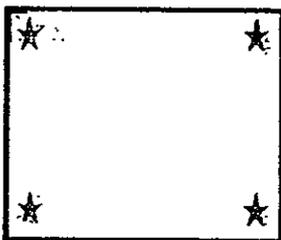
29. Joe had $40 more than Mark. After he received $60 from his father, he has 3 times as much as Mark. How much did Joe have at first?

Ans: $_____

30. $\frac{1}{3}$ of the rectangle (not drawn to scale) shown below is shaded. Find the area of the shaded parts.

Ans/ _____ m²

End of Paper

Rosyth School
First Semestral Assessment 2013
Primary 5 Mathematics

Name: _____   Register No. _____

Class: Pr 5 - _____

Date: 14th May 2013   Parent's Signature: _____

Time: 1 h 40 min

PAPER 2

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

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

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

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. (10marks)

1. Ravi earns $60 a day. His wife earns $12 less than him daily. What is the ratio of Ravi's daily earnings to his wife's daily earnings? Give your answer in the simplest form.

Ans: _____

2. $\frac{1}{5}$ of Emily's money is equal to $\frac{4}{7}$ of Kate's money. Find the ratio of Kate's money to Emily's money.

Ans: _____

3. Mrs Ramos bought 4 similar clocks and 6 similar bags for $394. Each bag cost $1.50 more than each clock. How much did Mrs Ramos pay for a clock?

Ans: $_____

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

3
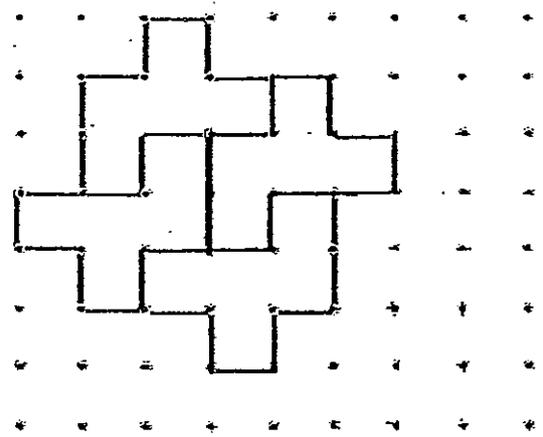
5   A teacher promised 8 pupils equal playing time for a 30-minute board game. Only 2 pupils could play against 2 other pupils at any one time. What was the average play time for each of the 8 pupils?

Ans:_____mins

4

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. June had $351 and Mabel had $256. After June and Mabel had spent $400 altogether on some games, June had twice as much money as Mabel. How much had Mabel left?

Ans: _____ [3m]

7. Mrs Chan bought some books at an average price of $8. Then she decided to buy another book which cost $36. Hence, the average price of the books bought became $12. How many books did she buy altogether?

Ans: _____ [3m]

8. There were 91 people at a gathering. 7 of them were men. There were 21 more women than men. The rest were children. What was the ratio of the number of children to the number of women to the number of men? Give your answer in the simplest form.

Ans:_____[3m]

6

9. Study the pattern below and answer the following questions.
These squares are made by laying out sticks as shown below.

Pattern 1   Pattern 2   Pattern 3

(a) How many sticks are needed to make Pattern 6?

(b) How many squares can be made with 25 sticks?

_____ [1m]

_____ [2m]

7

10. The line graph below shows the number of visitors to the zoo from January to May last year.

(a) How many more people visited the zoo in May than in February?

(b) What was the average number of visitors from Jan to May?

Ans: (a) _____ [1m]

(b) _____ [2m]

8
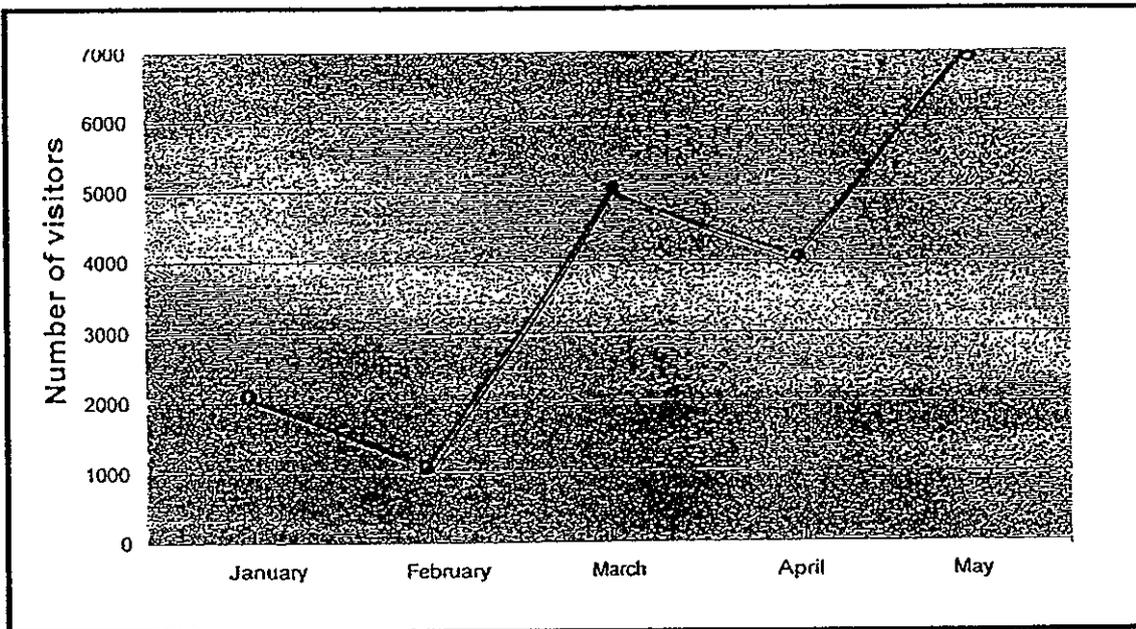
11. Ali had 27 marbles more than Ben. Charles had $\frac{2}{3}$ as many marbles as Ali. They had 165 marbles altogether. How many more marbles did Charles have than Ben?

Ans:_____[4m]

12. The total cost of 7 necklaces and 5 bracelets is $961.

The cost of 3 bracelets is equal to the cost of 2 necklaces.

What is the total cost of 1 necklace and 1 bracelet?

Ans: _____[4m]

13. The average mass of Box A, B and C was 18 kg. When Box D was included, the average mass of the boxes became 21 kg. Box A weighed twice as heavy as Box B. Box C weigh 750 g heavier than Box D.

a) What was the mass of Box B in kilogramme?

b) What was the difference in mass between Box B and Box D?

Ans: (a) _____ [3m]

(b) _____ [1m]

14. Omar has a total of 56 coins. They are either 10-cent coins, 20-cent coins or 50-cent coins. He has thrice as many 20-cent coins as 50-cent coins and 16 more 10-cents coins than 50-cents coins. What is the total value of all his coins?

Ans:_____ [4m]

15. A calculator cost $15 and a watch cost 3 times as much as a calculator. Jenny bought some calculators and watches for $600. She bought 4 more watches than calculators. How many watches did she buy?

Ans:_____ [4m]

16. Amy and Bala had some number cards. If Bala gave Amy 22 cards, they would have equal number of cards If Amy gave Bala 110 cards, Bala would have 4 times as many as Amy.

(a) How many number cards does Amy have?

(b) How many number cards does Bala have?

Ans: (a) _____ [3m]

(b) _____ [2m]

14

17. Mrs Ong had some blue, green and yellow pins in her sewing kit. $\frac{2}{5}$ of the pins were blue. $\frac{1}{8}$ of the remainder was yellow and the rest was green. There were 10 more green pins than blue pins.

(a) What was the total number of pins in the sewing kit?

(b) How many more green pins than yellow pins were there in the sewing kit?

Ans: (a) _____ [3m]

. (b) _____ [2m]

18. Joy spent $\frac{3}{4}$ of her money on 3 blouses and Grace spent $\frac{4}{9}$ of her money on 2 skirts. They were each left with an equal amount of money. One blouse cost $9 more than one skirt. How much money did they have altogether at first?

Ans: _____ [5m]

End of Paper

School: ROYSTH SCHOOL
Subject: PRIMARY 5 MATHEMATICS
Term: SA1

Paper 1

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

16. 360.36

17. 43

18. $2\frac{5}{8}$

19. $\frac{21}{8}$

20. 1 : 2

21. 10

22. 5017

23. 4

24. 40

25. 44

26. $4\frac{7}{12}$

27. $\frac{1}{6}$

28. 16 − 2 = 14
    14 x 4 = 56
    56 + 4 = **60**

29. 2u → 40 + 60 = 100
    1u → 100 ÷ 2 = 50
    3u → 50 x 3 = 150
    At first → 150 − 60 = **90**

30. $\frac{3}{5} \times \frac{1}{4} = \frac{3}{20}$
    $\frac{3}{20} \times \frac{2}{3} = \frac{2}{20}$

$^3/_{20} - ^2/_{20} = ^1/_{20}$

Paper 2

1. Wife → 60 − 12 = 48
   R : W
   60 : 48
   30 : 24
   5 : 4

2. $^1/_5$ E = $^4/_7$ K
   $^4/_{20}$ E = $^4/_7$ K
   E → 20u
   K → 7u
   K : E
   7 : 20

3. Extra → 1.50 x 6 = 9
   10 clocks → 394 − 9 = 385
   1 clock → 385 ÷ 10 = **$38.50**

4.
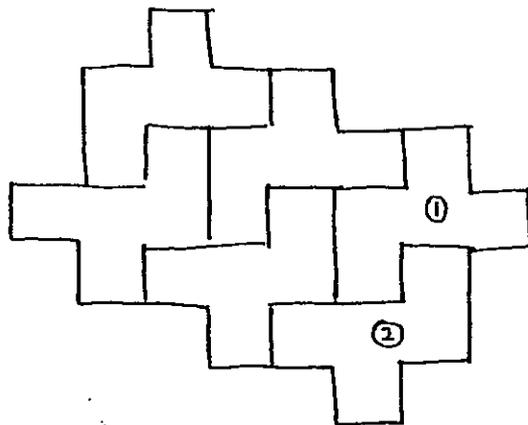
5. Time played → 30 x 4 = 120
   Time for each pupil → 120 ÷ 8 = **15 mins**

6. 351 + 256 = 607
   Left → 607 − 400 = 207
   3u → 207
   1u → 207 ÷ 3 = **$69**

7. Big gap → 36 − 12 = 24
   Small gap → 12 − 8 = 4
   Original books → 24 ÷ 4 = 6
   Total → 6 + 1 = **7 books**

8. No. of women → 7 + 21 = 28
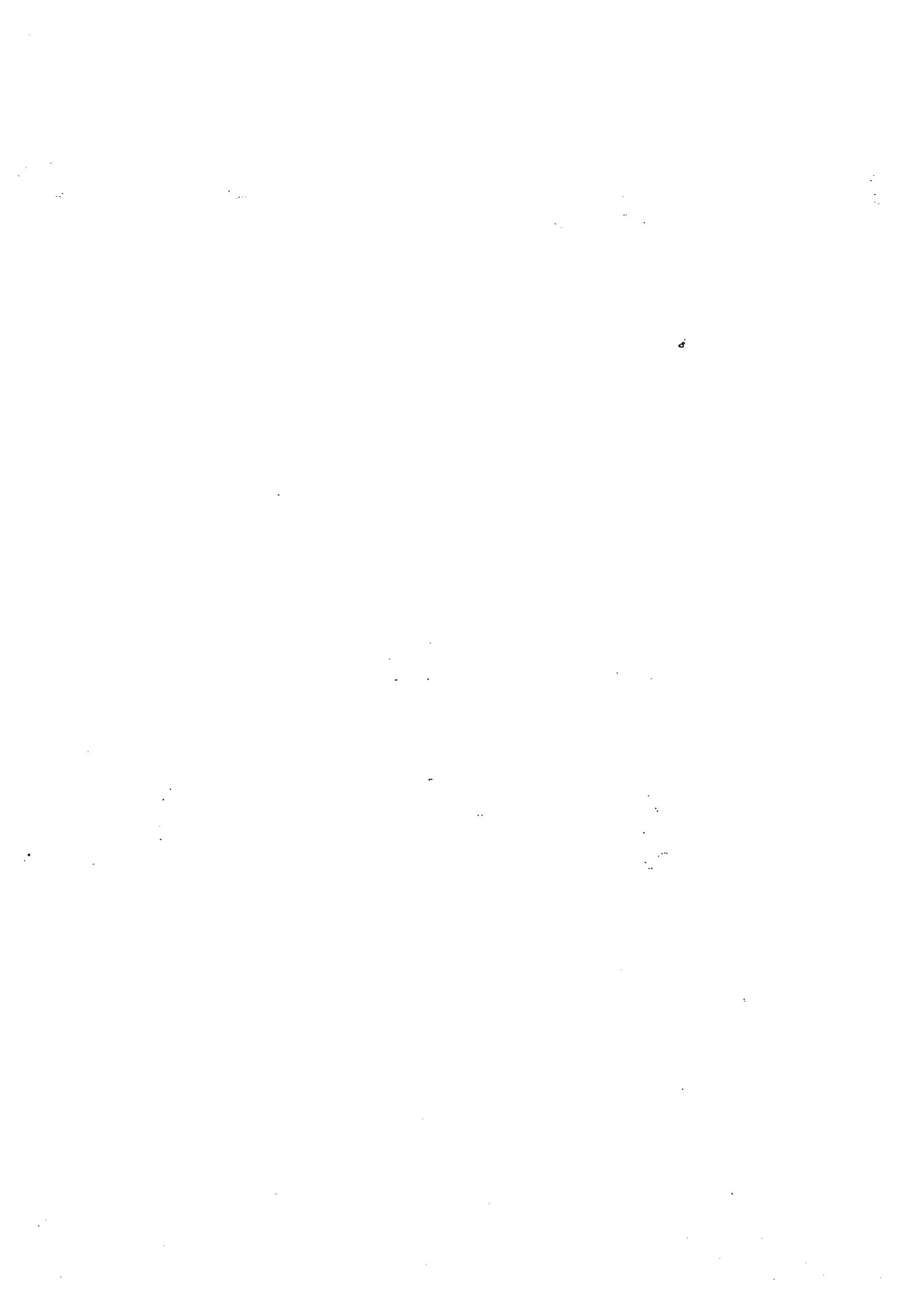
Total adults → 28 + 7 = 35
No. of children → 91 − 35 = 56
  C : W : M
 56 : 28 : 7
  8 : 4 : 1

9. (a) Pattern 6 → 5 x 3 + 4 = **19**

   (b) 1st square → 25 − 4 = 21
     No. of squares → 21 ÷ 3 = 7
     Total squares → 7 + 1 = **8**

10. Difference → 7000 − 1000 = 6000
    Total visitors → 2000 + 1000 + 5000 + 4000 + 7000 = 19000
    Average no. of visitors → 19000 ÷ 5 = 3800
    (a) **6000** more people visited the zoo in max than Feb.

    (b) The average is **3800**.

11. 8u → 165 + 27 = 192
   1u → 192 ÷ 8 = 24
   3u → 24 x 3 = 72
   Ben → 72 − 27 = 45
   Charles → 24 x 2 = 48
   Difference → 48 − 45 = 3
    A :   B : C
   3u : 3u − 27 : 2u
   8u − 27 = 165
   8u → 192
   1u → 24
   2u → 48
   3u − 27 → 3 x 24 − 27 = 45
   Difference → 48 − 45 = **3**

12. 3b = 2n
   7n + 5b = 961
   14n + 10b = 1922
   31b → 1922
   1b → 1922 ÷ 31 = 62
   3b → 62 x 3 = 186
   2n → 186
   1n → 186 ÷ 2 = 93
   1n + 1b = 93 + 62 = **$155**

13. (a) Total (A, B, C) → 18 x 3 = 54
     Total (A, B, C, D) → 21 x 4 = 84
     Box D → 84 − 54 = 30
     3u → 84 − 30 − 30.75 = 23.25
     1u → 23.25 ÷ 3 = **7.75 kg**

(b) 30 - 7.75 = **22.25 kg**

14. 5u → 56 – 16 = 40
   (50¢) 1u → 40 ÷ 5 = 8
   (20¢) 3u → 8 x 3 = 24
   10¢ → 8 + 16 = 24
   Value of 50¢ coins → 8 x 0.50 = $4
   Value of 20¢ coins → 24 x 0.20 = $4.80
   Value of 10¢ coins → 24 x 0.10 = $2.40
   Total value → $2.40 + $4.80 + $4 = **$11.20**

15. Cost of a watch → 15 x 3 = 45
   Cost of 4 watches → 45 x 4 = 180
   Cost of the same number of calculator and watch → 600 – 80 = 420
   Cost of 1 set of watch and calculator → 15 + 45 = 60
   No. of sets → 420 ÷ 60 = 7
   No. of watches → 7 + 4 = **11**

16. 3u → (110 x 2) + (22 x 2) = 264
   1u → 264 ÷ 3 = 88
   Amy → 88 + 110 = 198
   4u → 88 x 4 = 352
   Bala → 352 – 110 = 242
   (a) Amy has **198** numbers of cards.

   (b) Bala has **242** numbers of cards.

17. (a) 21u – 16u = 5u
      5u → 10
      1u → 10 ÷ 5 = 2
      40u → 2 x 40 = **80**

   (b) 21u → 21 x 2 = 42
      3u → 2 x 3 = 6
      Difference → 42 – 6 = **36**

18. ¼J = $^5/_9$G
   $^5/_{20}$J = $^5/_9$G
   J → 20u
   G → 9u
   20u ÷ 4 = 5u
   4u ÷ 2 = 2u
   5u – 2u = 3u
   3u → 9
   1u → 3
   20u + 9u = 29u
   29u → 3 x 29 = **$87**

SINGAPORE CHINESE GIRLS' SCHOOL

FIRST SEMESTRAL ASSESSMENT 2013

PRIMARY 5

MATHEMATICS
PAPER 1

BOOKLET A

Name : _____

Class : Primary

		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

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 245 380.19, what does the digit 9 stand for?

    (1)   9 hundredths

    (2)   9 tenths

    (3)   9 ones

    (4)   9 tens

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

    (1)   15

    (2)   18

    (3)   21

    (4)   25

3    $330\,303 = 300\,000 + 30\,000 + \boxed{} + 3$

What is the missing number in the box?

    (1)   0

    (2)   30

    (3)   300

    (4)   303

4   6290 is 10 tens less than _____.

    (1)   6190

    (2)   6280

    (3)   6300

    (4)   6390

5    $33 \times 10 =$ _____

    (1) $30 + 2 + 1 \times 10$

    (2) $30 + 3 \times 10$

    (3) $33 \times 5 + 5$

    (4) $(30 \times 10) + (3 \times 10)$

6    $34 \div 7 =$ ☐

    (1) $\dfrac{7}{34}$

    (2) $3\dfrac{4}{7}$

    (3) $4\dfrac{6}{7}$

    (4) $30\dfrac{4}{7}$

7   The price of a car was $82 000 after being rounded off to the nearest thousand. Which of the following can be the original price of the car?

    (1) $81 400

    (2) $81 499

    (3) $82 499

    (4) $82 505

8   Find the ratio of the number of soccer balls to the number of cones of ice-cream. Express your answer in its simplest form.
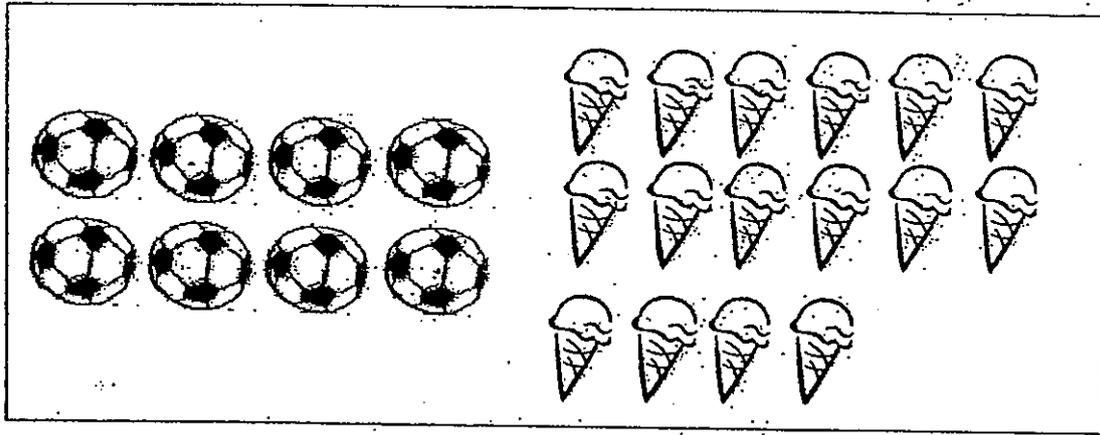
(1)   1 : 2
(2)   2 : 1
(3)   4 : 8
(4)   8 : 4

9    $\frac{4}{5} \div 4$ is the same as _____.

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

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

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

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

3

10   Which of the following is the same as 7090 g?

(1)   7 kg   9 g
(2)   7 kg 90 g
(3)   70 kg   9 g
(4)   70 kg 90 g

11   Study the pattern below.

1   2   3   4   1   2   3   4   1   2   3   ... ...   ?

1st

What will be the 354th digit?

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

12   Tom ran a distance of $\frac{4}{5}$ km and Jane ran $\frac{1}{2}$ of the distance Tom ran. What was the total distance ran by both of them?

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

(2) $1\frac{3}{10}$ km

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

(4) $1\frac{2}{5}$ km

4

13   The total length of 4 ropes is 1020 cm. The length of one of the ropes is 150 cm. What is the average length of the other 3 ropes?

    (1)   190 cm

    (2)   255 cm

    (3)   290 cm

    (4)   340 cm

14   The postage charge for sending a parcel within Country J is shown below.

First 250 g	$6.60
Additional 125g or part thereof	$3.25

What is the postage charge for sending a parcel which weighs 1500 g to Country J?

    (1) $32.50

    (2) $ 39.10

    (3) $66.60

    (4) $62.65

SINGAPORE CHINESE GIRLS' SCHOOL

FIRST SEMESTRAL ASSESSMENT 2013

PRIMARY 5

MATHEMATICS
PAPER 1

BOOKLET B

Name : _____(   )

Class : Primary

Paper 1	Mark attained	Max Mark
Booklet B		**20**

15 Questions
20 Marks

Total Time for Booklets A and B: 50 min

15   Mary has a thick piece of rectangular wood. She took 4 minutes to cut it into 3 equal pieces. How long does it take for her to cut it into 12 equal pieces if she takes the same amount of time to cut each piece?

Note: The cuts were made in the same direction as shown below.

Time Taken: 4 min
Number of pieces: 3 pieces

Time Taken: ? min
Number of pieces: 12 pieces

Wood

Wood
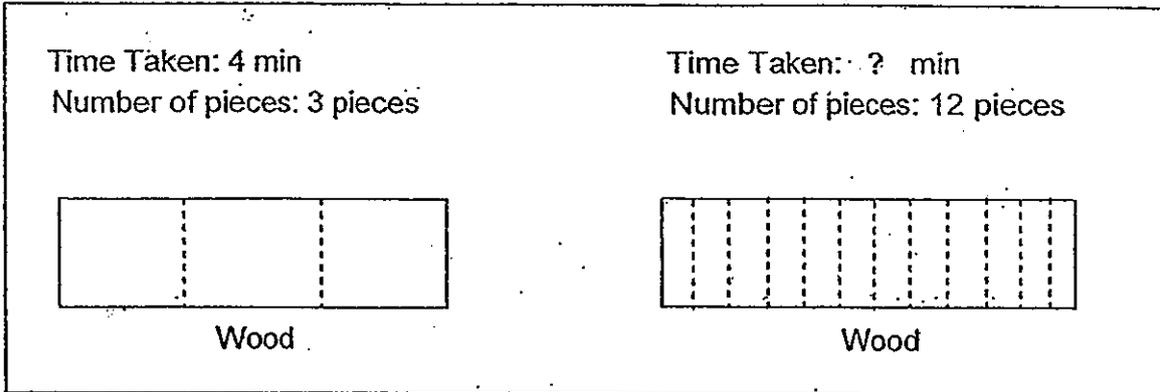
(1)   12 min
(2)   16 min
(3).   22 min
(4) . 24 min

6

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

16.   Write 3 782 456 in words.

Ans: _____

_____

17. $24\ 000 \div 60 =$ _____

Ans: _____

18. $18 - 2 \times 3 + 24 \div 2 =$ _____

Ans: _____

19.   Find the difference between $5\dfrac{7}{12}$ and $2\dfrac{3}{4}$.

Ans: _____
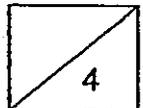
20. Use all the digits below to form the greatest 7 digit odd number. You can only use each digit <u>once</u>.

0   1   2   3   5   6   8
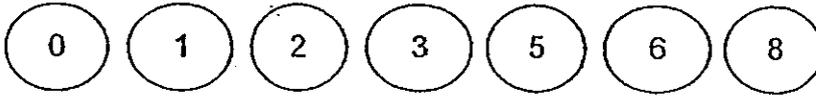
Ans: _____

21. Express $2\dfrac{11}{25}$ as a decimal.

Ans: _____

22. Express 10 km 5 m in metres.

Ans: _____ m

23. What are the common factors of 30 and 48?

Ans: _____

4
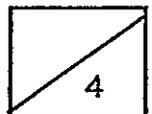
24. The number of girls in class 3P is $\frac{3}{7}$ of the total number of boys and girls in class 3P. What is the ratio of the number of boys to the number of girls?

Ans: _____

25. Study the figure below. How many more squares must be shaded so that only $\frac{1}{3}$ of the figure is left **unshaded**?
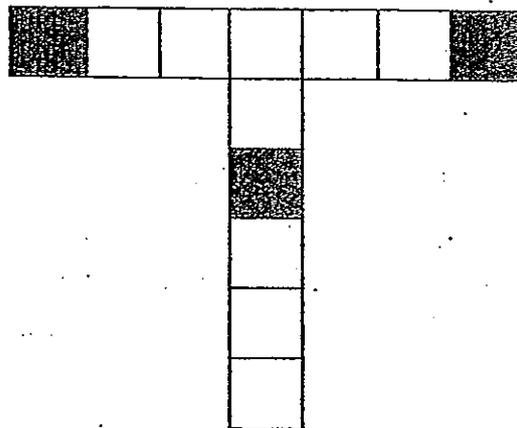
Ans; _____
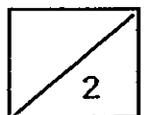
/2

9

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. When a number is divided by 7, the quotient is 472. What is the quotient when the same number is divided by 8?

Ans: _____

27. Complete the number pattern below.

Ans: _____

28. Tommy is 6 years old. His mother is 24 years older than he. In how many years' time will Tommy's mother be four times as old as he?

Ans: _____
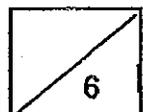
6

SINGAPORE CHINESE GIRLS' SCHOOL

FIRST SEMESTRAL ASSESSMENT 2013

PRIMARY 5

MATHEMATICS

PAPER 2

Name : _____ (.)

Class : Primary 5

Paper 2	Mark	Max Mark
		60

Parent's Signature

18 Questions
60 Marks

Total Time For Paper 2: 1 h 40 min

INSTRUCTIONS TO CANDIDATES
Do not open this booklet until you are told to do so.
Follow all instructions carefully.
Answer all questions.

29.   Complete the figure using the dotted line as the line of symmetry.

30.   Find the perimeter of the figure.

20 cm

5 cm

25 cm

Ans: _____

3   An aeroplane departed Singapore and arrived in Hong Kong at 2.35 am.
     The flight took 3h 50 min. At what time did the aeroplane depart Singapore?

Ans: _____

The line graph shows the number of dogs sold at a shop in the last 4 weeks.
How many more dogs were sold in Week 2 than Week 3?

Number of dogs sold

Week

Ans: _____

4

Questions 1 to 5 carry 2 marks each. Show your working clearly 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 ir
this column

1   Ashley bought 385 marbles. She packed all the marbles into boxes of 9 with some left unpacked. How many marbles were left unpacked?

Ans: _____

2   A watch and a pen cost $38.50. A watch and a teddy bear cost $68.95. A pen and a teddy bear cost $39.99. Find the total cost of a watch, a pen and a teddy bear.

Ans: _____

4
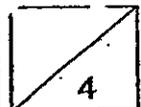
5   Joyce had 168 beads. She gave $\frac{1}{3}$ of her beads to her friends, Valerie and Jane. Valerie and Jane received the same number of beads from Joyce. How many beads did each friend receive?

Ans: _____

2

3

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

Do not write in this column

6   Joan, Mabel and Grace picked up 902 seashells from the beach. The mass of

50 seashells is $\frac{3}{8}$ kg What is the total mass of the seashells they had picked?

Express your answer as a decimal, correct to 2 decimal places.
Give your answer in kg.

Ans: _____ [3]

7 .   Box A can hold either 60 small books or 48 big books. If there are already 10

small books and 12 big books in Box A, how many more big books can Box A

still hold?

Ans:_____ [3] .

4

8 $\frac{3}{8}$ of spectators at a basketball match are children There are 360 more adults than children. The ratio of women to men is 2:7. How many more men than women are there at the basketball match?

Ans: _____ [3]

9 Jane bought some stickers in her school bookshop and decided to share some with her friends. If she gave each friend 15 stickers, she would have 6 stickers left. If she gave each of them 17 stickers, she would be short of 4 stickers. How many friends did Jane have?

Ans: _____ [3]

6.

5
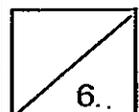
10 The table below shows the number of people and the number of passes in

Driving Test in 4 driving centres.

(a) Which centre has the highest fraction of passes in Driving Test?
(b) What is the overall fraction of passes in Driving Test for the 4 centres?

Driving Centres	Woodlands	Jurong	Cathay	Bedok
Number of people.	250	360	380.	220
Number of passes in Driving Test	210	210	210	210

Ans: a) _____ [1]

b) _____ [2]

11 May and Faith had the same number of beads at first. May gave $\frac{3}{4}$ of her

beads away and Faith gave $\frac{1}{3}$ of her beads away. May had 15 beads less than

Faith after that. How many beads did May give away?

_____ [4]

7

6
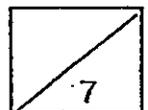
12   A dress cost twice as much as a skirt. A jacket cost $1\frac{1}{2}$ times as much as a

dress. Mrs Wong paid $1360 for 2 skirts, 3 dresses and 4 jackets.

(a) Find the cost of a skirt.
(b) Find the cost of a jacket.

Ans. a) _____[3].

b) _____'[4].

13   Clara bought 340 red and blue pens. $\frac{2}{5}$ of the red pens is equal to $\frac{4}{7}$ of the

blue pens. If she paid $1.25 for each red pen, how much did she pay for all
the red pens?

Ans; _____[4].

14 Zoe uses $\frac{1}{3}$ of her money to buy a dress and $\frac{1}{4}$ of the remaining amount to buy some magazines. After that, she uses $\frac{2}{5}$ of the rest of the money to buy a present. If she has $54 left, how much money did she spent on the magazines?

Ans: _____ [4]
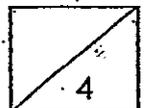
15   The ratio of the number of chickens to the number of cows on a farm is
      7 : 5. These animals had a total of 272 legs.

      (a) How many chickens are there on the farm?

      (b) After selling some chickens, the ratio of the number of chickens
           to the number of cows left became 9 : 10. How many chickens were
           sold?

Ans: a) _____ [3]

         b) _____ [2]
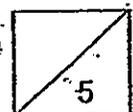
16   Noel and Kim went shopping with $360 and $240 respectively. Kim spent thrice as much as Noel. After shopping, the amount of money Noel had left was thrice that of kim. How much did they spend altogether?

Ans: _____ [4]
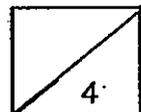
17   The following patterns are made up of white and coloured circles.
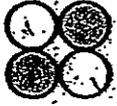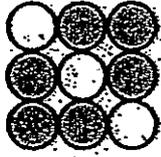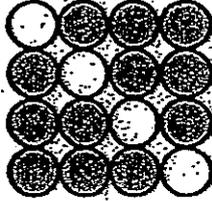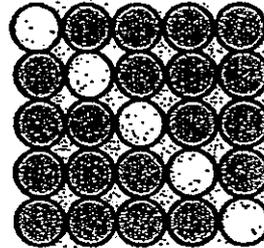
Figure 1   Figure 2   Figure 3   Figure 4

(a) How many white circles will there be in Figure 88?
(b) How many coloured circles will there be in Figure 88?
(c) Which figure is made up of 144 circles?

Ans: a) _____ [1]

        b) _____ [2]

        c) _____ [2]

5
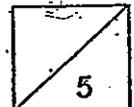
18   Tom has 2 bags of rubber balls. Bag A contains 192 more rubber balls than Bag B. Tom transfers 570 rubber balls from Bag A to Bag B. Now Bag B contains 4 times as many rubber balls as Bag A. How many rubber balls are there in each bag at first?

Ans: Bag A _____[3]

Bag B _____[2]

5
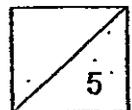
End of Paper
— CHECK YOUR WORK CAREFULLY —

School: SINGAPORE CHINESE GIRLS' SCHOOL
Subject: PRIMARY 5 MATHEMATICS
Term: SA1

Paper 1

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

16. Three million, seven hundred and eighty-two thousand, four hundred and fifty-six

17. 400

18. 24

19. 2⅚

20. 8653201

21. 2.44

22. 10005

23. 1, 2, 3 and 6

24. 4 : 3

25. 5

26. The no. is → 472 x 7 = 3304
    Quotient → 3304 ÷ 8 = **413**

27. 8.45 − 8.2 = 0.25
    7.7 − 7.45 = 0.25
    8.2 − 0.25 = **7.95**

28. 3u → 24
    1u → 8
    8 − 6 = **2**

29.

30. 25 x 2 = 50
    20 x 2 = 40
    50 + 40 = **90**
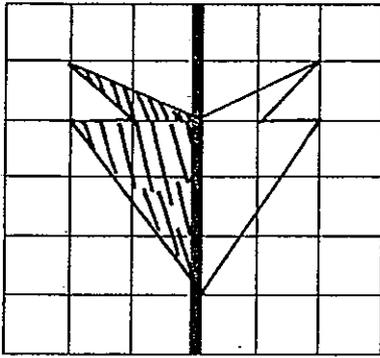
Paper 2

1. Left unpacked → 385 ÷ 9 = 42 R 7
   R → left unpacked
   Therefore **7 marbles** were left unpacked.

2. 2 pen + 2 watches + 2 teddy = $38.50 + $68.95 + $39.99
                                 = $147.44
   $147.44 ÷ 2 = **$73.72**

3. Time aeroplane depart Spore in hrs → 2.35 a.m. – 3h = 11.35 p.m.
   Time aeroplane depart Spore → 11.35 p.m. – 50 min
                                 = 11.00 p.m. – 15 mins
                                 = **10.45 p.m.**

4. 225 – 150 = **75 dogs**

5. Gave friends → 168 x ⅓ = 56 beads
   Left → 168 – 56 = 112 beads
   Each → 56 ÷ 2 = **28 beads**

6. $\frac{8}{8}$ = 1 kg
   1 kg = 1000 g
   1u → 1000 ÷ 8 = 125 g
   $\frac{3}{8}$ → 125 x 3 = 375 g
   50 seashells → 375 g
   1 seashell → 375 ÷ 50 = 7.5 g
   902 ÷ 50 = 18 R 2
   18 x 375 = 6750 g
   7.5 x 2 = 15 g
   6750 + 15 = 6765 g
               = 6.765 kg
               = **6.77 kg**

7. $^{48}/_{60} = \frac{4}{5}$

   $\frac{4}{5} \times 10 = 8$

   $48 - (8 + 12) = 28$

8. 3u → Children

   8u − 3u = 5u

   5u → Adults

   5u − 3u = 2u

   W : M

    2 : 7

   2u → 360

   1u → 360 ÷ 2 = 180

   Adults → 180 x 5 = 900

   7 + 2 = 9

   1 part → 900 ÷ 9 = 100

   Women → 100 x 2 = 200

   Men → 100 x 7 = 700

   Difference → 700 − 200 = 500

9. 17 − 15 = 2

   4 ÷ 2 = 2

   75 + 6 = 81

   85 − 4 = 81

   6 + 4 = 10

   10 ÷ 2 = 5

10. (a) Bedok

    (b) Total passes → 210 x 4 = 840

        Total no. of people → 250 + 360 + 380 + 220 = 1210

        Overall fraction = $^{84}/_{121}$

11. ¾ - ⅓ = $^{5}/_{12}$

    $^{5}/_{12}$ of beads → 15 beads

    $^{1}/_{12}$ of beads → 15 ÷ 5 = 3

    $^{9}/_{12}$ of beads → 3 x 9 = 27

12. (a) Total units → 2 x 1 + 2 x 3 + 4 x 3 = 20

        20u → $1360

        1u → 1360 ÷ 20 = $68 (Cost of a skirt)

    (b) Jacket → 68 x 3 = $204

13. 340 ÷ 17 = 20

    10 x 20 = 200

    200 x 1.25 = $250

14. 1u → 54 ÷ 3 = 18

    18 x 5 = 90

    90 ÷ 3 = $30
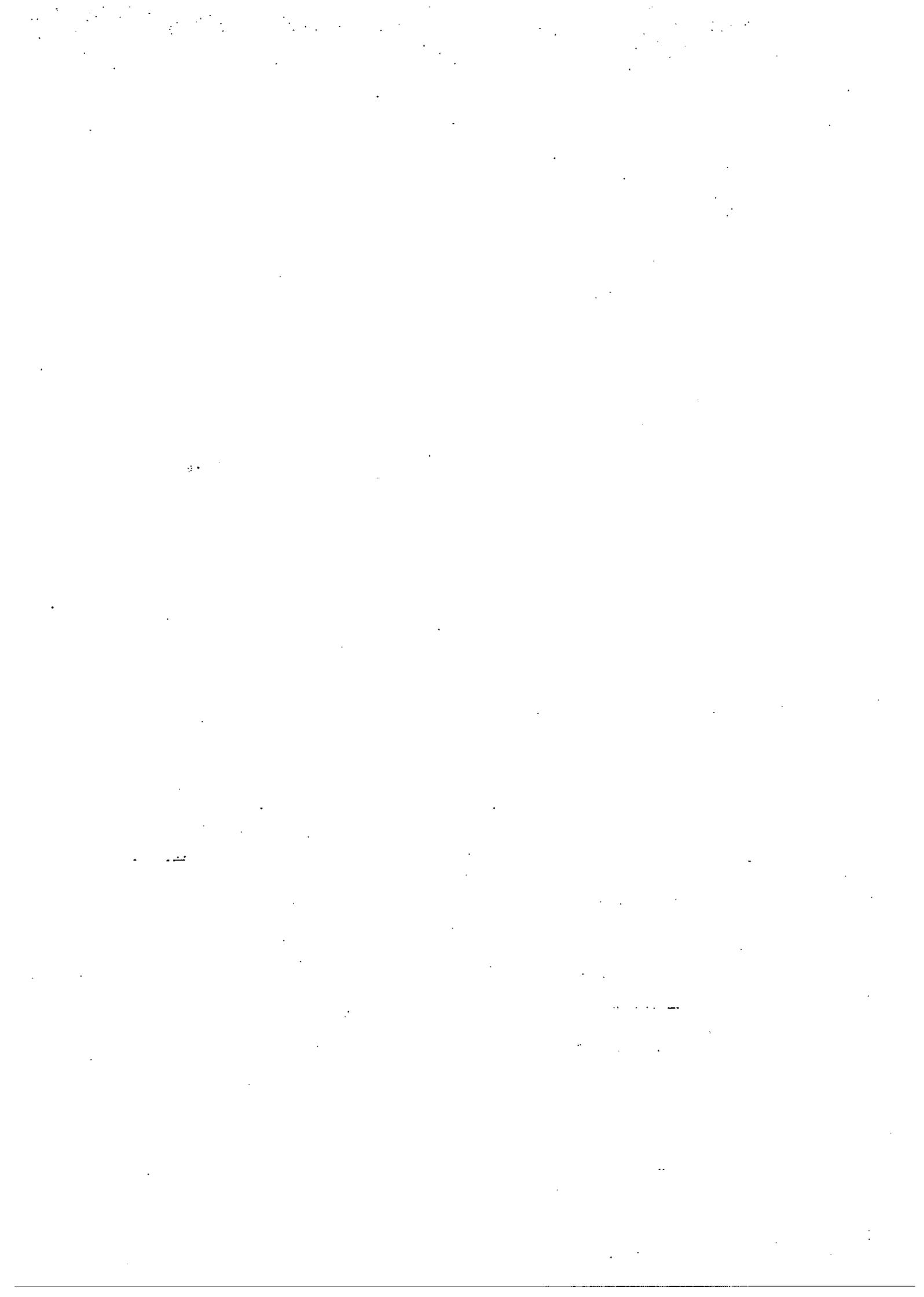
15. (a) 7 x 2 + 5 x 4 = 34
   No. of sets → 272 ÷ 34 = 8
   No. of chicken → 8 x 7 = **56**

   (b) Chickens : Cows
   　　　　7 : 5
   　　　 14 : 10
   　　　　9 : 10
   　 14u – 9u = 5u
   　 40 ÷ 10 = 4
   　 56 ÷ 14 = 4
   　 4 x 5 = **20**

16. A → Spending
   B → Left
   Noel: 3B + A = 360
   Kim: B + 3A = 240
   3B + A = 360 → 9B + 3A = 1080
   1080 – 240 = 840
   8B → 840
   B → 840 ÷ 8 = 105
   240 – 105 = 135
   135 ÷ 3 = 45
   45 x 4 = **$180**

17. (a) 88 + 1 = **89**

   (b) Fig 1: 1 x (1 + 1) = 2
   　 Fig 2: 2 x (2 + 1) = 6
   　　　　　：
   　　　　　：
   　 Fig 88: 88 x (88 + 1) = **7832**

   (c) Fig 1: 4 circles = 2 x 2
   　 Fig 2: 9 circles = 3 x 3
   　　　　　：
   　　　　　：
   　 Fig 11: 144 circles = 12 x 12

18. 570 – 192 = 378
   570 + 378 = 948
   3u → 948
   1u → 948 ÷ 3 = 316
   (a) 316 + 570 = **886** (Bag A)
   (b) 316 + 378 = **694** (Bag B)
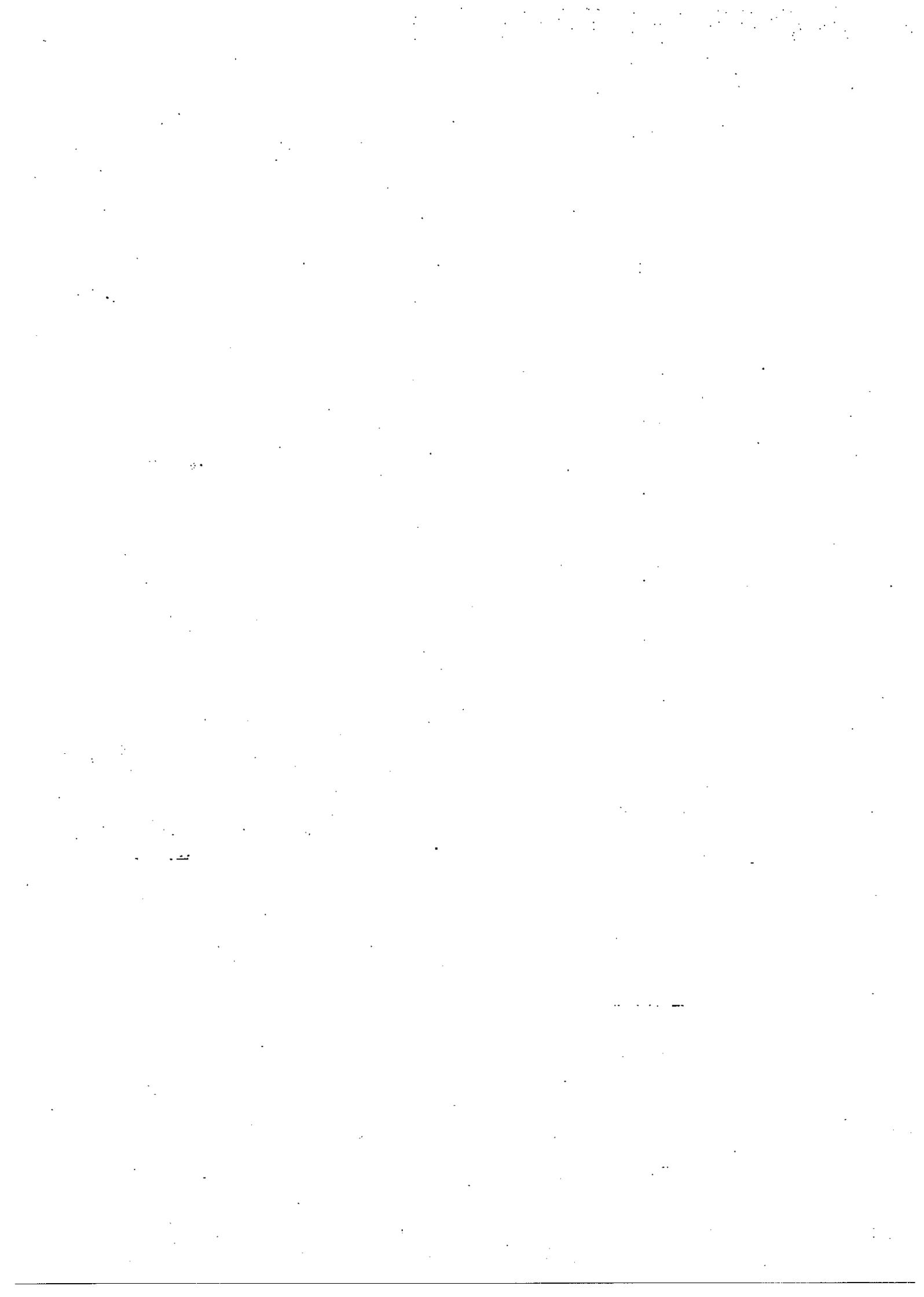
PRIMARY 5 MID-YEAR EXAMINATION 2013

Name: _____(   ) Date: 17 May 2013

Class : Primary 5 (   ) Time: 8.00 a.m. - 8.50 a.m.

Parent's Signature : _____ Marks: _____ / **100**

Paper 1 comprises 2 booklets, A and B.

MATHEMATICS

PAPER 1

(BOOKLET A)

INSTRUCTIONS TO CANDIDATE

1. Write your name, class and register number.

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

3. Follow all instructions carefully.

4. Answer all questions.

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

6. You are not allowed to use a calculator.

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

(20 marks)

---

1. In the numeral 346 890, the digit 3 stands for _____

    (1) $3 \times 1\,000$

    (2) $3 \times 10\,000$

    (3) $3 \times 100\,000$

    (4) $3 \times 1\,000\,000$

2. The numeral for 60 thousands, 20 hundreds and 3 ones is _____.

    (1)   6 023

    (2)   60 203

    (3)   62 003

    (4)   602 003

3. Amy paid $216 for 12 dolls. What was the cost of one doll?

    (1) $20

    (2) $18

    (3) $15

    (4) $13

4. What is the value of $5 - 1\frac{7}{9}$?

   (1) $3\frac{2}{9}$

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

   (3) $4\frac{7}{9}$

   (4) $6\frac{7}{9}$

5. Alice saves $5. Mary saves $3 more than Alice.
   What fraction of their total savings is Mary's savings?

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

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

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

   (4) $\frac{8}{13}$

6. Mark's age is $\frac{2}{5}$ of Mr Tan's age.

   Find the ratio of Mr Tan's age to Mark's age.

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

7. 3 000 people visited the Zoological Gardens on Friday and Saturday. There were 600 more visitors on Saturday than on Friday.

How many visitors were there on Friday?

(1) 1 200
(2) 1 800
(3) 2 400
(4) 3 600

8. $5 \times 18 \times 2 + 12 \times 10 = \boxed{} \times 10$

What is the missing number in the box?

(1) 216
(2) 192
(3) 60
(4) 30

9. Adrian has 282 photographs. He wants to buy some photo albums to keep his photographs. If each album can hold at most 40 photographs, what is the minimum number of albums Adrian needs to buy to keep all his photographs?

(1) 9
(2) 8
(3) 7
(4) 6

10. Study the number pattern below.

What is the missing fraction in the box?

$1\frac{1}{7}$, $2\frac{3}{7}$, $\boxed{}$, 5

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

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

(3) $3\frac{5}{7}$

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

11. Edward has the same number of ten-cent and fifty-cent coins. The total value is $6. How many fifty-cent coins does he have in all?

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

12. A cup is $\frac{1}{3}$ full of water. The water is then poured into an empty jug which can
    contain twice the amount of water in the cup. What fraction of the jug is **not**
    filled with water?

capacity

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

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

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

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

-4-

13. In the figure below, not drawn to scale, ABC is a triangle. BC is 3 times as long as DE. If BC = 12 cm, find the shaded area.
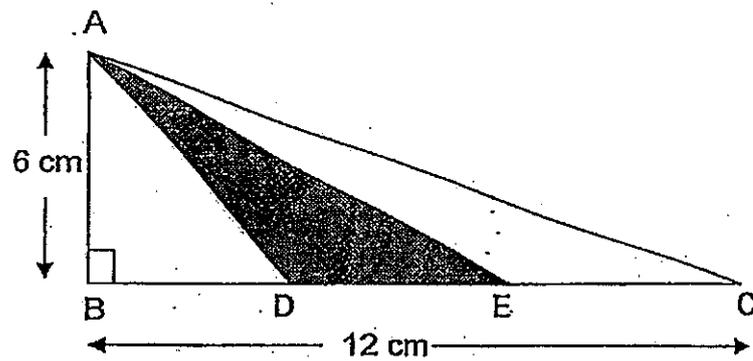
(1)   12 cm²

(2)   24 cm²

(3)   36 cm²

(4)   72 cm²

14. A rope of length 4.7 metres was cut into 8 equal pieces.
Find the length of each piece, corrected to 2 decimal places.

(1)   0.50 m

(2)   0.58 m

(3)   0.59 m

(4)   0.60 m

15. The pattern below is formed by using circles and lines.

| Pattern 1 | Pattern 2 | Pattern 3 | Pattern 4 |
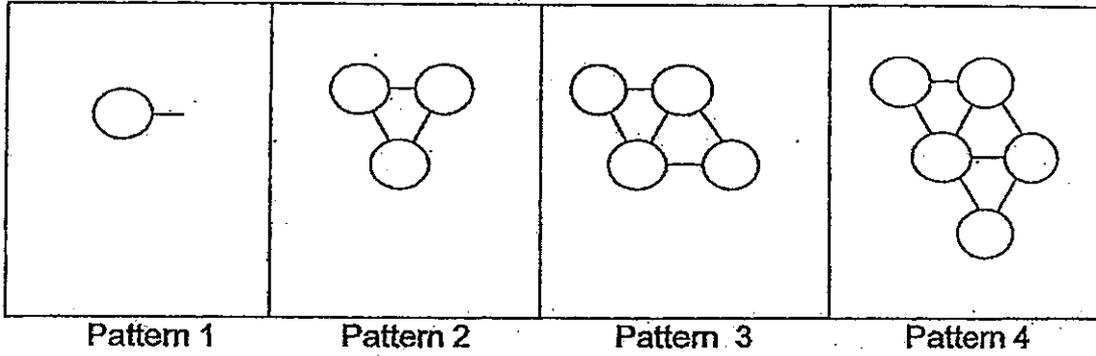
How many lines are needed to make the 10th pattern?

(1) 9
(2) 12
(3) 18
(4) 19

- End of Booklet A -

PRIMARY 5 MID-YEAR EXAMINATION 2013

Name : _____ ( )   Date: 17 May 2013

Class : Primary 5 ( )   Time: 8.00 a.m. - 8.50 a.m.

Parent's Signature : _____

Paper 1 comprises 2 booklets, A and B.
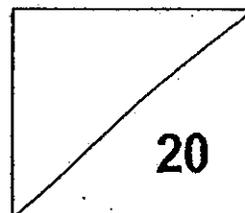
MATHEMATICS

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 the following number in words.

8 304 019   _____

_____

_____

17.   Round off **142 394** to the nearest thousand?

Ans: _____

18.   What is the value of   52 + (46 − 10) ÷ 3 × 2 ?

Ans: _____

- 1 -

19.

$$15\overline{)103\square5}$$ with quotient $6\ 8\ 9$

What is the missing number in the box?

Ans: _____

20. Arrange the following fractions in ascending order.

Ans: _____

21. Find the difference between $3\frac{5}{6}$ and $5\frac{3}{4}$.

Ans: _____

22. The following grid is made up of 2-cm squares.

Find the area of the shaded triangle.

2 cm

2 cm
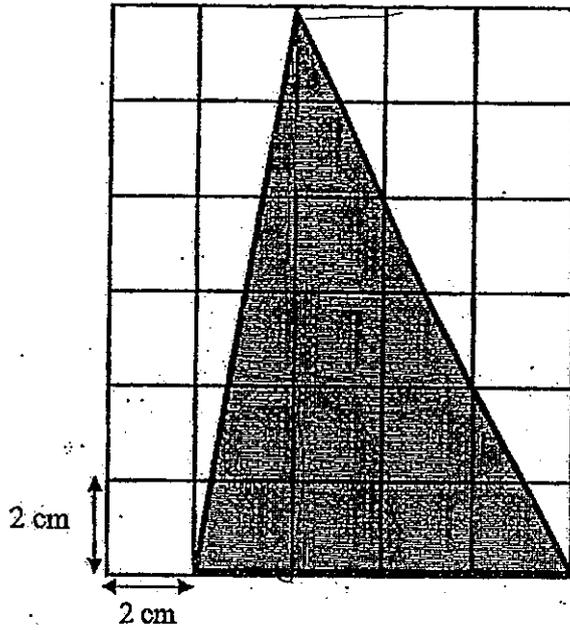
Ans: _____ cm^2

23. A ribbon 50 cm long is cut into 2 pieces in the ratio of 3 : 7.

Find the length of the shorter piece.

Ans: _____ cm

24. At a party, the ratio of the number of boys to the number of girls is 4 : 3. If there were 18 girls, how many more boys than girls were at the party?

Ans: _____

25. How many lines of symmetry does the figure have?
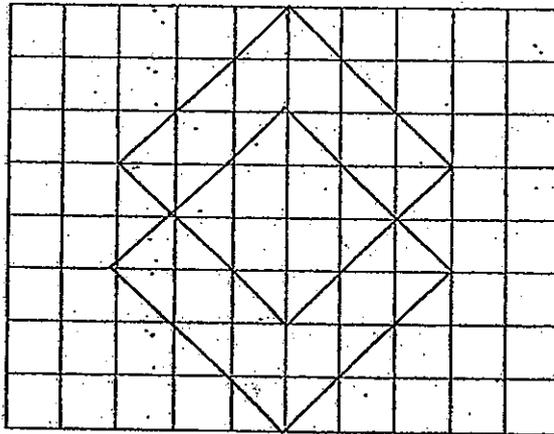
Ans: _____

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. The sum of 2 numbers is 986. The difference between the two numbers is 212. Find the greater number.

Ans: _____

27. If John spends $22 every day, the money he has will last him for 2 weeks. How many days will his money last him if he were to spend $7 a day?

Ans: _____

28. Ryan had 3 times as many marbles as Sam. How many marbles must Ryan give to Sam so that each of them will have 150 marbles?

Ans: _____

29. $\frac{1}{6}$ of a class of pupils celebrate their birthdays in November. $\frac{1}{3}$ of the class of pupils celebrate their birthdays in December. 2 pupils celebrate their birthdays in each of the remaining 10 months. How many pupils were there in the class?

Ans: _____

30. Use the given shape to form a tessellation in the space provided. Draw 3 more of the given shape.
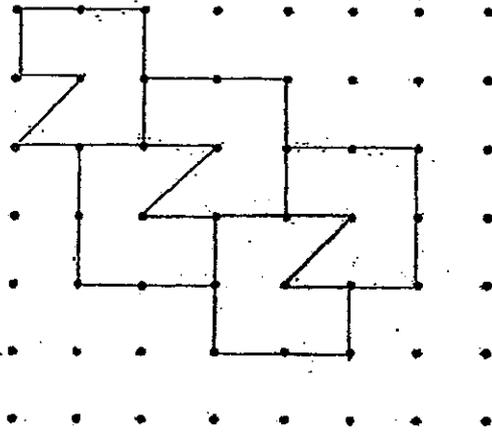
END OF PAPER

PRIMARY 5 MID-YEAR EXAMINATION 2013

Name : _____(   ) Date: 17 May 2013

Class : Primary 5 (   )

Time: 10.00 a.m. – 11.40 a.m.

Parent's Signature : _____

MATHEMATICS

PAPER 2

60
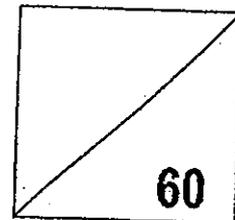
INSTRUCTIONS TO CANDIDATE

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. Megan is 2 times as old as her sister. Four years from now, the sum of their ages will be 35 years. How old is Megan's sister now?

Ans: _____ years old

---

2. The number of green marbles is $\dfrac{3}{5}$ the number of yellow marbles. The number of green marbles is half the number of blue marbles. What fraction of the marbles are yellow?

Ans: _____

---

3. Draw a line parallel to AB through the point X.

B

A

X
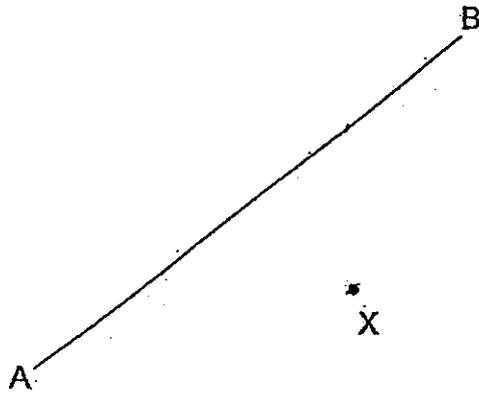
4. In the figure below, not drawn to scale, the area of Triangle E is $\frac{1}{4}$ of the area of Triangle F. What is the area of Triangle E?

8cm

F

E

20 cm
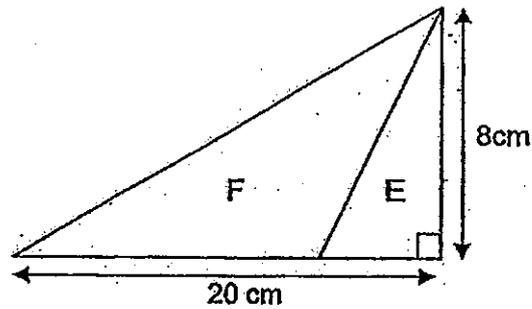
Ans: _____ cm^2

5. $\frac{1}{2}$ of Sally's collection of stamps is equal to $\frac{3}{4}$ of Ellen's stamps.
What fraction of Sally's stamps is Ellen's stamps?

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. Container A contains 34 pencils and Container B contains 22 pencils. How many pencils must be transferred from Container A to Container B so that there is an equal number of pencils in each container?

Ans: _____[3]

---

7. Vera saves $2 every day. For every $12 she saves, her father will give her another $3. How many days does she take to collect $225?

Ans: _____[3]

---

8. The table below shows the bicycle rental charges at a park.

Duration	Charges
1st hour or part thereof	$4.00
Subsequent half hour or part thereof	$1.50

(a) Daniel cycled from 10 a.m. to 11.10 a.m. How much did he pay?

(b) If Shawn paid $7, what was the maximum amount of time he could cycle?

Ans: (a)_____ [1]

(b)_____ [2]

---

9. Mr Taufik has 3 pieces of wire of length 12m, 18m and 30m. He wants to cut them into shorter equal pieces. What is the greatest possible length of each piece of cut wire?

Ans:_____ [3]

---

10. The length of a rectangular pond is 14 m and its breadth is 7 m. Fatimah wants to build a running path around the pond. The width of the path is $\frac{1}{2}$ m. What is the area of the running path?

Ans: _____[3]

11. In the rectangle below, not drawn to scale, the value of $\angle z$ is $\frac{3}{4}$ of $\angle x$.

What is $\angle y$?
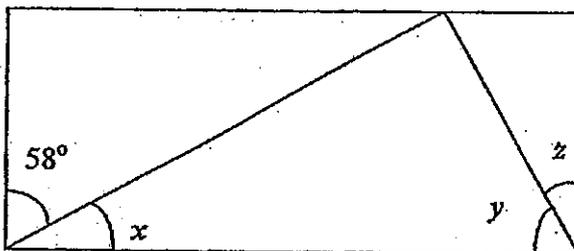
Ans:_____ [3]

12. A bag and a belt cost $70. A bag and a watch cost $250. The watch cost 5 times as much as the belt. Find the cost of the bag.

Ans:_____[4]

13. Three friends, Andy, Barney and Candy donated a sum of $800 to charity. $\frac{1}{2}$ of the amount of money was donated by Andy. Barney's donation was $\frac{2}{3}$ the amount given by Candy. How much money did Candy donate?

Ans:_____[4]

14. In a school science fair, there were exhibits from Class A, Class B and Class C. Altogether, 25 exhibits came from Class B and Class C.

If a total of 16 exhibits were not from Class C and a total of 15 exhibits were not from Class B, how many exhibits were there altogether?

Ans:_____ [4]

15. The figure below, not drawn to scale, shows 3 squares of side 5 cm, 7 cm and 3 cm. Find the area of the shaded part.

5cm   7cm   3cm
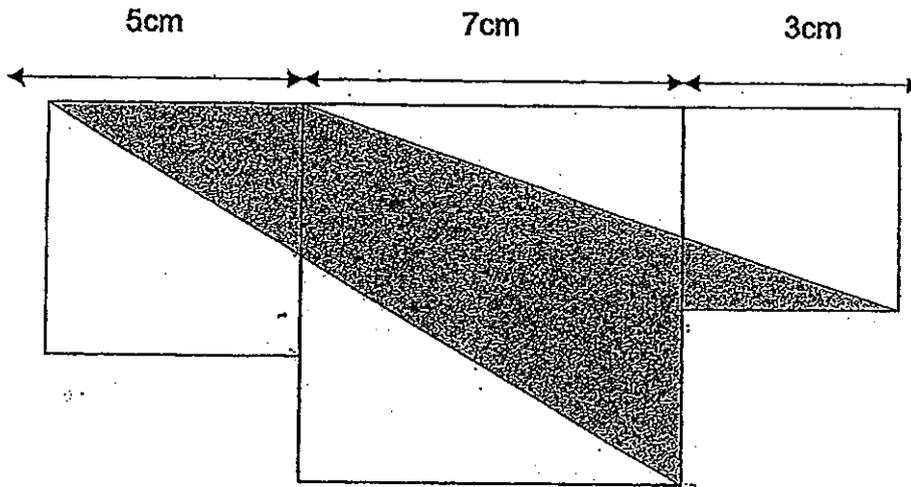
Ans:_____[5]

16. There are some mangoes in 3 baskets, A, B and C. $\frac{2}{5}$ of the number of mangoes in Basket A is equal to $\frac{1}{4}$ of the number of mangoes in Basket B. The number of mangoes in Basket C is $\frac{1}{3}$ of the number of mangoes in Basket B.

(a) If $\frac{1}{2}$ of the mangoes in Basket B are taken out and placed in Basket C, there will be 36 mangoes left in Basket B. How many mangoes are there in Basket A?

(b) What is the total number of mangoes in the 3 baskets?

Ans: (a) _____ [3]

(b) _____ [2]

17. Mrs Lim baked some cupcakes for sale. The first customer bought $\frac{1}{3}$ of the cupcakes and received 8 cupcakes free. The second customer bought $\frac{7}{10}$ of the remaining cupcakes and received 3 cupcakes free. Mrs Lim then had 12 cupcakes left. How many cupcakes did Mrs Lim bake at first?

Ans: _____ [5]

18. Study the number pattern below.

Rows	Number(s)								
1				2					
2			4	6	8				
3		10	12	14	16	18			
4	20	22	24	X	28	30	32		
5	34	36	38	40	42	44	46	48	50

(a) What would be the value of X?

(b) What is the largest number in Row 10?

(c) 288 is the largest number in a certain row. Which row is it?

Ans: (a)_____[1]

(b)_____[2]

(c)_____[2]

END OF PAPER

ANSWER SHEET

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

16) Eight million, three hundred and four thousand and nineteen.

17) 142000 18) 76 19) 3 20) 3/5, 5/7, 7/9, 11/12

21) 1 11/12 22) 48cm2 23) 15cm 24) 6 25) 2

26) 599 27) 44days 28) 75 marbles 29) 40 30)

Paper 2
1) 4 x 2 = 8
   35 − 8 = 27
   27 ÷ 3 = 9 years old

2) 3 + 5 + 6 = 14
   14 − 6 − 3 = 5
5/14 of the marbles are yellow.

3)

Page 1 to 4

4) $\frac{1}{2} \times 20 \times 8 = 80$
   $1 + 4 = 5$
   $80 \div 5 = 16$
   $16 \times 1 = 16cm_2$

5) $6 + 4 = 10$
   $10 - 4 = 6$
   $4/6 = 2/3$

6) $34 + 22 = 56$
   $56 \div 2 = 28$
   $28 - 22 = 6$ pencils

7) $12 + 3 = 15$
   $225 \div 15 = 15$
   $12 \div 2 = 6$
   $6 \times 15 = 90$ days

8) a) $4 + 1.50 = \$5.50$
   b) $7 - 4 = 3$
      $3 \div 1.50 = 2$
      $2 \times 30 = 60$ minutes$\rightarrow$1h
      $1 + 1 = 2$ hours

9) $12 \div 2 = 6$
   $18 \div 6 = 3$
   $30 \div 6 = 5$
   The greatest possible length of each piece of cut wire is 6 metres.

10) $7 + \frac{1}{2} + \frac{1}{2} = 8$
    $14 + \frac{1}{2} + \frac{1}{2} = 15$
    $15 \times 8 = 120$
    $14 \times 7 = 98$
    $120 - 98 = 22$

11) $90 - 58 = 32$
    $32 \div 4 = 8$
    $8 \times 3 = 24$
    $90 - 24 = 66°$

12) $250 - 70 = 180$
    $180 \div 4 = 45$
    $70 - 45 = \$25$

13) $2 + 3 = 5$

$5 + 5 = 10$

$800 \div 10 = 80$

$80 \times 3 = 240$

14) $16 - 15 = 1$

$25 - 1 = 24$

$24 \div 2 = 12$

$12 + 1 = 13$

$15 - 12 = 3$

$13 + 12 + 3 = 28$ exhibits

15) $3 + 2 + 2 = 7$

$5 + 7 = 12$

$\frac{1}{2} \times 7 \times 12 = 42$

$7 + 3 = 10$

$\frac{1}{2} \times 10 \times 3 = 15$

$42 + 15 = 57$

$2 \times 5 = 10$

$57 - 10 = 47$

$5 \times 5 = 25$

$7 \times 7 = 49$

$3 \times 3 = 9$

$49 + 25 + 9 = 83$

$83 - 47 = 36cm_2$

16) a) $2 \times 4 = 8$

$8 \times 3 = 24$

$24 \div 3 = 8$

$24 \div 2 = 12 \rightarrow 36$ mangoes

$36 \div 12 = 3$

$5 \times 3 = 15$

$15 \times 3 = 45$ mangoes

b) $36 \times 2 = 72$

$8 \times 3 = 24$

$45 + 72 + 24 = 141$ mangoes

17) $12 + 3 = 15 \rightarrow 3/10$
   $15 \div 3 = 5$
   $5 \times 10 = 50$
   $50 + 8 = 58 \rightarrow 2/3$
   $58 \div 2 = 29$
   $29 \times 3 = 87$ cupcakes

18) a) $22 - 20 = 2$
      $24 + 2 = 26$
   b) 200
   c) Row 12

Name: _____ (   )   Class: Primary 5 ___

Date: 25 October 2013   Duration of Booklet A & B: 50min

<u>**INSTRUCTIONS TO CANDIDATES**</u>

1. This question paper consists of 7 printed pages.
2. Do not turn this page until you are told to do so.
3. Follow all instructions carefully.
4. Shade your answers on the Optical Answer Sheet (OAS) provided.
5. You are <u>not</u> allowed to use a calculator.

Questions 1 to 10 carry 1 mark each. Question 11 to 15 carry 2 marks each. Make your choice (1, 2, 3 or 4) and shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet (OAS).   (20 marks)

1. How many hundreds are there in 895 300?

    1)   300

    2)   5 300

    3)   8 953

    4)   9 530

2. Find the value of $(67 + 5) + 7 - 4 \times 2$

    1)   71

    2)   75

    3)   78

    4)   150

3. The capacity of a pail is 6 020 cm^3. Express the capacity in litres and millilitres.

    1)   6 ℓ 2 mℓ

    2)   6 ℓ 20 mℓ

    3)   60 ℓ 2 mℓ

    4)   60 ℓ 20 mℓ

4. Sandra spent $\frac{4}{5}$ of her money on food and $\frac{1}{2}$ of the remaining amount on drinks. She spent $15 on drinks. How much money had Sandra at first?

    1) $ 30

    2) $ 60

    3) $ 120

    4) $ 150

2

5. Leonard has 230 cards in a bag. He gives $\frac{2}{5}$ of them to Kaden. How many cards will Kaden get?

    1) 46

    2) 92

    3) 115

    4) 460

6. A baker spent $28.20 on 18 identical packets of flour and 1 packet of sugar. If 6 such packets of flour cost $9, how much did the packet of sugar cost?

    1) $ 0.70

    2) $ 1.20

    3) $ 1.50

    4) $ 1.60

7. The length of a rectangle is 5.7 cm. It is 3 times as long as its breadth. What is the perimeter of the rectangle?

    1) 7.6 cm

    2) 15.2 cm

    3) 17.1 cm

    4) 22.8 cm

8. The figure below is not drawn to scale. PQR, SQU and TQV are straight lines. $\angle PQS = 51°$ and $\angle TQR = 85°$. Find $\angle VQU$.

1) $44°$

2) $51°$

3) $85°$

4) $136°$

4·
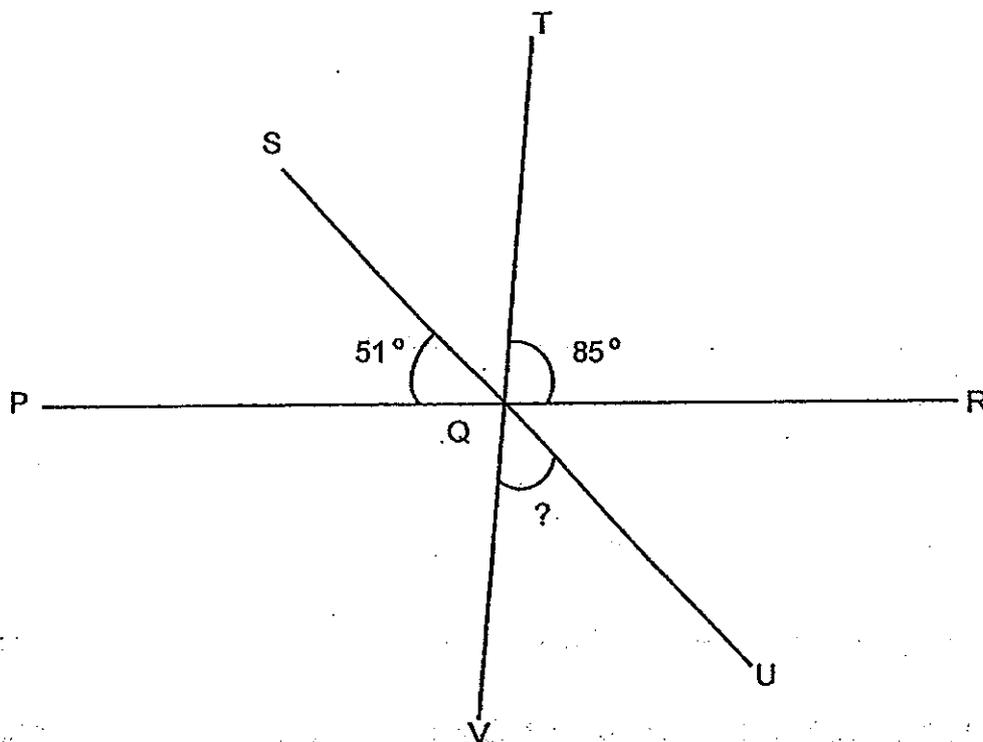
9. Jane scored a total of 86 marks for both her English and Science tests. She scored 65 for her Mathematics test and 77 for her Chinese test. What was her average score for all the 4 tests?

   1) 57
   2) 76
   3) 114
   4) 228

10. Roger spent 30% of his allowance during recess. If he had $4.20 left, what was his allowance?

   1) $ 1.26
   2) $ 2.94
   3) $ 4.50
   4) $ 6.00

11. Gideon bought 5 boxes of curry puffs for a birthday party. If the total mass of the boxes of curry puffs was 5 kg 55 g, what was the mass of one box of curry puff?

   1) 1.011 g
   2) 1.11 g
   3) 1.011 kg
   4) 1.11 kg

12. The figure below is made up of 3-cm cubes. Find its volume.

3 cm
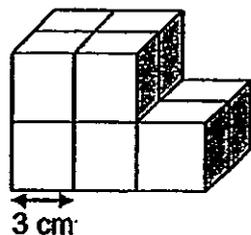
1) 10 cm³

2) 30 cm³

3) 216 cm³

4) 270 cm³

13. The figure below is not drawn to scale. $\angle x$ is $\frac{1}{3}$ of $\angle y$.

Find the value of $\angle y$.

228°

y

x
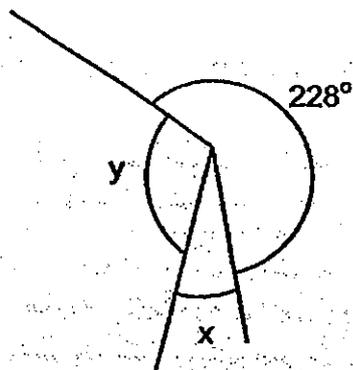
1) 44°

2) 66°

3) 99°

4) 114°

14. The ratio of the number of chocolates Angie had to the number of chocolates Christie had was 5 : 4. The ratio of the number of chocolates Christie had to the number of chocolates Dionne had was 3 : 2. If Dionne had 32 chocolates, how many chocolates did Angie have?

1) 48
2) 60
3) 64
4) 96

15. In a carnival, 52% of the people were children. The rest of the people were either men or women. There were twice as many men as women. If there were 32 women at the carnival, how many people were there at the carnival altogether?

1) 100
2) 200
3) 320
4) 520

Anglo-Chinese School (Primary)

END-OF-YEAR EXAMINATION 2013
MATHEMATICS
PAPER 1 (BOOKLET B)
PRIMARY FIVE

Name: _____ (   )   Class: Primary 5 ___

Date: 25 October 2013   Duration of Paper Booklet A & B: 50 min

_____
Parent's/Guardian's signature

INSTRUCTIONS TO CANDIDATES

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

Paper 1 Booklet A. Multiple-Choice Questions	20	
Paper 1 Booklet B. Short Answers: Part 1	10	
Paper 1 Booklet B. Short Answers: Part 2	10	
Total Marks	40	

Short Answers: Part 1 (10 Questions x 1 Mark)

Questions **16** to **25** carry 1 mark each. Write your answers in the spaces provided. Give your answers to the units stated and to its simplest form whenever necessary.

16. Round off the value of 4 801 − 347 to the nearest hundred.

Answer: _____

17. $\frac{3}{8}$ of a number is 51. What is the number?

Answer: _____

18. A container contains 18 ℓ of lemonade. The lemonade is poured equally into 6 jugs, how much lemonade is there in each jug? Give your answer in millilitres.

Answer: _____ mℓ

2

19. In a computer game, Liam managed to complete 45% of the mission.
    What fraction of the mission was not completed?

    Answer: _____

20. In a class of 40 pupils, 40% of the class do not wear spectacles. $\frac{1}{2}$ of the
    pupils who wear spectacles are girls. How many boys wear spectacles?

    Answer: _____

21. A piece of cloth is cut into three pieces in the ratio 5 : 4 : 1. The longest piece
    is 600 cm. Find the length of the piece of cloth.

    Answer: _____ m

3

22. Mr Kim gave some money to Elliott and Sunny in the ratio 6 : 7. Elliott spent $\frac{1}{2}$ of his money on a folder that costs $6. How much money did Sunny receive from Mr Kim?

Answer: $ _____

23. Box A is 380 g heavier than Box B. Find the mass of Box A if the total mass of the 2 boxes is 2 kg 500 g. Leave your answers in grams.

Answer: _____ g

24. In the figure below, not drawn to scale, QRS is a triangle and $\angle SQR = 45°$.
Find the value of $\angle a + \angle b + \angle c + \angle d$.
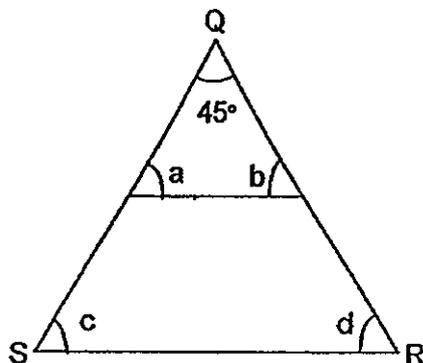
Answer: _____ °

25. In the figure below, not drawn to scale, ABCD is a square and ACE is an isosceles triangle: $\angle AEC = 20°$. Find $\angle EAB$.

Answer: _____ °

Questions **26** to **30** carry 2 marks each. Show all mathematical statements clearly in the space below each question and write your answers in the spaces provided.

26. The figure below is not drawn to scale. XYWZ is a parallelogram. RZ = ZX and RXY is a straight line. $\angle$YWZ = 134°. Find $\angle$XZR.
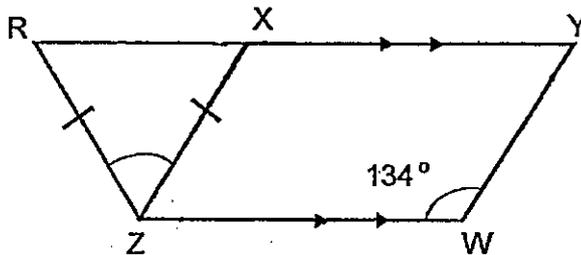
Answer: _____ °

27. Ali has 40 more stamps than Caili. Ray has 30 stamps lesser than Caili and Sean has 20 more stamps than Ray. If 4 of them have an average of 65 stamps, how many stamps does Sean have?

Answer: _____

28. Wei Yan had a total of 400 old coins. 45% of them were local coins. After he had sold some of the foreign coins to a coin collector, the number of local coins made up 80% of the remaining coin collection.
How many foreign coins did Wei Yan sell to the coin collector?

Answer: _____

29. 4 identical right-angled triangles are arranged to form a big square ABCD as shown below. What is the fraction of the area of the small square X to the area of the big square ABCD? Give your answer to its simplest form.

8 cm

6 cm
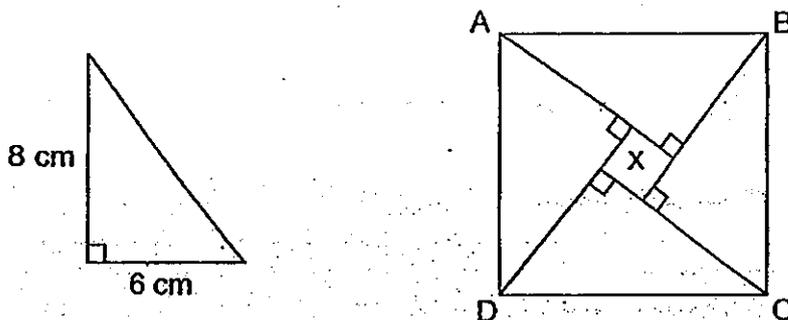
Answer: _____

30. In the figure below, ABCD is a square and ECB is an equilateral triangle. Find ∠p.
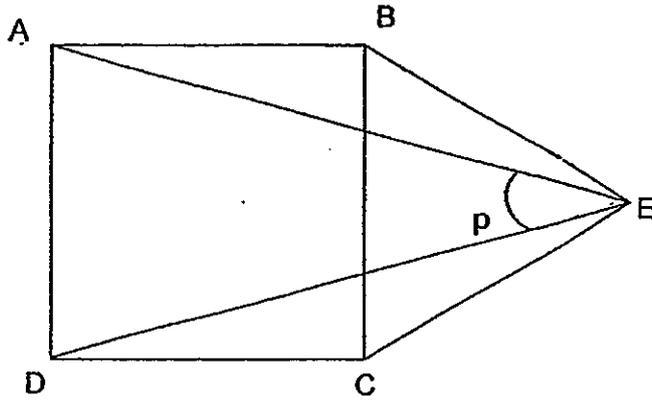
End-of-Paper

Anglo-Chinese School (Primary)

END-OF-YEAR EXAMINATION 2013
MATHEMATICS
PAPER 2
PRIMARY FIVE

Name: _____ (   )   Class: Primary 5 ___

Date: 25 October 2013   Duration of paper 2: **1h 40min**

_____
Parent's/Guardian's signature

INSTRUCTIONS TO CANDIDATES

1. This question paper consists of 16 printed pages.
2. Do not turn this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. You are allowed to use a calculator.

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

Section A: Short Answers (5 Questions x 2 Marks)

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

1. A rectangular tank measuring 40 cm long by 15 cm by 20 cm, was filled with water to a depth of 10 cm. When more water was added, the water level rose to 16 cm. What was the volume of water added?
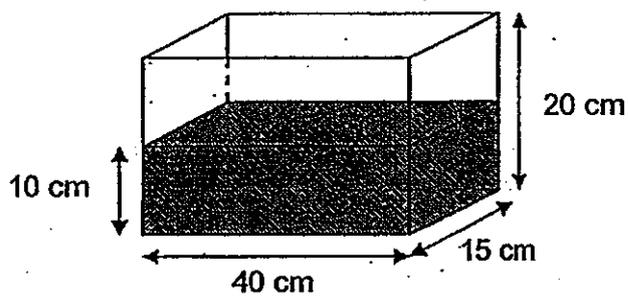
Answer: _____ cm³

2. Victor has $27 in his piggy bank. There was a mixture of 20 cent and 50 cent coins. There were 5 more 50 cent coins than 20 cent coins in the piggy bank. How many 20 cent coins are there in his piggy bank?

Answer: _____

3. · ABCD is a rectangle. It is divided into 4 different triangles P, Q, R and S which meet at a point as shown. Find the area of triangle S.

A _____ D
51 cm²
Q
P
24 cm²
R   45 cm²
B _____ C

Answer: _____ cm²

3
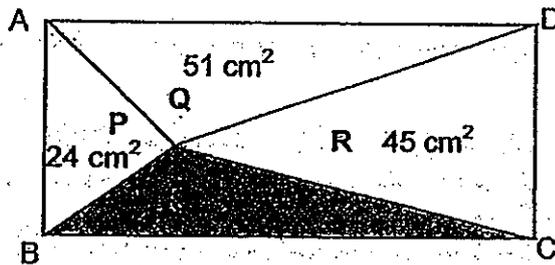
4. Roy bought a toy gun at 20% discount. He paid $74.90 for the toy gun which was inclusive of 7% GST of the discounted price. What was the original price of the toy gun?

Answer: $_____

5. A bottle which has a capacity of 4 ℓ is currently $\frac{5}{8}$ filled. John poured an additional 650 mℓ of water into the bottle, how much more water is needed to fill up the bottle completely? Give your answer in litres.

Answer: _____ ℓ

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

6.   The usual price of a slice of cake is $0.90. If you buy 4 slices of cake, you

       can buy 1 more slice of cake at half the price.   What is the greatest

       number of slices of cake you can buy with $99?

                                           Answer: _____ [3]

7.   Ken had half as many pink balloons as orange balloons. After he had given

       away 90 orange balloons, he had $\frac{1}{3}$ as many orange balloons as pink

       balloons left. How many balloons had he left?

                                           Answer: _____ [3]

8. William had $10.40 less than Victor. If William gave $4.80 to Victor, Victor would have thrice as much money as William. How much money had Victor at first?

Answer: _____ [3]

9. The total length of 2 poles is 5.6 m. 30% of the length of the shorter pole and 50% of the length of the longer pole add up to 2.5 m. Find the length of the shorter pole.

Answer: _____ [3]

10. Charlie had a container of green jelly beans and red jelly beans. If he eats 12 green jelly beans, the ratio of the number of green jelly beans to the number of red jelly beans will become 5 : 4. If he eats 12 red jelly beans, the ratio of the number of green jelly beans to the number of red jelly beans will then be 7 : 5. What is the original number of green jelly beans?

Answer: _____ [3]

11. In a market, there were 410 kg of apples and oranges in a market. After 70% of the apples and 20 kg of the orange were sold, the remaining apples and oranges were of equal mass. What was the original mass of the oranges?

Answer: _____ [4]

12. In the diagram, HBDG is a trapezium and triangles BEF and BDE are isosceles triangles. AC, AG and GC are straight lines. BD = BE = EF.
∠ABH = 40° and ∠CBD = 32°.

(a) Find ∠p.
(b) Find ∠q.
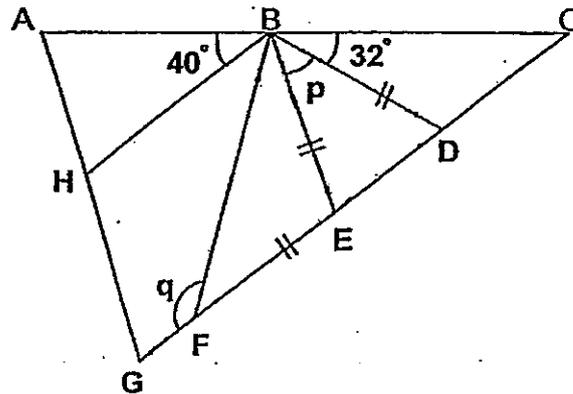
Answer: (a)_____[2]

(b)_____[2]

13. $\dfrac{3}{10}$. of the people at a beach were females and the rest were males.

$\dfrac{3}{4}$ of the females and $\dfrac{1}{5}$ of the males decided to go swimming.

(a) What percentage of the total number of people at the beach went swimming?

(b) The total number of people who went swimming was 146. How many people were there at the beach?

Ans: (a) _____ [2]

(b) _____ [2]

11

14. Shane, Raja and Vani took a Science Quiz. The average score of Shane and Raja was 45. The total score of Shane, Raja and Vani was 135 and Vani scored 10 more marks than Shane. What was Shane's score?

Answer: _____ [4]

15. Tank X and Y have the same square base area of 25 cm². The heights of Tank X and Tank Y are 70 cm and 80 cm respectively. Tank X contains water filled to the brim while Tank Y is empty. If water from Tank X is transferred into Tank Y until Tank Y is $\frac{5}{8}$ filled with water, how much water is left in Tank X?
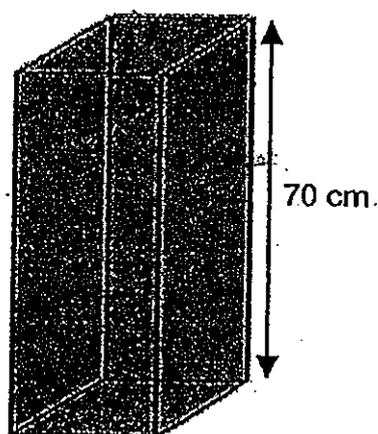
Tank X   Tank Y

Answer: _____[4]

13
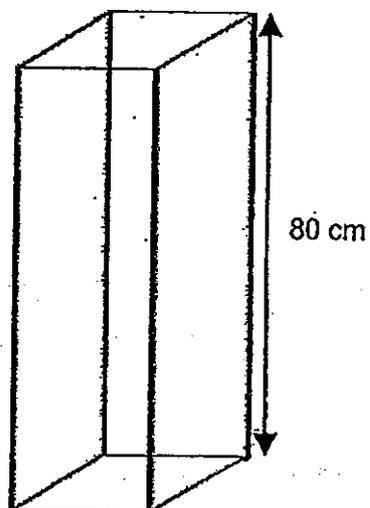
16. Tom had $144 more than Ali at first. After Tom spent 25% of his money and Ali spent $\frac{1}{3}$ of his money, Tom had $122 more than Ali. How much did Tom have at first?

Answer: _____ [5]

17. James had a total of 2112 guavas and mangoes for sale at first. After 600 mangoes and $\frac{1}{3}$ of the guavas were sold, the ratio of the number of mangoes to the number of guavas became 3 : 5.

(a) How many guavas did James have left?

(b) How many mangoes did James have at first?

Ans: (a) _____ [3]

(b) _____ [2]

18. The first three figures of a sequence are shown below.
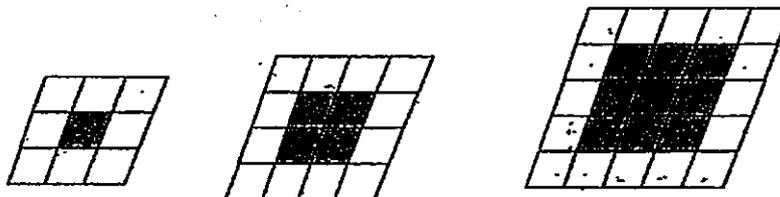
Figure 1   Figure 2   Figure 3

The table below records the number of shaded and unshaded rhombuses in each figure.

Figure	Number of shaded rhombuses	Number of unshaded rhombuses	Total number of rhombuses
1	1	8	9
2	4	12	16
3	9	16	25
4			36

Study the number patterns in the table and answer these questions

(a)   Fill in the blanks in the table above for Figure 4.

(b)   Find the number of unshaded rhombuses in Figure 30.

(c)   Which figure has 81 rhombuses altogether?

Ans: (a)_____[1]

Ans: (b)_____[2]

Ans:(c)_____[2]

End-of-Paper
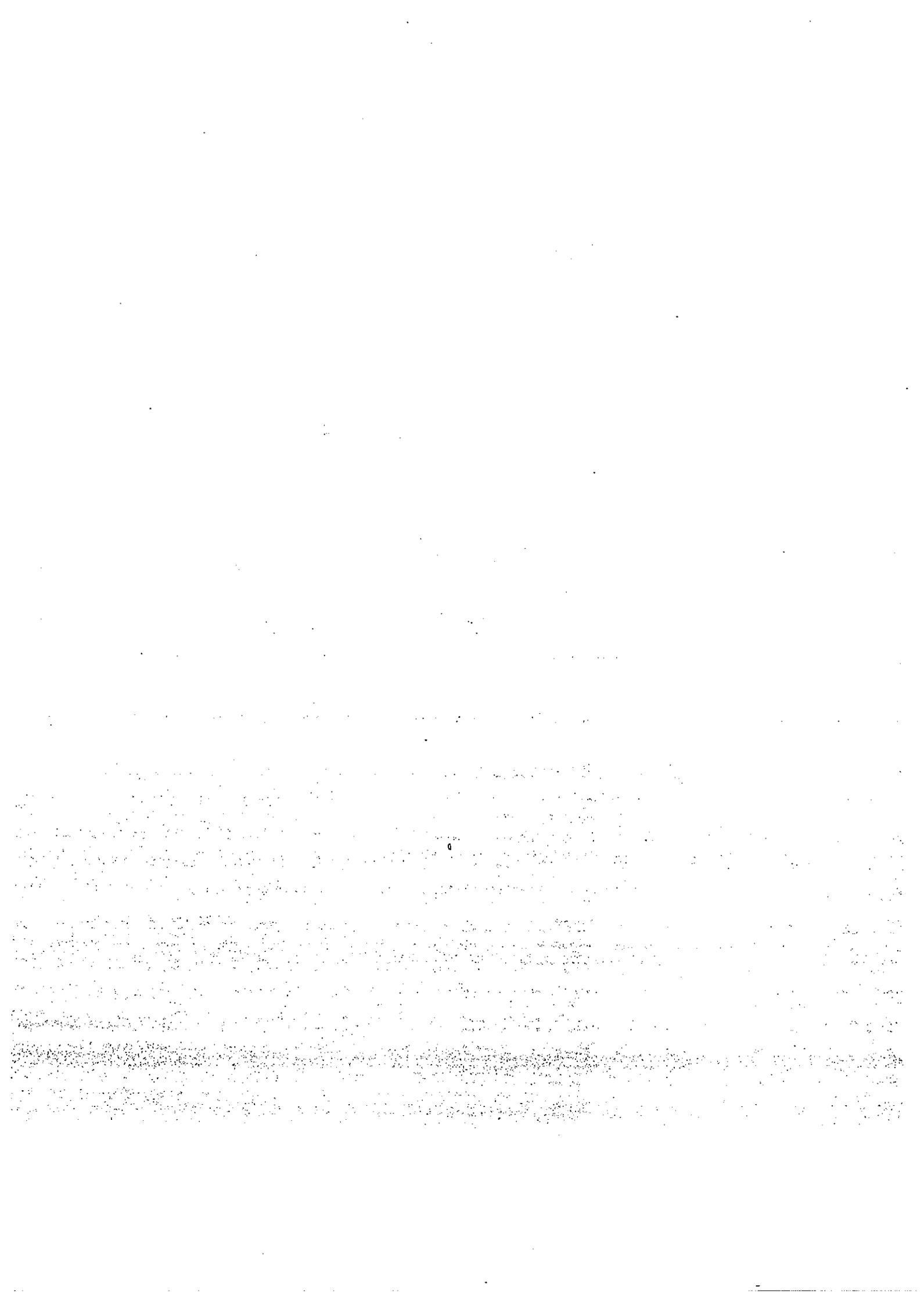
16

ANSWER SHEET

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

16)4500   17)136   18)3000ml   19)11/20   20)12

21)12m   22)$14   23)1440g   24)270°   25)35°

26)88°   27)55   28)175   29)1/25   30)30°

Paper 2

1)16 − 10 = 6
   40 x 15 x 6 = 3600cm3

2)35

3)45 + 24 = 69
   69 − 51 = 18cm2

4)107% →74.9
   1% →74.9÷107 = 0.7
   100% →74.9÷107 x 100 = 70
   80% →70
   100% →70÷80 x 100 = $87.50

5)8u→4L

  1u→0.5L

  5u→2.5L

  2.5L = 2500ml

  2500 + 650 = 3150

  4000 − 3150 = 850

  850ml = 0.85L

6)0.90 x 4 = 3.60

  3.60 + 0.45 = 4.05

  99 ÷ 4.05 = 24.4444 ≈ 24.0

  24 x 5 = 120

  120 + 2 = 122

  4.05 x 24 = 97.2

  97.2 + (0.90+0.90) = 99

  Ans: 122

7)90 ÷ 5 = 18

  18 x 4 = 72

8)4.8 + 10.4 + 4.8 = 20

  20 ÷ 2 = 10

  10 + 4.8 + 10.4 = $25.20

9)2.5 x 2 = 5

  5.6 − 5 = 0.6 (shorter pole)40%

  0.6 = 40%

  0.6 ÷ 40 = 0.015

  0.015 x 100 = 1.5m

10)252

11)410 − 20 = 390

  390 ÷ 130 = 3

  30 + 70 + 30 = 130

  3 x 30 = 90

  90 + 20 = 110kg

12)a) $\angle$HBD = 180° − 40° − 32° = 108°

    $\angle$BED = 180° − 108° = 72°

     $\angle$p = 180° − (72° x2) = 36°

  b) $\angle$BEG = 180° + 3 = 36°

     (180° − 108°) ÷ 2 = 36°

     $\angle$q = 180° − 36° = 144°

13)a)(Female,swim)→ ¾ x 3/10 = 9/40
(male,swim) →1/5 x 7/10 = 7/50
Total, swim→9/40 + 7/50 = 73/200
73/100 x 100% = 36.5%
b)36.5% →146 people
1% →4 people
100% →100 x 4 = 400

14)45 x 2 = 90
135 − 90 − 10 = 35

15)5 x 5 x 80 = 2000
2000÷8 = 250
250 x 5 = 1250
5 x 5 x 70 = 1750
1750 − 1250 = 500cm$_3$

16)At first
Tom→12u + 144
Ali→12u
After spending
Tom→9u + $108
Ali→8u
8u + 122 = 9u + 108
1u→14
Tom at first
→12 x $14 + $144 = $168 + 144 = 312

17)a)21u→2112 − 600 = 1512
1u→1512÷21 = 72
10u→72 x 10 = 720
b)6u→72 x 6 = 432
432 + 600 = 1032

18)a)16 , 20
b)30 + 1 = 31
31 x 4 = 124
c)9 x 9 = 81
9 − 2 = 7
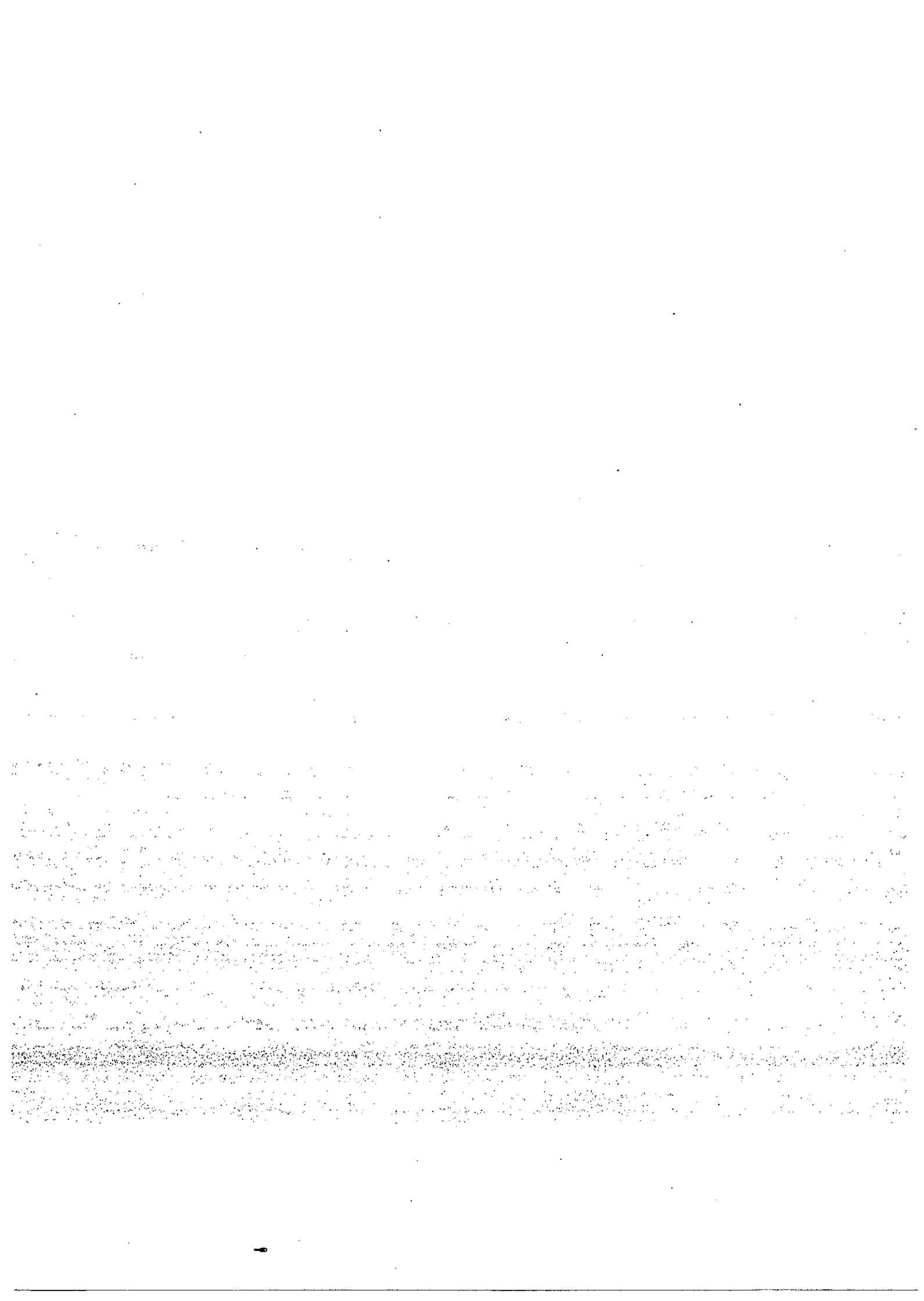
Name:_____ (   )   22 October 2013

Class: P 5_____

CATHOLIC HIGH SCHOOL

END-OF-YEAR EXAMINATION 2013

MATHEMATICS

PRIMARY 5

PAPER 1

(BOOKLET A)

15 questions

20 marks

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.

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

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

This booklet consists of printed pages 1 to 5.

Questions **1** to **10** carry 1 mark each. Questions **11** to **15** carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval on the Optical Answer Sheet. All diagrams are not drawn to scale. (20 marks)

1. Round off 6789 to the nearest hundred.

    (1) 6700

    (2) 6790

    (3) 6800

    (4) 7000

2. In 86.75, what does the digit 7 stand for?

    (1) 7 ones

    (2) 7 tens

    (3) 7 tenths

    (4) 7 hundredths

3. Express 15 g as a fraction of 750 g.

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

    (2) $\dfrac{1}{50}$

    (3) $\dfrac{1}{75}$

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

4. $\frac{2}{3} \div 12$ is the same as _____ .

(1) $\frac{3}{2} \times \frac{12}{1}$

(2) $\frac{3}{2} \times \frac{1}{12}$

(3) $\frac{2}{3} \times \frac{1}{12}$

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

5. The mass of 3 bags of coffee powder is 32 kg, 15 kg and 10 kg.
    Find the average mass of 1 bag of coffee powder.

(1) 19 kg

(2) 28.5 kg

(3) 57 kg

(4) 171 kg

6. Express 5050 cm in metres.

(1) 0.505 m

(2) 5.05 m

(3) 50.5 m

(4) 505 m

7. Alvin bought 5 kg of flour. He used 0.35 kg of flour to make one
    loaf of bread. How much flour had Alvin left after he made 6 such
    loaves of bread?

(1) 2.10 kg

(2) 2.90 kg

(3) 3.10 kg

(4) 4.65 kg

2

8. Identify the base of triangle ABC, given that CD is the height.
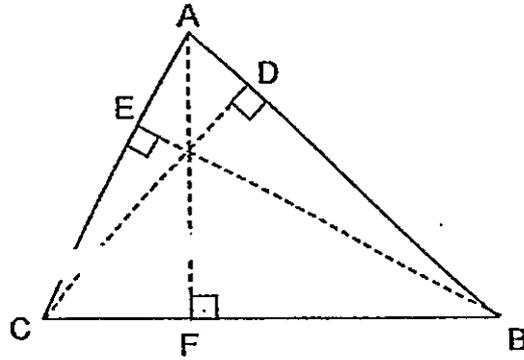
(1) AB

(2) AC

(3) CB

(4) AF

---

9. In the figure below, AB and CD are straight lines. Find ∠x.

(1) 64°

(2) 66°

(3) 72°

(4) 88°
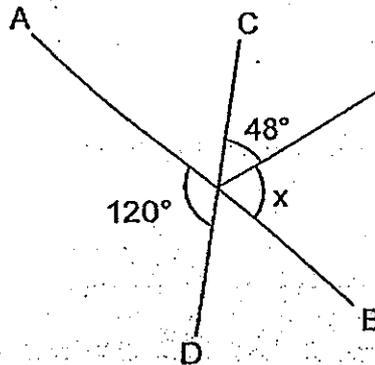
10. Express 3 tons, 5 tenths and 49 thousandths as a decimal.

   (1) 3.549
   (2) 30.99
   (3) 35.049
   (4) 30.549

---

11. Julian answered 36 out of 40 questions correctly. Wh it percentage of the questions was answered incorrectly?

   (1) 10%
   (2) 90%
   (3) 36%
   (4) 4%

---

12. The ratio of the amount of money Alan has to the amount of money Brenda has is 3 : 5. The ratio of the amount of money Brenda has to the amount of money Chris has is 2 : 1. Find the ratio c the amount of money Alan has to the amount of money Chris has.

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

13. Audrey bought 20 m of cloth. She used $\frac{1}{5}$ of it to make some streamers and $4\frac{1}{2}$ m to make a tablecloth. How much cloth was she left with?

(1) $11\frac{1}{2}$ m

(2) $12\frac{1}{2}$ m

(3) $15\frac{3}{10}$ m

(4) $15\frac{1}{2}$ m

14. The area of a plot of garden is 2730 m². 10% of it is taken up to grow roses and another 20% of it is used to grow sunflowers. What is the area of the remaining plot of land?

(1) 819 m²

(2) 1911 m²

(3) 3900 m²

(4) 9100 m²

15. $\frac{1}{3}$ of the number of Sam's stickers is the same as $\frac{3}{5}$ of the number of Joshua's stickers. Express the number of stickers Joshua has as a fraction of the total number of stickers both boys have.

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

(2) $\frac{5}{9}$

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

(4) $\frac{5}{14}$

END OF BOOKLET A

Name: _____ (   )   22 October 2013

Class: P 5_____

CATHOLIC HIGH SCHOOL

END-OF-YEAR EXAMINATION 2013

MATHEMATICS

PRIMARY 5

PAPER 1

(BOOKLET B)

15 questions

20 marks

Total Time for Booklets A and B: 50 min

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.

This booklet consists of printed pages 6 to 12.

Questions **16** to **25** carry **1** mark each. Write your answers in the space provided. For questions which require units, give your answers in the units stated. All figures are not drawn to scale.   (10 marks)

16.   Write the following in figures.

        Six hundred thousand, nine hundred and nineteen.

        Ans: _____

17.   When a whole number is rounded off to the nearest thousand, it becomes 60 000. What is the largest possible value of this whole number?

        Ans: _____

18.   Find the value of $30 - 2 \times 4 + 24 \div 2$.

        Ans: _____

(Go on to the next page)

6

19. Find the value of 18.5 ÷ 50. Give your answer as a decimal.

Ans: _____

20. Express 0.06 as a percentage.

Ans: _____ %

21. In the figure below, ABCD is a rectangle of area 48 cm².
Find the area of the shaded triangle CED.

A   E   B

D   C

Ans: _____ cm²

(Go on to the next page)

7
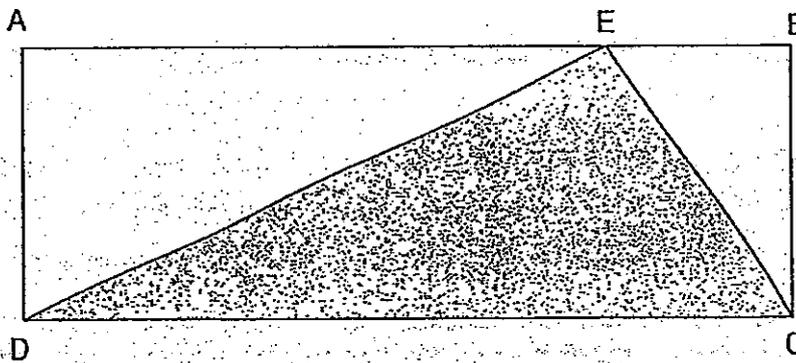
22. In the figure, ABCD is a rectangle. Find ∠EAC.

A

B

E

102°

40°

D

C

Ans: _____ °
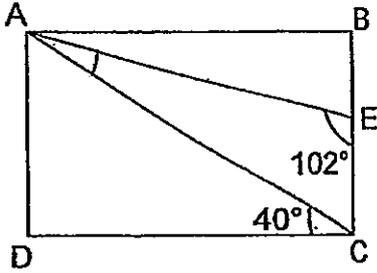
23. Find the value of $11\frac{1}{6} - \frac{7}{12}$.

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

Ans: _____

24. How many sixths are there in $5\frac{5}{6}$?

Ans: _____

(Go on to the next page)

25. The following solid figure is made up of identical cubes of edge 1 cm. Find the volume of the solid figure.
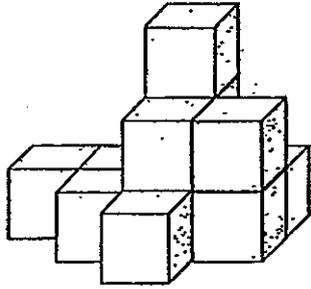
Ans: _____ cm³

Total marks for questions 16 to 25

(Go on to the next page)

9

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. All figures are not drawn to scale.   (10 marks)

26. Find the value of 3 ÷ 7. Give your answer in 2 decimal places.

Ans: _____

27. A machine can print 70 cards in 6 minutes. How many cards can it print in

2 hours?

Ans: _____

(Go on to the next page)

10

28. In the figure below, WXYZ is a rhombus. Given that ∠ZWY is 56°, find ∠YXW.

Ans: _____°

---
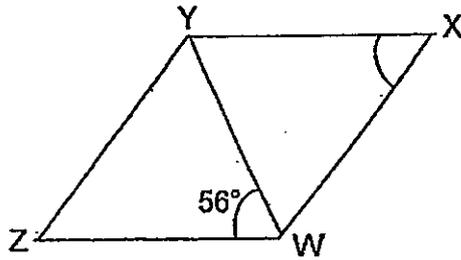
29. Mrs Rajoo bought some mangoes and oranges at a fruit stall. 2 mangoes cost as much as 5 oranges. She paid $11.20 for 4 mangoes and 4 oranges. What is the cost of 1 orange?

Ans: $ _____

(Go on to the next page)

11

30. A piece of rope is cut into 3 pieces, A, B and C. The length of rope A is thrice the length of rope B. Rope C is half of rope B. Half of rope A is 12 cm. How much longer is rope A than rope C?

Ans: _____ cm

End of Booklet B

12

Name : _____ (   )   22 October 2013

Class : P 5 _____

CATHOLIC HIGH SCHOOL

END-OF-YEAR EXAMINATION 2013

MATHEMATICS

PRIMARY 5

PAPER 2

Total Time: 1 h 40 min

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

Parent's Signature: _____

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 printed pages 1 to 13.

Questions 1 to 5 carry 2 marks each. Show your working clearly and write
your answers in the spaces provided. All figures are not drawn to scale.
For questions which require units, give your answers in the units stated.

(10 marks)

1.   A computer costs $1600 after a 20% discount is given. What is the price of
      the computer before discount?

Ans: $_____

2.   In the figure below, YTVZ is a parallelogram. ∠ZVW is $\frac{1}{3}$ of ∠UVW.

      Find ∠ZVW

Ans: _____°

1
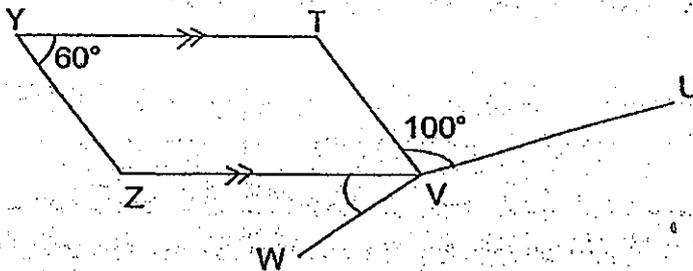
3. The figure below shows a cuboid with a shaded square face of edge 4 cm. Find the volume of the cuboid.

15 cm

4 cm
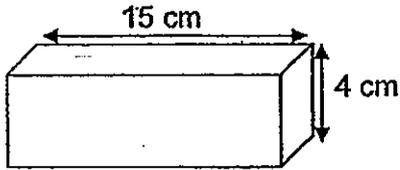
Ans: _____ cm³

4. Andy and Bala have 450 beads altogether. Bala and Christian have a total of 360 beads . Andy has twice as many beads as Christian. How many beads does Andy have?

Ans: _____

5. For every 50 cents that Daniel saved, his mother will give him 20 cents. When Daniel had $24.50 in his savings, how much of it was given by his mother?

Ans: $_____

(Go on to the next page)

3

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

6. Mary and John had the same number of stamps at first. After Mary gave away 42 stamps and John lost 26 stamps, John had twice as many stamps left as Mary. How many stamps did each of them have at first?

Ans: _____[3]

7. In a school hall, the ratio of the number of boys to the number of girls was 3 : 5 at first. After 14 boys entered the school hall and 14 girls left the school hall, the number of boys became twice the number of girls. How many boys were there in the school hall at first?

Ans: _____[3]

4

8. The usual price of a pair of shoes was $200. Jackson bought the shoes at a discount of 15%. 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]

9. Gary spent $\frac{1}{3}$ of his monthly salary on food. After he gave $\frac{1}{4}$ of his remaining money to his mum, he decided to save the remaining $504. How much was Gary's monthly salary?

Ans: _____ [3]

5

10. Some candies were distributed to a group of children. The number of girls was equal to the number of boys. Each girl was given 5 candies while each boy was given 8 candies. The boys received a total of 162 candies more than the girls. How many children were there in the group?

Ans: _____ [3]

11. Jason had 20 sweets more than Mason at first. After Jason gave 46 sweets to Mason, the ratio of the number of sweets that Mason had to the number of sweets that Jason had became 5 : 3. Find the number of sweets Mason had in the end.

Ans: _____ [3]

(Go on to the next page)

6

12. Kayson bought 4 doughnuts and 5 pies from a cafe for $24.70. A pie cost $1.70 more than a doughnut. What is the maximum number of doughnuts Kayson can buy with $27?

Ans: _____ [4]

13. Shaded and unshaded triangles are used to form a sequence of patterns. The first four patterns are shown below.
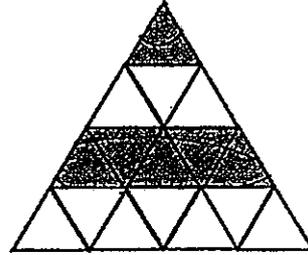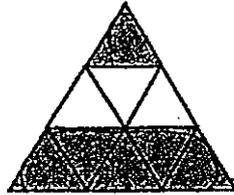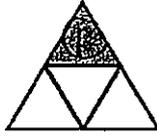
| Pattern 1 | Pattern 2 | Pattern 3 | Pattern 4 |

Complete the following table.

Pattern Number	Number of shaded triangles	Number of unshaded triangles
1	1	0
2	1	3
3	6	3
4	6	10
5	(a)	(b)

(c) What is the total number of triangles in Pattern 25?

Ans: (c) _____ [2]
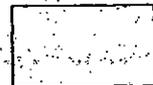
14. A box with 30 identical notebooks in it weighs 3.6 kg. The same box with 20 identical files in it weighs 4.7 kg. The mass of each file is twice the mass of each notebook. What is the mass of the empty box?

Ans:_____[4]

9

15. Keagan spent 25% of his money on petrol and $70 on food. He then spent 30% of his remaining money on clothes and $105 on groceries.
Given that he was left with $35, how much money did he have at first?

Ans: _____ [5]

10

16. Lukas and Jason share some stickers. The ratio of Lukas's stickers to Jason's stickers was 3 : 5. After Lukas gave away 20 stickers, Lukas has half as many stickers as Jason. How many more stickers must Lukas give away in order to have 20% of Jason's stickers?

Ans: _____ [5]

11
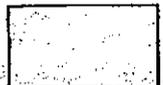
17. In a school hall, chairs were arranged in rows such that there were exactly 15 chairs in each row For a performance, 7 more chairs were added into the school hall and all the chairs were rearranged. There are now exactly 11 chairs in each row and 9 more rows than before. How many chairs are there in the school hall for the performance?

Ans: _____ [5]

12

18. Some children and adults were at a carnival. Every boy was given 5 sweets while each girl was given 2 sweets. Every adult was also given 1 sweet. $\frac{1}{4}$ of the people at the carnival were adults and the ratio of the number of boys to the number of girls was 3 : 2. How many children were there altogether given that a total of 310 sweets were distributed?

Ans: _____ [5]

- End of Paper 2 -

13
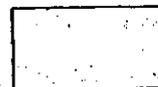
ANSWER SHEET

EXAM PAPER 2013
SCHOOL : CATHOLIC HIGH
SUBJECT : PRIMARY 5 MATHEMATICS

TERM : SA2

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

16)600919   17)60499   18)34   19)0.37   20)6%

21)24cm^2 22)28°   23)107/12   24)35   25)12cm^3

26)0.43   27)1400   28)68°   29)$0.80   30)20cm

Paper 2
1)80% = $1600
  20% = $400
  100% = $2000

2)360° − 100° − 60° = 200°
  200° ÷ 4 = 50°
  ∠ZVW is 50°

3)15cm x 4cm x 4cm = 240cm^3

4)A+B+B+C= 450+ 360 = 810
  A+B-B+C = 450 − 360 = 90
  90 x 2 = 180 beads

5) 50c + 20c = 70c
   $24.50 ÷ 70c = 35
   35 x 20c = $7

6) 42 − 26 = 16
   16 + 42 = 58

7) 14 ÷ 7 = 2
   2 x 9 = 18

8) 85/100 x 200/1 = $170
   107/100 x 170/1 = $181.90

9) $504 ÷ 3 = $168
   $168 x 6 = $1008

10) 8 − 5 = 3
    162 ÷ 3 = 54
    54 x 2 = 108

11) 26 + 26 + 20 = 72
    72 ÷ 2 = 36
    36 x 5 = 180

12) $1.70 x 5 = $8.50
    $24.70 − $8.30 = $16.20
    $16.20 ÷ 9 = $1.80
    $27 ÷ $1.80 = 15

13) a) 15
    b) 10
    c) 625

14) Box + 20 files = 4.7kg
    Box + 40 note = 4.7kg
    Box + 30 note = 3.6kg
    10 note = 1.1kg
    1 note = 110g
    40 note = 4.4kg
    4.7kg − 4.4kg = 300g

15) $105 + $35 = $140
$140 ÷ 7 = $20
$20 x 10 = $200
$200 + $70 = $270
$270 ÷ 3 = $90
$90 x 4 = $360

16) 10 ÷ 5 = 2
20 x 3 = 60

17) 11 x 9 = 99
99 − 7 = 92
92 ÷ 4 = 23
23 x 15 = 345
345 + 7 = 352

18) 9 x 5 = 45
6 x 2 = 12
45 + 12 + 5 = 62
310 ÷ 62 = 5
5 x 15 = 75
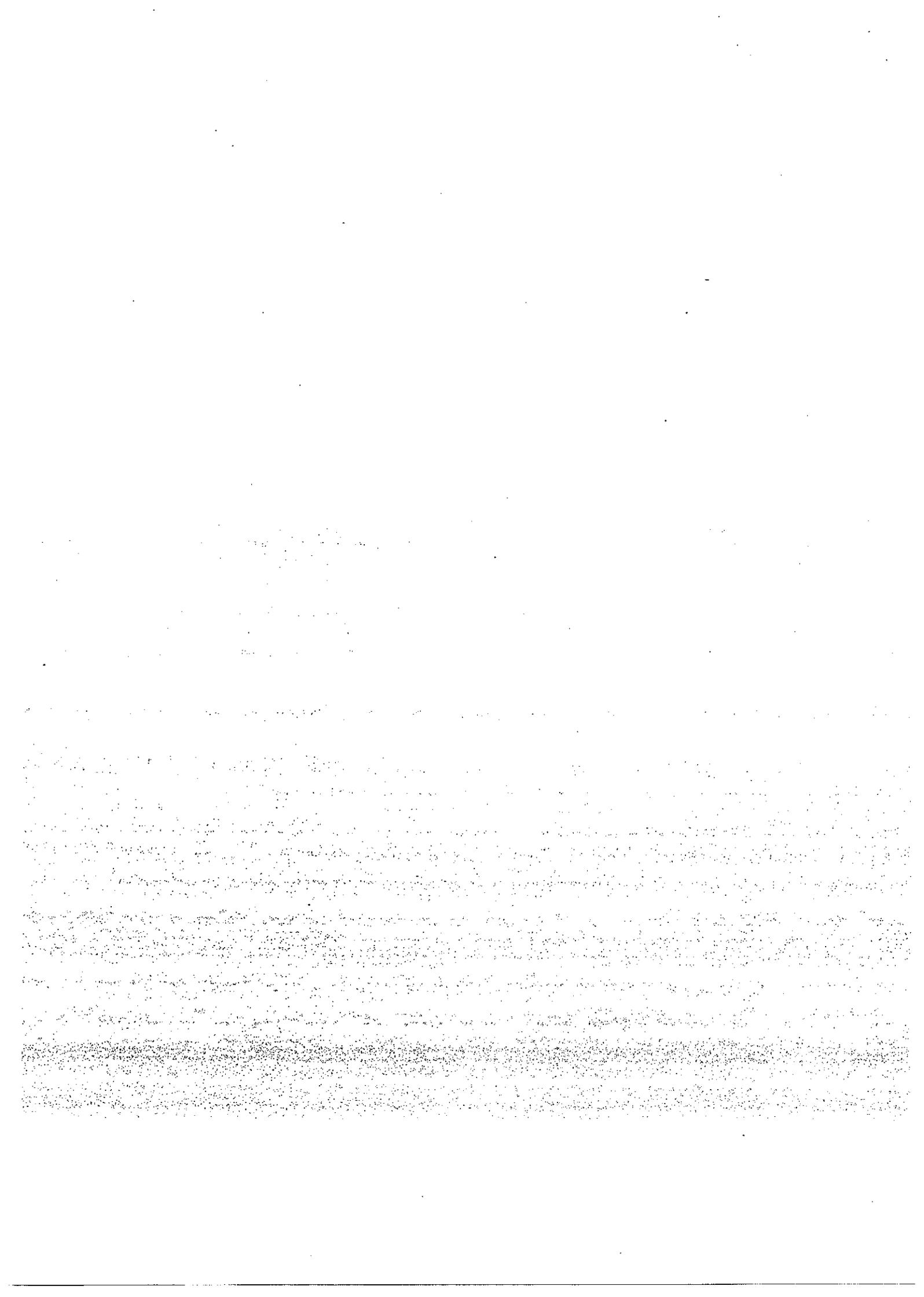
Name : _____ ( )

Class : Primary 5 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

Primary 5

2013 Semestral Assessment Two

Mathematics

Paper 1

Booklet A

28 October 2013

Total Time for Booklets A and B : 50 minutes

INSTRUCTIONS TO CANIDATES

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 <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, or 4) on the Optical Answer Sheet.

(20 marks)

1. Round off 297 538 to the nearest ten thousand.

    1) 290 000

    2) 298 000

    3) 300 000

    4) 390 000

2. Find the value of 760 000 ÷ 400.

    1) 190

    2) 1900

    3) 19 000

    4) 190 000

3. In a group of pupils, $\frac{2}{5}$ of them are girls. What percentage of the pupils are boys?

    1) 20%

    2) 30%

    3) 40%

    4) 60%

4. Given that the base of Triangle XYZ is XZ, what is its height?
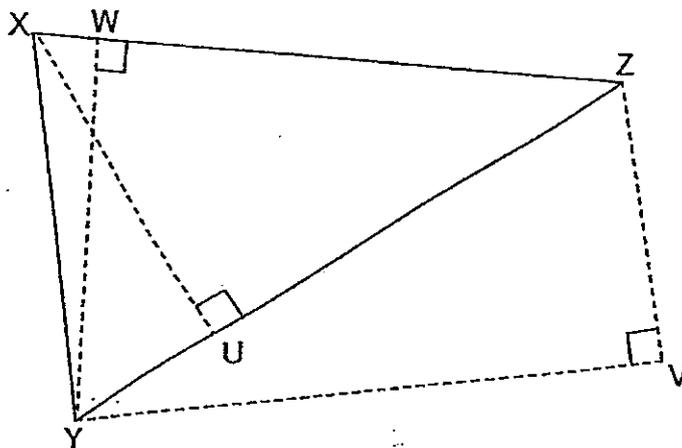
1) XY

2) WY

3) UX

4) VZ

5. Mrs Bong spent $\frac{1}{5}$ of her salary on transport and $\frac{1}{4}$ of the remainder on food. What fraction of her salary was left?

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

2) $\frac{9}{20}$

3) $\frac{11}{20}$

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

6. There are 18 red buttons, 24 blue buttons and 36 green buttons in a box. What is the ratio of the number of blue buttons to the total number of red and green buttons in the box?

1) 2 : 3

2) 4 : 3

3) 4 : 9

4) 4 : 13

7. The figure below is not drawn to scale. AB and CD are straight lines. Find $\angle t$.
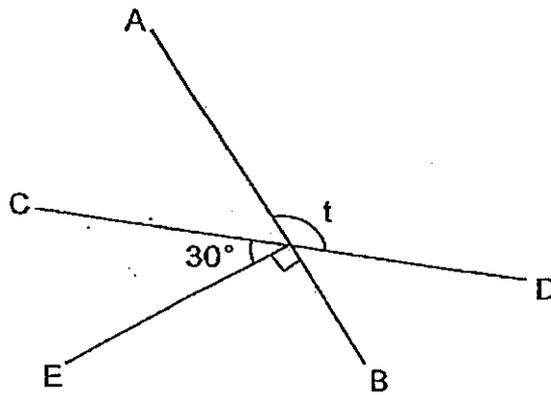
1) 30°

2) 60°

3) 120°

4) 130°

8. There was 4ℓ of milk in a bottle at first. Mrs. Kang used $\dfrac{3}{10}$ of it to bake some cupcakes. How much milk was left?

1) 0.12ℓ

2) 0.28ℓ

3) 1.2ℓ

4) 2.8ℓ

9. $\frac{2}{3}$ of a cake was distributed equally among 4 girls. What fraction of the whole cake did each girl receive?

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

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

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

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

10. The figure below is not drawn to scale. ABC is a right-angled triangle and BD = DC. Triangle ABD has an area of 30 cm². What is the area of Triangle ABC?
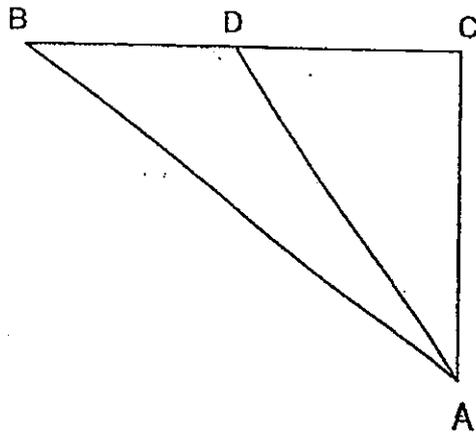
   1) 10 cm²

   2) 15 cm²

   3) 30 cm²

   4) 60 cm²

5

11. The figure below shows a container filled with some water. How much more water has to be poured into the container to fill it up completely without overflowing?
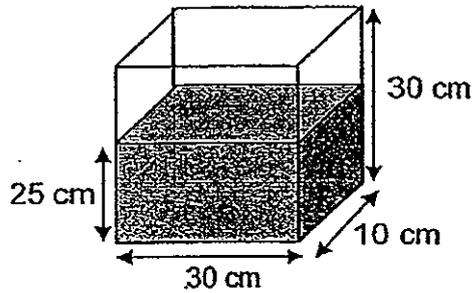
1) 1500 cm³

2) 4500 cm³

3) 7500 cm³

4) 9000 cm³

12. Aishah had a piece of ribbon. She cut the entire piece of ribbon into 80 smaller pieces, each $\frac{1}{4}$ m long. How many pieces would she get if she were to cut the original piece of ribbon into smaller pieces measuring 5 cm each?

1) 4000

2) 400

3) 40

4) 4

13. The average mass of 3 boxes, A, B and C, is 10 kg. Box A and Box B have the same mass. The mass of Box C is half the mass of Box A. What is the mass of Box A?

1) 6 kg

2) 10 kg.

3) 12 kg

4) 30 kg

14. Mindy is trying to form a cube using the unit cubes as shown below. How many more unit cubes does she need to form the smallest possible cube?
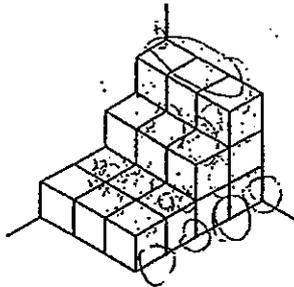
1) 21

2) 28

3) 43

4) 64

15.   The table below shows the rental charges for hiring a canoe.

Rental Charges	
First hour	$18
Every additional $\frac{1}{2}$ h or part thereof	$6.50

Ray hired a canoe from 10.15 a.m. to 1.00 p.m. How much did he pay?

1) $24.50

2) $31.00

3) $37.50

4) $44.00

** END OF BOOKLET A**

Name : _____ (   )

Class : Primary 5 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

Primary 5

2013 Semestral Assessment Two

Mathematics

Paper 1

Booklet B

28 October 2013

Booklet A	20
Booklet B	20
Total (Paper 1)	40

Total Time for Booklets A and B : 50 minutes

<u>INSTRUCTIONS TO CANIDATES</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>6</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)

Do not write in this space

16.   Write eight million, thirty-four thousand and five in numerals.

Ans : _____

17.   What is the value of $40 - (24 \div 4 \times 3) + 2 \times 22$?

Ans : _____

18.   Express 3 km 6 m in km. Leave your answer as a decimal.

Ans : _____ km

19. A bottle contains 300 mℓ of sparkling juice. Ken needs 1.9ℓ of sparkling juice. What is the smallest number of bottles of sparkling juice he needs to buy?

Ans : _____

20. What is the missing number in the box?

40 : 16 = ⬚ : 12

Ans : _____

21. Martin wants to buy a television set. The television set costs $3500 excluding 7% GST. How much GST does Martin have to pay?

Ans : $ _____

22. Samy bought 50 pens at $0.45 each. How much did he pay for the pens?

Ans : $ _____

3

23. Six teams took part in a netball game. Each team played one game against each of the rest of the teams. How many games were played altogether?

Ans : _____

24. The figure below is not drawn to scale. BD is a straight line. Find $\angle x$.
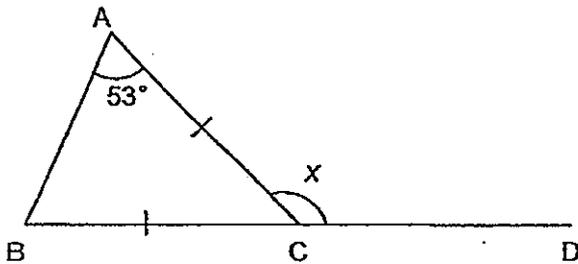
Ans : _____

25. The figure below is not drawn to scale. Find the area of the shaded triangle.
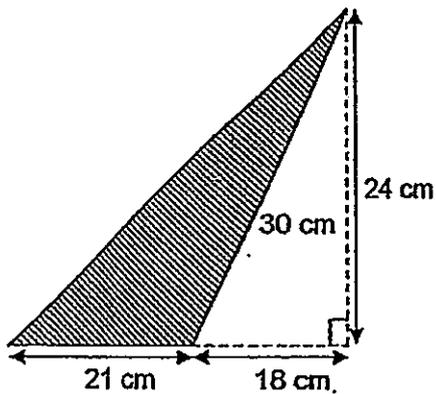
Ans : _____ cm²

4

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. Abby's mass is $38\frac{1}{2}$ kg. She is $2\frac{3}{4}$ kg heavier than Carol. What is the total mass of Abby and Carol?

Ans : _____ kg

27. Rena and Lily have some stickers in the ratio 5 : 1. How many stickers must Rena give Lily so that each of them has 72 stickers?

Ans : _____

28. The figure below is not drawn to scale. $\angle z$ is twice the size of $\angle y$. Find $\angle y$.

135° y

75° z
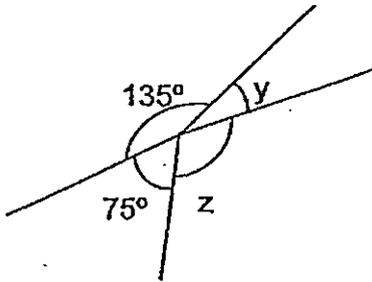
Ans : _____ °

29. A rectangular tank, 50 cm long and 40 cm wide, is filled with water to a depth of 8 cm. The water in the tank is just enough to fill 5 identical pails completely. How much water can 1 pail hold?

Ans : _____ mℓ

30. The average mass of 3 men is 73.9 kg. The mass of the first two men is 84.5 kg and 58.2 kg. What is the mass of the third man?

Ans : _____ kg
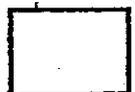
END OF PAPER 1

Name : _____ (   )

Class : Primary 5 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

Primary 5

2013 Semestral Assessment Two

Mathematics

· Paper 2

28 October 2013

Paper 1	40
Paper 2	60
Total	100

_____
Parent's / Guardian's Signature

Time : 1 hour 40 minutes

INSTRUCTIONS TO CANIDATES

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 14 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. Eileen has just enough money to buy either 6 peaches or 12 apples. If she buys 8 apples, how many peaches can she buy with the remaining amount of money?

    Ans : _____

2. Tom took 6 h 45 minutes to complete 5 sets of revision papers. What is the average time he took to complete 1 set of revision paper?

    Ans : _____ h _____ min

3. May's age is $\frac{1}{7}$ of her mother's age now. Her mother will be 50 years old in 8 years' time. How old will May be in 10 years' time?

    Ans : _____ yrs old

2

4. For every 5 men in a park, there were 7 women. For every 7 children in the park, there were 3 women. Find the ratio of the number of children to the number of women to the number of men in the park.

Ans : _____

5. Container A is filled with some water. The water in Container A is just enough to fill Container B, a cubical tank, to the brim. What is the length of Container B?
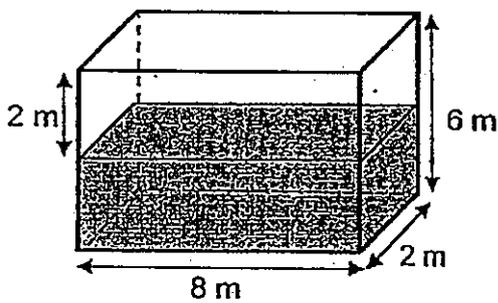
Container A
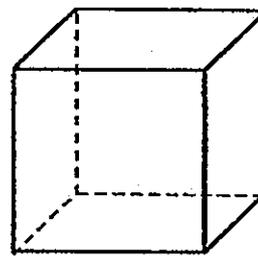
Container B

Ans : _____ m
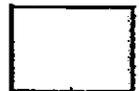
3

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

Do not write in this space

6.   The figure below is not drawn to scale. ABCD is a trapezium and DBE is a straight line. Find ∠BCD.
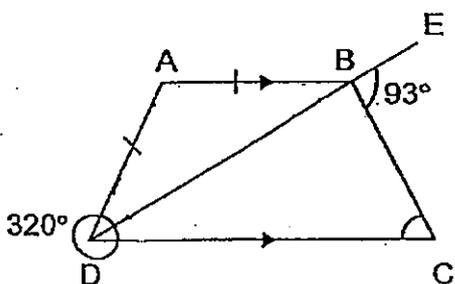
Ans : _____ [3m]

7. Dolly scored an average of 76.25 marks for English and Chinese. She scored an average of 88.75 marks for English and Mathematics. How many more marks did she score in Mathematics than in Chinese?

Ans : _____ [3m]

8. Mrs Neo bought 5 kg of mangoes and 9 kg of cherries at $162.50. 200 g of mangoes cost $3.80. How much would half a kilogram of cherries cost?

Ans : _____ [3m]

9. On Monday, Susan read $\frac{1}{6}$ of a book. On Tuesday, she read 29 pages of the book. On Wednesday, she read $\frac{1}{3}$ of the remaining book, leaving 24 pages of the book unread. How many pages of the book did Susan read on Monday?

Ans : _____ [3m]

10. Winnie is paid $2.40 for each hand puppet made. However, for each hand puppet made unsatisfactorily, her employer will deduct $3.50 from her salary. Given that she was paid $205.90 for making 96 hand puppets satisfactorily, how many unsatisfactory hand puppets did she make?

Ans : _____ [3m]

6

11. Yani, Alison and Uma shared a packet of marbles. The ratio of the number of marbles Yani had to the number of marbles Uma had was 3 : 4. The ratio of the number of marbles Uma had to the number of marbles Alison had was 2 : 3.

(a) Given that Alison had 126 marbles, how many marbles did Yani have?

(b) Yani lost $\frac{1}{9}$ of her marbles. What is the new ratio of the number of marbles Yani had to the number of marbles Alison had?

Ans : a) _____ [2m]

b) _____ [2m]

12. There were a total of 320 pupils in the hall. 40% of the pupils were boys and the rest were girls. Some girls left the hall. As a result, the number of remaining boys was $\frac{4}{5}$ of the total number of pupils left behind in the hall.

How many girls left the hall?

Ans : _____ [4m]

8
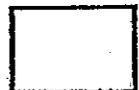
13. Some cubes of edge 2 cm are stacked up in 4 layers according to the pattern shown in the figure below.

(a) Find the total volume of all the cubes used to stack up the 4 layers.

(b) Based on the same pattern, how many more cubes must be used to form 8 layers?
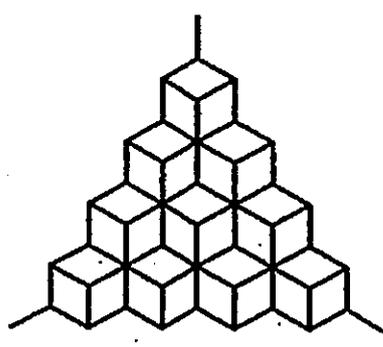
Layer	Number of cubes
1	1
2	3
3	6
4	10

Ans : a) _____ [2m]

b) _____ [2m]

9

14. Mr Ang wanted to top up his car to full tank with $88 worth of petrol. Petrol Station A was offering a 12% discount while Petrol Station B was offering another cash discount of $2 after a 10% discount.

(a) Which petrol station offered a better discount?

(b) Find the difference in the discounts offered by the 2 petrol stations.

Ans : a) Petrol Station _____ [3m]

b) _____ [1m]

15. The figure below, not drawn to scale, shows a rectangle MNOP. QRO is a straight line and PQ = PS. The ratio of MQ to PQ is 1 : 2. Find the area of the shaded part.

Ans : _____ [4m]

11
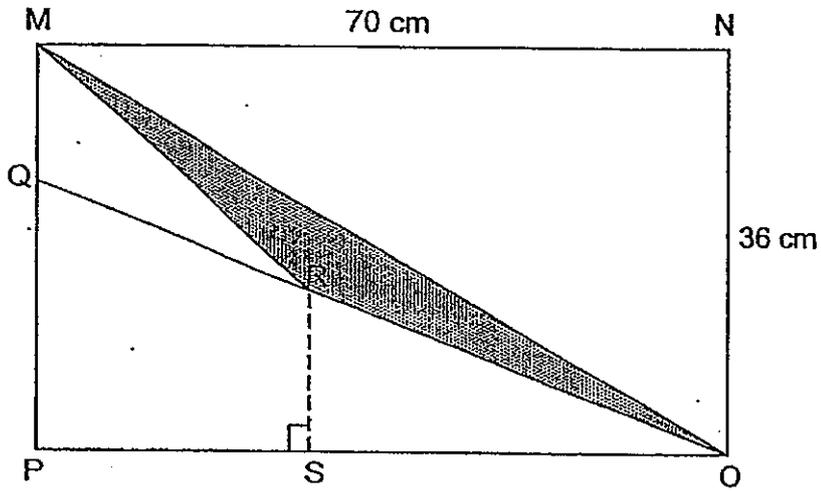
16. The figures below are not drawn to scale.

(a) ABC is an equilateral triangle and BCD is an isosceles triangle. Find ∠ m.

A

m
D

18°

B   C
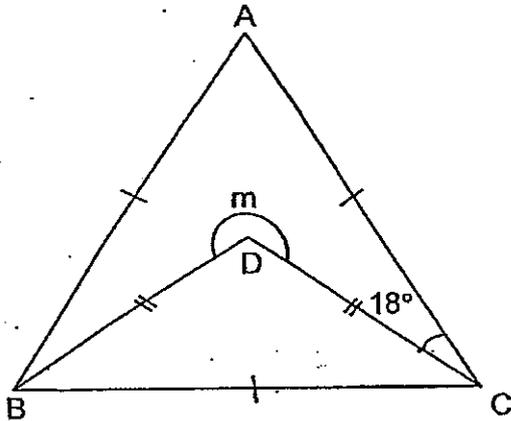
(b) ABCD is a parallelogram. AB = AE. Find ∠ CAE.

B   E   C
43°

68°

A   D
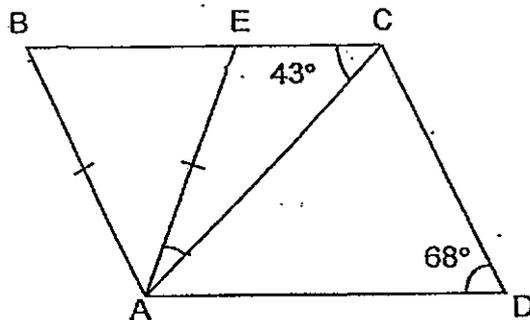
Ans : a) _____ [3m]

b) _____ [2m]
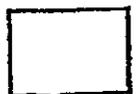
17. A tank, 50 cm long, 45 cm wide and 38 cm high, was $\frac{1}{4}$ filled with water at first. Water from a tap flows into the tank at 2.5ℓ per minute.

(a) How much water is in the tank after 5 minutes?

(b) 15ℓ of syrup was added to the water in the tank. What percentage of the resulting mixture was syrup? Round off your answer to 2 decimal places.

Ans : a) _____ [3m]

b) _____ [2m]

13

18. The number of beads in Box A is $\frac{1}{2}$ the number of beads in Box B. All the beads in Box A are green beads. Box B contains only green and yellow beads. In Box B, the number of green beads is $\frac{3}{4}$ the number of yellow beads. There are 10 more green beads in Box A than in Box B.
What is the total number of beads in Box A and Box B?

Ans : _____ [5m]
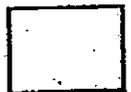
** END OF PAPER **

ANSWER SHEET

EXAM PAPER 2013
SCHOOL : CHIJ
SUBJECT : PRIMARY 5 MATHEMATICS

TERM : SA2

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

16)8034005   17)66   18)3.006   19)7   20)30

21)$245   22)$22.50   23)15   24)106°   25)252cm₂

26)74¼kg   27)48   28)50°   29)3200ml   30)79kg

Paper 2

1)12 apples→6 peaches
   1p→2
   12 − 8 = 4
   4÷2 = 2

2)6h 45min→405 min
   405 ÷ 5 = 81 min
   81 min→1 h 21 min

3)50 − 8 = 42
   42÷7 = 6
   6 + 10 = 16

4) C : W : M
  7 : 3 :
     7 : 5
  45 : 21 : 15

5) 6m − 2m = 4m
  4m x 8m x 2m = 64m3

  $\sqrt[3]{64}$ = 4m

6) 180° − 93° = 87°
  360° − 320° = 40°
  180° − 40° − 40° = 100°
  180° − 40° − 87° = 53°

7) 76.25 x 2 = 152.50
  88.75 x 2 = 177.50
  177.50 − 152.50 = 25

8) 5kg→5000g
  5000g÷200g = 25
  25 x $3.80 = $95
  $162.50 − $95 = $67.50
  9 x 2 = 18
  $67.50÷18 = $3.75

9) 24÷2 x 3 = 36
  36 + 29 = 65
  65÷5 = 13 pages

10) 96 x $2.40 = $230.40
  $230.40 − $205.90 = $24.50
  $24.50÷$3.50 = 7

11) a) Y : U : A
    3 : 4
      2 : 3
    3 : 4 : 6

    126÷6 = 21
    21 x 3 = 63

b)   Y : U : A
  134 →3 : 4 : 6
after→56:24:126
after→28:24:63

63 x 8/9 = 56
4 x 6 = 24
Y : A
28:63
4 : 9

12) $320 \div 10 = 32$

    $6 - 1 = 5$

    $32 \times 5 = 160$

13) a) $1 + 3 + 6 + 10 = 20$

    $2 \times 2 \times 2 = 8$

    $8 \times 20 = 160 cm^3$

  b) 100

14) a) A→ $\$88 \times 88\% = \$77.44$

    $\$88 \times 90\% = \$79.20$

    $\$79.20 - \$2 = \$77.20$

  b) $\$77.44 - \$77.20 = \$0.24$

15) $36cm \div 3 = 12cm$

    $12cm \times 70cm \times \frac{1}{2} = 420cm^2$

    $12cm \times 2 = 24cm$

    $24cm \times 12cm \times \frac{1}{2} = 144cm^2$

    $420cm^2 - 144cm^2 = 276cm^2$

16) a) $60° - 18° = 42°$

    $180° - 42° - 42° = 96°$

    $360° - 96° = 264°$

  b) $180° - 68° = 112°$

    $68° - 43° = 25°$

17) a) $50cm \times 45cm \times 38cm = 85500cm^3$

    $85500cm^2 \times \frac{1}{4} = 21375cm^3$

    $2.5L = 2500ml$

    $2500ml \times 5 = 12500cm^3$

    $12500cm^3 + 21375cm^3 = 33875cm^3$

  b) $15L = 15000cm^3$

    $15000cm^3 + 33875cm^3$

    $= 48875cm^3$

    $15000/48875 \times 100 \approx 30.69\%$

18) 210

METHODIST GIRLS' SCHOOL
Founded in 1887

PRIMARY 5 END-OF-YEAR EXAMINATION 2013
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: 8 October 2013

This booklet consists of 7 printed pages including this page.

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

(20 marks)

1. In 807 325, what does the digit 7 stand for?

   (1) 7 ones

   (2) 7 tens

   (3) 7 hundreds

   (4) 7 thousands

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

   (1) 1 m

   (2) 3.5 m

   (3) 10 m

   (4) 35 m

3. What is the difference between 50 tens and 5 tenths?

   (1) 45

   (2) 49.5

   (3) 450

   (4) 499.5

(Go on to the next page)

4. Which of the following has a value that is different from the rest?

    (1) $\dfrac{35}{9} \div$

    (2) $\dfrac{5}{3} \times \dfrac{1}{3}$

    (3) $\dfrac{4}{3} - \dfrac{2}{9}$

    (4) $\dfrac{1}{3} + \dfrac{2}{9}$

5. $\dfrac{1}{6} + \dfrac{\boxed{}}{18} = \dfrac{5}{9}$. The missing number in the box is _____.

    (1)   5

    (2)   2

    (3)   7

    (4)   10

6. Jane used stickers of four different shapes to make a pattern as shown below. The first 10 stickers are shown below. Which sticker was in the 57ᵗʰ position?

    (1)   ♡

    (2)   ☾

    (3)   ☀

    (4)   ☺

4
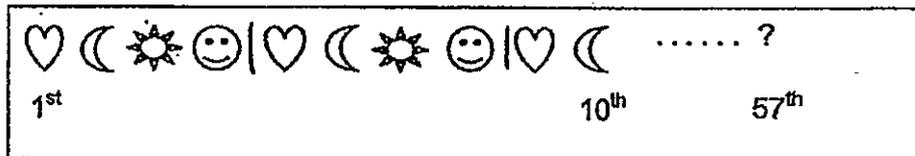
7. How many grams are there in 20.07 kg?

   (1)   2 007 g

   (2)   2 070 g

   (3)   20 070 g

   (4)   20 700 g

8. What is the area of triangle ABC as shown in the figure?
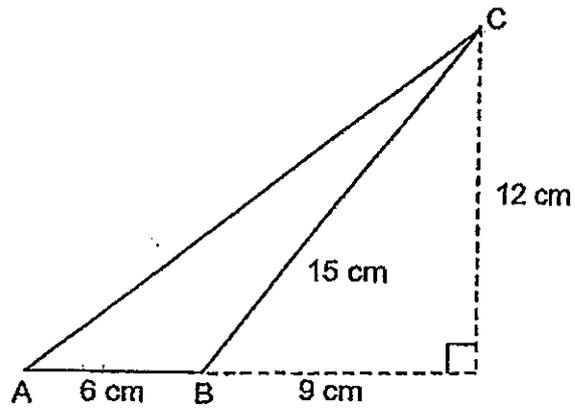
   (1)   36 cm^2

   (2)   45 cm^2

   (3)   54 cm^2

   (4)   90 cm^2

9. In the figure below, $\angle x$ is twice of $\angle y$. Find $\angle y$.
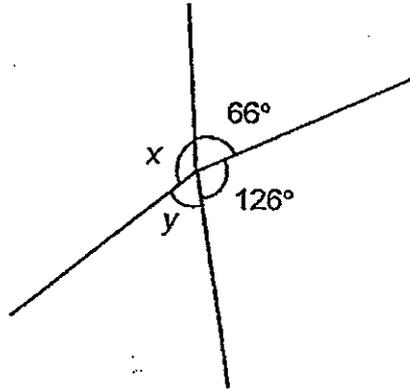
(1) 54°

(2) 56°

(3) 112°

(4) 168°

10. In the figure below, ABC and ADC are isosceles triangles. AB = AC, AD = DC and $\angle ABC = 70°$. Find $\angle ACD$.
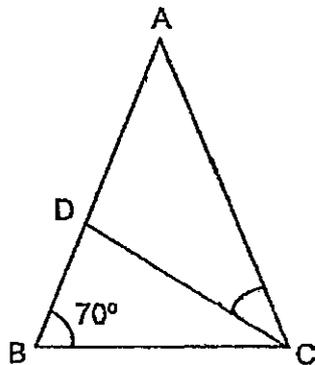
(1) 35°

(2) 40°

(3) 50°

(4) 70°

11. $\frac{4}{5} + \frac{1}{10} = \boxed{} \times 4 + \frac{1}{2}$

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

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

   (3) $\frac{1}{100}$

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

12. The pupils in a class are grouped equally into Team X and Team Y.
   In Team X, the ratio of the number of boys to the number of girls is 3 : 1.
   In Team Y, the ratio of the number of boys to the number of girls is 1 : 7.
   What is the ratio of the number of boys to the number of girls in the class?

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

13. The average mass of 5 girls is 27 kg. When Bianca joins the group of girls,
   the average mass of the group increases to 33 kg. What is Bianca's mass?

   (1)   30 kg

   (2)   36 kg

   (3)   49 kg

   (4)   63 kg

14. There are some beads in a box. 40% of them were blue and the rest were red. Devi used all of the blue beads and 25% of the red beads to make a bracelet. What percentage of the beads was used to make the bracelet?

    (1) 50%

    (2) 55%

    (3) 65%

    (4) 85%

15. The figure below is made up of 2 similar big cubes and 2 similar small cubes. The ratio of the length of the big cube to the length of the small cube is 2 : 1. Find the volume of the figure.

12 cm
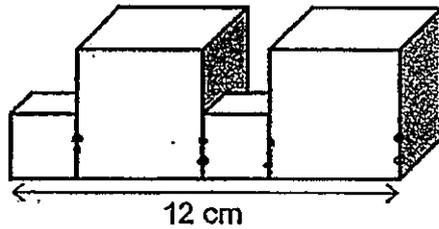
    (1) 18 cm³

    (2) 72 cm³

    (3) 144 cm³

    (4) 216 cm³

METHODIST GIRLS' SCHOOL
Founded in 1887

PRIMARY 5 END-OF-YEAR EXAMINATION 2013
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: 8 October 2013

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

This booklet consists of 8 printed pages including this page.

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 648 379 to the nearest hundred.

Ans: _____

17. Write the following number in numeral.

Two million, five hundred thousand and fourteen.

Ans: _____

18. Jaya spent $\frac{1}{2}$ of her money on books and $\frac{3}{8}$ of her money on food.

What fraction of her money was left?

Ans: _____

19. Study the pattern.

$$\frac{1}{3}, \frac{3}{9}, \frac{5}{15}, \boxed{}, \frac{9}{27}$$

What is the missing fraction in the box?

Ans: _____

20. 4 friends shared $\frac{5}{6}$ of a cake. What fraction of the cake did each friend get?

Ans: _____

21. Express the value of $2 + \frac{1}{4} + \frac{1}{50}$ as a decimal.

Ans: _____

22. The average of 2 numbers is 729. The difference between the two numbers is 376. What is the smaller number?

Ans: _____

23. Express 0.5% as a decimal.

Ans: _____

24. In the figure, AOB is a straight line. EO is perpendicular to OC and $\angle AOC = 162°$. Find $\angle AOE$.

Ans: _____ °
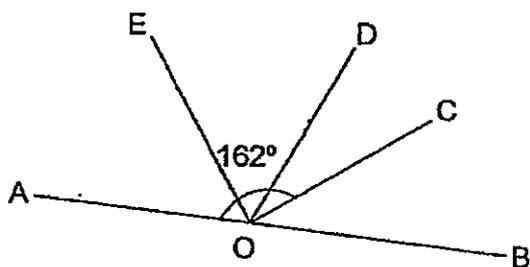
25. In the figure below, PQRU is a piece of rectangular paper folded along ST.
    Given that ∠USR = 144°. Find ∠a.
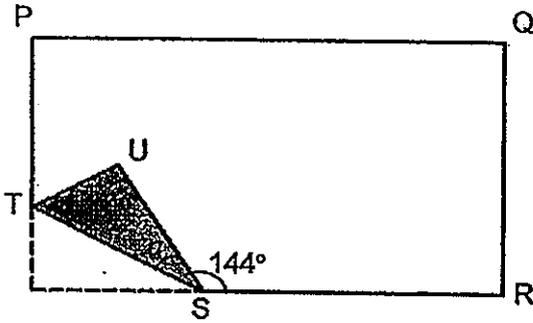
Ans: _____ °

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. Jenny made some paper cranes for her friends. Each day, she made 5 more cranes than the day before. She made 33 cranes on the sixth day. How many cranes did Jenny make on the first day?

Ans: _____

27. ABCD is a square..X and Y are the mid-points of the.square. Find the area of the shaded part of the figure.
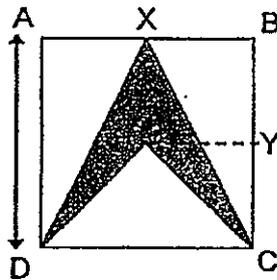
Ans: _____ cm²

(Go on to the next page)

28. The mass of a bag with some books is 3.407 g. The mass of the books is 1.8 kg more than the mass of the bag. Find the mass of the books. Give your answer correct to 2 decimal places.

Ans: _____ kg

29. James paid $84 for a pair of shoes after a 40% discount. Find the original price of the pair of shoes.

Ans: $_____

30. A rectangular tank measuring 40 cm by 30 cm by 40 cm is $\frac{5}{8}$-filled with water. How much more water is needed to fill the tank completely ?

40 cm

30 cm

40 cm

Ans: _____ ℓ

End of Booklet B

METHODIST GIRLS' SCHOOL
Founded in 1887

PRIMARY 5 END-OF-YEAR EXAMINATION 2013
MATHEMATICS
PAPER 2

Total Time: 1 h 40 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.
Write your answers in this booklet.
The use of an approved calculator is expected, where appropriate.

Name: _____ (   )

Class: Primary 5. _____

Date: 8 October 2013

60

This booklet consists of 14 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. Faith donated $220 of her money to charity and spent $\frac{3}{7}$ of her remaining money on some books. She had $176 left. How much money did Faith have at first?

   Ans: $ _____

2. The average height of Tom and Mark is 1.54 m. Tom is 15 cm taller than Mark. What is Tom's height?

   Ans: _____ cm

3. In the figure below, ABCD is a rhombus. ∠FDE = 65°. Find ∠BCD.

Ans: _____°
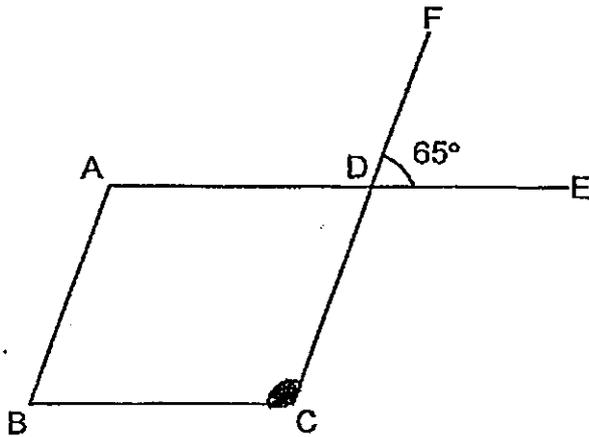
4. Mrs Tan bought an oven which cost $550. In addition, she had to pay 7% GST. How much did she pay for the oven altogether?

Ans: $ _____

5. John used some 1-cm cubes to make the figure as shown in the diagram below. How many more cubes are needed to make it into a bigger cube measuring 4 cm by 4 cm by 4 cm?
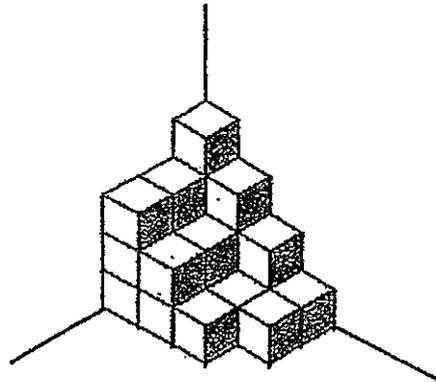
Ans: _____

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. Amy and Betty went shopping with an equal amount of money each. Amy spent $56 and Betty spent $17. In the end, Betty had 4 times as much money left as Amy. How much money did Betty have at first?

Ans: _____ [3]

7. There are altogether 494 pears and oranges at a fruit stall. $\frac{2}{5}$ of the number of pears is equal to $\frac{1}{4}$ of the number of oranges. Find the number of oranges at the fruit stall.

Ans: _____ [3]

(Go on to the next page)

8. Five girls bought three identical presents for three of their teachers and they shared the cost of the presents equally among them.
    Given that each present cost $25.75, how much did each girl pay?

    Ans: _____ [3]

9. Find the area of the unshaded part in the figure shown below.
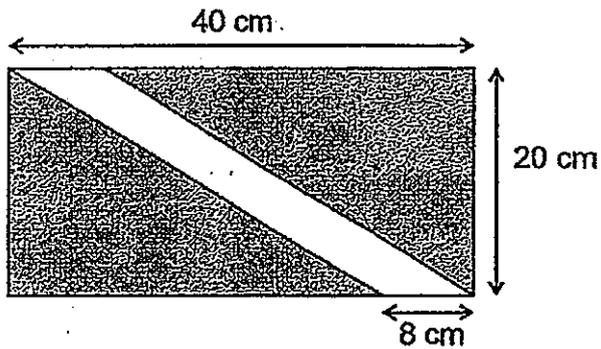
    Ans: _____ [3]

10. Mrs Lim bought 5 packets of cookies from a shop. The average mass of 2 of the packets was 280 g. The total mass of the other 3 packets was 960 g. Find the average mass of the 5 packets of cookies.

Ans: _____ [3]

11. Draw a rhombus ABCD in which AB = 4 cm and ∠ABC = 130°. The line AB has been drawn for you. Label the diagram clearly. [3]

A

B
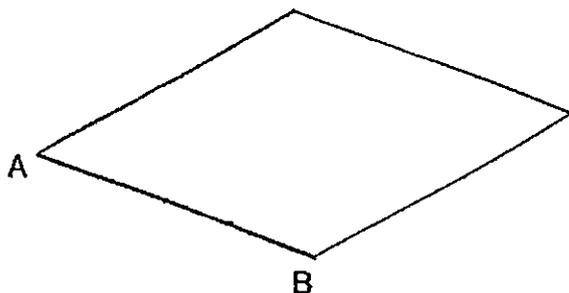
12. At a party, there were 810 red and pink balloons. $\frac{5}{9}$ of the balloons were heart-shaped and the rest were round. Of the heart-shaped balloons, $\frac{2}{5}$ of them were pink and the rest were red. Of the round balloons, 120 of them were pink and the rest were red.

(a) How many red heart-shaped balloons were there?

(b) What fraction of the balloons was pink?
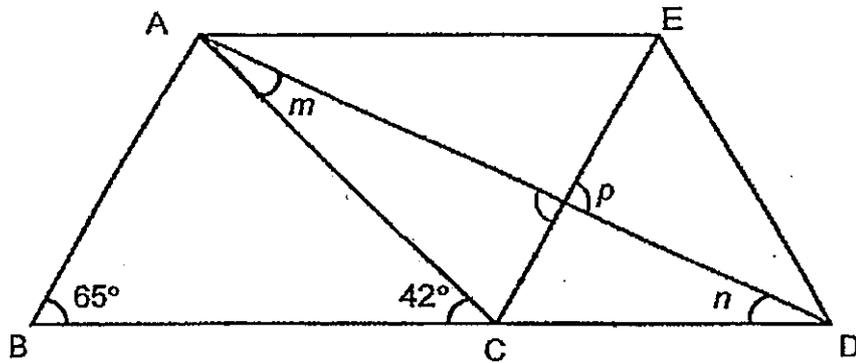Give your answer in the simplest form.

Ans: (a) _____ [2]

(b) _____ [2]

13. The figure below is made up of a parallelogram ABCE and a triangle CDE. $\angle ABC = 65°$ and the ratio of $\angle m$ to $\angle n$ is 3 : 4. Find
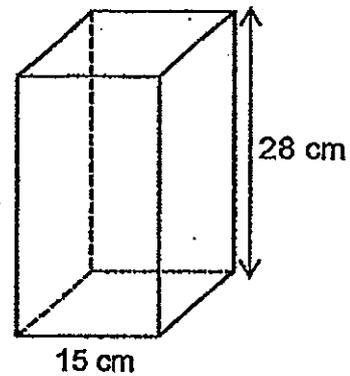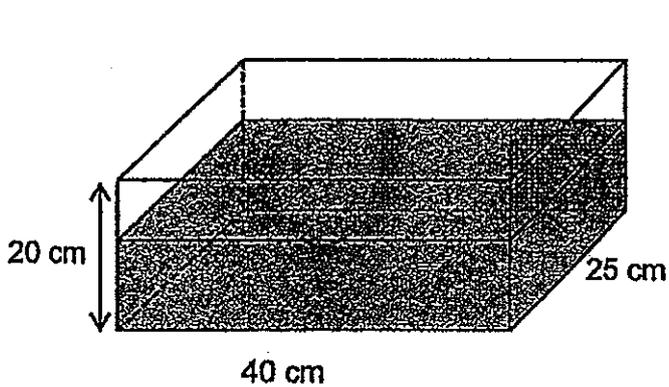
(a) $\angle m$

(b) $\angle p$

Ans: (a) _____ [2]

(b) _____ [2]

14. A rectangular tank measuring 40 cm long, 25 cm wide and 20 cm high is $\frac{3}{5}$-filled with water. The water is then poured into a smaller tank with a square base of side 15 cm and a height of 28 cm until it is full. How much water is left in the rectangular tank? Give your answer in litres and millilitres.

20 cm

40 cm

25 cm

28 cm

15 cm

Ans: _____ [4]

15. Study the pattern shown below.
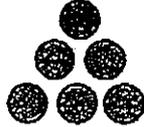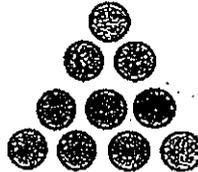
Figure 1   Figure 2   Figure 3   Figure 4

(a) Complete the table for Figure 5. [1]

Figure	1	2	3	4	5
Total number of dots	1	3	6	10	

(b) How many dots are there in Figure 10?

(c) Which figure number has 120 dots?

Ans: (b) _____ [2]

(c) _____ [2]

(Go on to the next page)

16. There were $\frac{3}{7}$ as many women as men at a funfair. Each woman bought 10 booklets of coupons. Each man bought 40% as many booklets of coupons as each woman. Altogether, 2 320 booklets of coupons were sold.

(a) How many men were at the funfair?

(b) How many booklets were sold to the women?

Ans: (a)_____ [3]

(b)_____ [2]

17. There were 200 children at a concert.

The ratio of the number of adults to the number of boys was 10 : 1.

The ratio of the number of adults to the number of girls was 5 : 2.

During the interval, 10% of the adults and $\frac{3}{4}$ of the girls left the concert.

(a) How many people were there at the concert at first?

(b) What is the ratio of the number of adults to the number of boys to the number of girls in the end?

Ans: (a) _____ [3]

(b) _____ [2]

(Go on to the next page)

18. Mrs Lim had a box of buttons. 40% of the buttons were red, 25% of the remainder were blue and the rest of the buttons were yellow. She had 270 yellow buttons.

(a) How many red buttons were there in the box at first?

(b) If Mrs Lim added in another 40 red buttons into the box, what percentage of the buttons would be red?

Ans: (a) _____ [2]

(b) _____ [3]

End of Paper

6.3u---56-17=39
   4u --- 52
   52+17=69
7.13u----494
   1u --- 38
   8u --- 304
8. 25.75x3=77.25
   77.25÷5=15.45

9.40x20=800
½ x (40-8)x20=320
1/2x(40-8)x20=320
800-(320x2)=160

10. 280x2=560
   560+960=1520
   1520÷5=304

11.
12. A. 1u ---- 810÷9=90
   3u ---- 270

   B. 2u ---- 180
   180+120=300
   300/810 = 10/27

13. A. 180-73-65=42
   42÷7=6
   6x3=18

   B. 180-18-73=89

14. 3/5 x 20x70x25=12000
   15x15x28=6300

   12000-6300=5700
   5L700ml
15. A. 15+6+7+8+9+10=55
   B. 15

16.A. 3x10+7x4=58
   2320÷58=40
   40x7=280
   B. 280÷7=40
   40x3x10=1200

17. A) G:A:B
     10:1
     2:5

     20:50:5
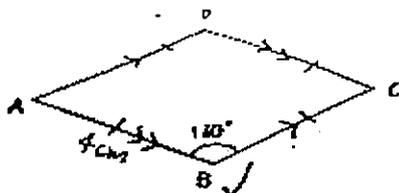
$200 \div 25 = 8$

$200 + (8 \times 50) = 600$

B. $90/100 \times 400 = 360$

$8 \times 20 = 160$

$\frac{1}{4} \times 160 = 40$

$5 \times 8 = 40$

18. A. 75% ---- 270

25% --- 90

100% --- 360

60% ---- 360

40% --- 240

B. 100% ---- 600

$600 + 40 = 640$

$280/640 \times 100\% = 43.75\%$