Rosyth School
First Semestral Assessment 2012
Primary 6 Mathematics

Name: _____   Register No. _____

Class: Pr 6 -_____

Date: 10 May 2012   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)		

* This booklet consists of 6 pages (excluding 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     $4.035 \times \underline{\hspace{2cm}} = 4\,035$
What is the missing number?

     (1)   1

     (2)   10

     (3)   100

     (4)   1000

2   Express 0.6% as a decimal.

     (1)   0.006

     (2)   0.06

     (3)   0.6

     (4)   6

3   Simply $9 + 7y - 3y - 3$.

     (1) $6 - 10y$

     (2) $6 - 4y$

     (3) $6 + 4y$

     (4) $12 - 4y$

4. Andrew has some cakes. $\frac{1}{6}$ of them were chocolate cakes. $\frac{3}{5}$ of the remainder were fruit cakes and the rest were pandan cakes. What fraction of the cakes were pandan cakes?

(1) $\frac{7}{30}$

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

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

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

5. Which of the following is not equivalent to 80%?

(1)   0.08

(2)   0.8

(3) $\frac{24}{30}$

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

6. Bala scored 8 more marks in his Math test than Science Test. This was 110% of his marks in his Science Test. What were his marks for his Math Test?
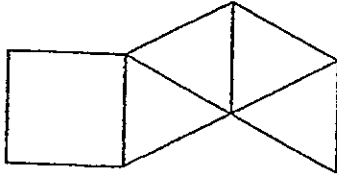
(1)   72
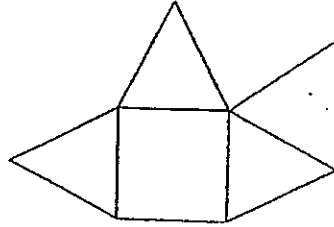
(2)   80

(3)   88

(4)   96

7   Ibrahim walked from his home to school, which is 1.4 km away, at an average speed of 70 m/min. How many minutes did Ibrahim take to walk from his home to school?

    (1)   0.02 min

    (2)   2 min

    (3)   9.8 min

    (4)   20 min

8   The ages of Cheryl and Devi are in the ratio 5 : 2 . Devi is 12 years younger than Cheryl. What is Cheryl's age?

    (1)   17 years old

    (2)   20 years old

    (3)   28 years old

    (4)   30 years old

9    $\frac{3}{4}$ of Fandi's money is equal to $\frac{1}{3}$ of George's money. Find the ratio of Fandi's money to George's money.

    (1)   3 : 1

    (2)   4 : 3

    (3)   4 : 9

    (4)   9 : 4

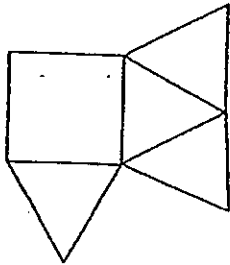10   Which one of the following nets can be folded into a pyramid?
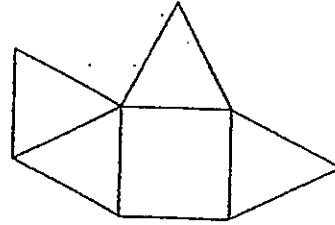
(1)

(2)

(3)

(4)

11   A fish tank was 75% filled with water. When 105 *ml* of water was poured out, the fish tank was half full. How much water was left in the tank?

(1)   140 *ml*
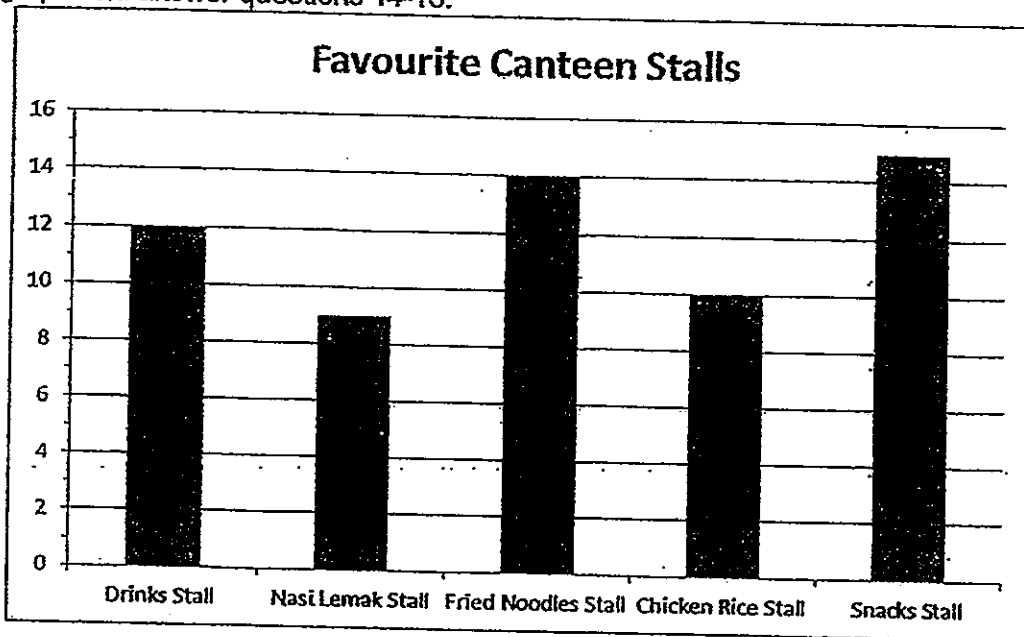
(2)   210 *ml*

(3)   315 *ml*

(4)   420 *ml*

12   Eliza bought 4 different books. The first book cost $16 and the average cost of the remaining books was $\frac{3}{4}$ of the cost of the first book. How much did she pay for all the books?

(1) $ 36

(2) $ 48

(3) $ 52

(4) $ 64

13.   Hannah, Jabir and Kendrik shared a sum of money. Hannah received 40% of the money. The ratio of Jabir's money to Kendrik's money was 5 : 1 .
If Hannah received $12 more than Kendrik, what was the sum of money?

(1) $ 18

(2) $ 30

(3) $ 40

(4) $ 120

A group of students were asked to choose their favourite canteen stalls. Study the bar graph and answer questions 14-15.

Favourite Canteen Stalls

14   How many more pupils preferred the Snacks Stall to the Nasi Lemak Stall? Express it as a percentage of the total number of pupils surveyed.

     (1)   1 %

     (2)   10 %

     (3)   15 %

     (4)   25 %

15   Based on the above results, 20% of the total number of students surveyed preferred this stall. Which stall was it?

     (1)   Drinks Stall

     (2)   Nasi Lemak Stall

     (3)   Fried Noodles Stall

     (4)   Chicken Rice Stall

(Go on to Booklet B)

Rosyth School
First Semestral Assessment 2012
Primary 6 Mathematics

Name: _____   Register No. _____

Class: Pr 6 - _____

Date: 10 May 2012   Parent's Signature: _____

Total Time for Booklets A and B : 50 minutes
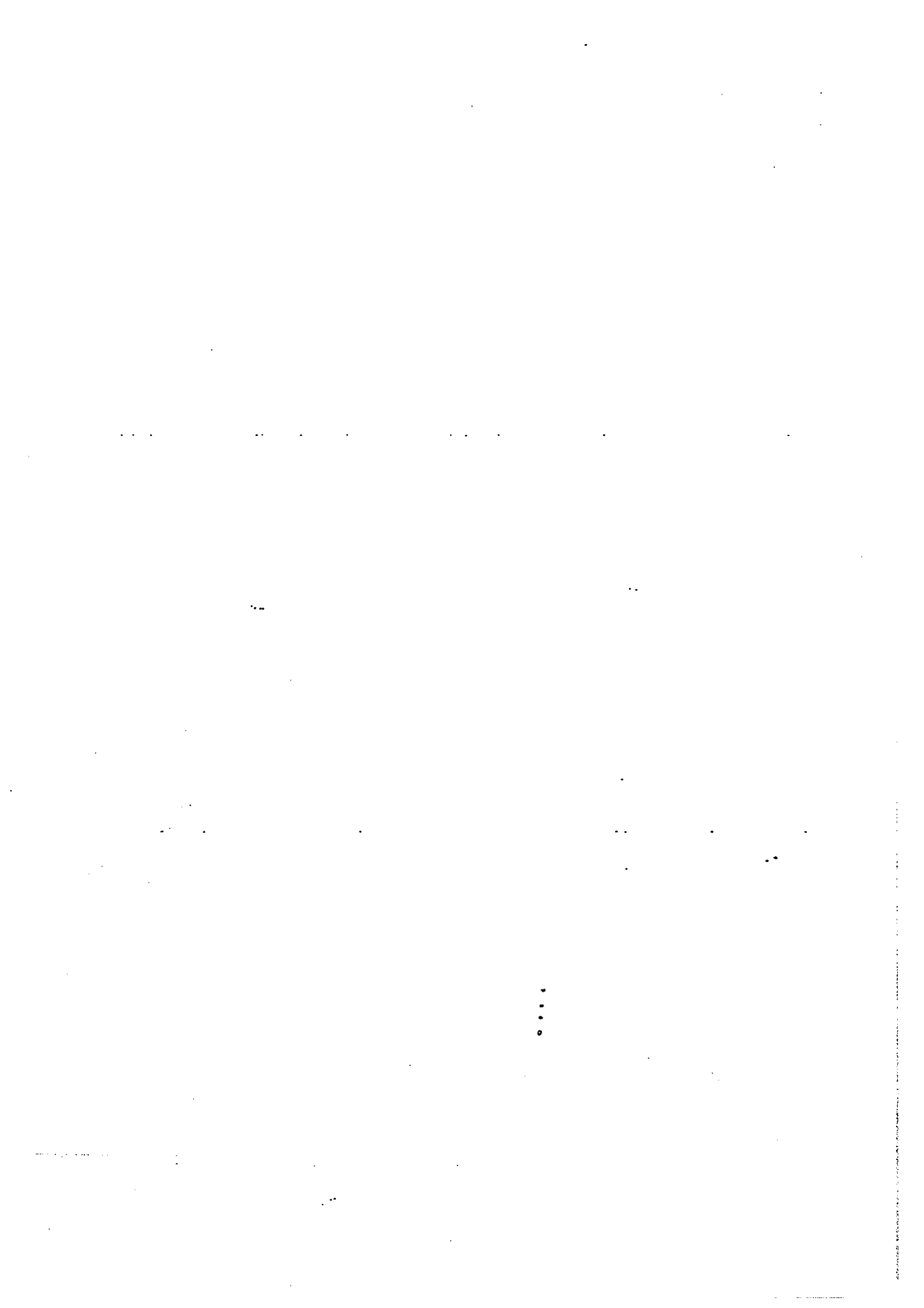

PAPER 1
(Booklet B)

<u>Instructions to Pupils:</u>

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

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

* This booklet consists of 7 pages (excluding 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. Express 6.55 as a mixed number in the simplest form.

Ans:

17. Evaluate the expression given that $x = 3$.
$4x - 3 + x + 8 - 2x$

Ans: _____

18. The average score of 5 pupils is 78. Another pupil, Jie Ke, joins in and the average becomes 77. What is Jie Ke's score?

Ans:

1

19. Leonard cycles 2 km in 10 min. What is his speed in m/min ?

Ans: _____m/min

20. The ratio of the number of Mark's sweets to Nichola's sweets is 10 : 3
If Mark eats $\frac{1}{2}$ of his sweets, what will the new ratio be?
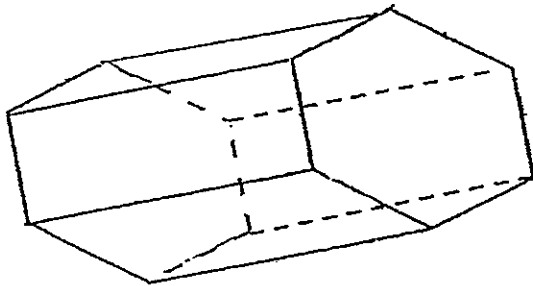
Ans: _____

21. Oliver, Paul and Quentin shared a sum of money in the ratio 5 : 2 : 4 .
What fraction of the sum of money did Paul receive?

Ans: _____

2

22. How many faces does the solid below have?

Ans:

---

23. Aunty Lim sold $\frac{1}{3}$ of the fruits in the morning and $\frac{2}{5}$ of the remaining fruits in the afternoon. If she had 120 fruits left, how many fruits did she have at first?
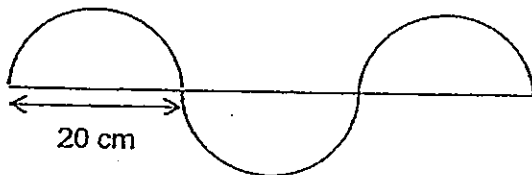
Ans:_____

24. A shopkeeper gave a 10% discount on all items in his store.

How much would a customer pay for a camera that originally cost $235?

Ans: $

25. The figure (not drawn to scale) is made up of three identical semicircles, each of diameter 20 cm. Find the area of the figure.
(Take $\pi = 3.14$)

20 cm

Ans:_____ cm^2

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. Sharon bought a shirt with $\frac{1}{2}$ of her money. She then used $\frac{1}{4}$ of the remainder to buy 5 similar pairs of socks.
What fraction of her money did Sharon spend on one pair of socks?

Ans:_____

27. Vicky has thrice as many stickers as Wei Hao. Wei Hao has twice as many stickers as Xavier. If the three of them have a total of 72 stickers, how many stickers does Vicky have?

Ans:_____

5

28. Mr Tan is 48 years old. His son is 30 years younger than he is. In how many years' time will Mr Tan be twice as old as his son?

Ans:

29. Tim travelled a total distance of 120 km. He travelled half of his journey at an average speed of 80 km/h and the rest at 60 km/h. He started his journey at 7 a.m. At what time would he reach his destination?

Ans: _____ a.m.

6

30. The ratio of the number of apples to the number of oranges at a stall was 1 : 7. After Mrs Yong bought half of the oranges, there were a total of 162 apples and oranges left at the stall.
How many oranges did Mrs Yong buy?

Ans: _____

End of Paper

Rosyth School
First Semestral Assessment 2012
Primary 6 Mathematics

Name:_____   Register No._____

Class: Pr 6 -_____

Date: 10 May 2012   Parent's Signature:_____

Time: 1 h 40 min

PAPER 2

Instructions to Pupils:

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

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

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

* This booklet consists of 16 pages (excluding 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) Alex weighs $(w + 3)$ kg. Caleb weighs 2 kg less than Alex. Benny weighs 1 kg more than Caleb. What is the total mass of the three boys?

Ans: _____ kg

2) The number of boys in Class A was 35% more than the number of boys in Class B. If there are 27 boys in Class A, how many boys are there in Class B?

Ans: _____

1   (Go on to the next page)

3) The price of a movie ticket is y. A cinema offers each adult a 30% discount and each child a 40% discount. Express the total amount of money two adults and one child need to pay in terms of y.

Ans: $_____

4) Sato had a total of 294 marbles. $\frac{5}{7}$ of the marbles was red and the rest was green. He bought some more green marbles. In the end, $\frac{1}{3}$ of the marbles was green. How many green marbles did he buy?

Ans:_____

(Go on to the next page)

5) A van and a bus were travelling along the same road in the same direction. The van travelled at an average speed of 66 km/h and the bus travelled at an average speed of 48 km/h. If the bus was 6 km ahead of the van at 3.30 p.m., at what time would the van overtake the bus?

Ans:_____ p.m.

3   (Go on to the next page)

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

(50 marks)

)   Jack, Kelly and Lenny each bought some sweets. Jack bought 4 times as

     many sweets as Kelly. Kelly bought 9 sweets less than Lenny. Lenny bought

     24 less sweets than Jack. How many sweets did Jack buy?

Ans:_____ [3m]

4   (Go on to the next page)

7) Chandra and Dalip had some stamps. Chandra had 65% of what Dalip had at first. Chandra then gave 80% of what he had to Dalip. As a result, Dalip had 417 more stamps than Chandra. How many stamps did Chandra have at first?

Ans: _____ [3m]

5

Yanni and Zaki both started reading "The Hungry Games" storybook on 8 May. Yanni read the same number of pages in a day. On 20 May, Yanni read up to page 104. Zaki read 5 pages in a day. On the day that Zaki read page 104, what would the last page that Yanni would have read up to?

Ans:_____ [3m]

6   (Go on to the next page)

9) Tank A and Tank B contained a total of 1 588 litres of oil altogether. After $\frac{5}{9}$ of the oil from Tank A and 323 litres of oil from Tank B were drained away, the volume of oil remaining in Tank A was twice the volume of oil remaining in Tank B. What was the volume of oil in Tank B at first?

Ans:_____ [3m]

Gina and Hema have $404 in total. Gina has $12 more than Hema. When Gina spends four times as much as Hema spends, Gina will have no money left. How much money has Hema left?

Ans: _____ [3m]

8   (Go on to the next page)

11) Charles used squares and equilateral triangles to form the following figures.
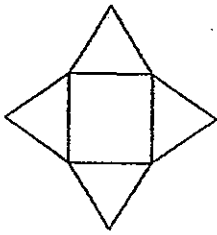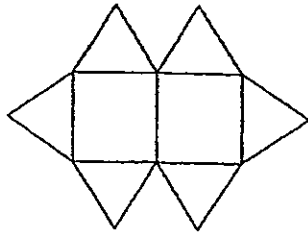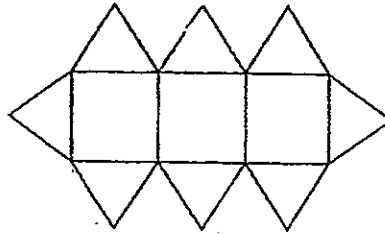

Figure 1   Figure 2   Figure 3

Do not write
in this space

Complete the table below.

Figure	Number of Squares	Number of Triangles	Total Number of Squares and Triangles
1	1	4	5
2	2	6	8
3	3	8	11
....	....	....	....
8	a) _____ (1m)	b) _____ (1m)	c) _____ (1m)

d) Which figure would he have formed if he used 65 squares and triangles in total? (Indicate the Figure number)

Ans: (d) _Figure_____ [2m]
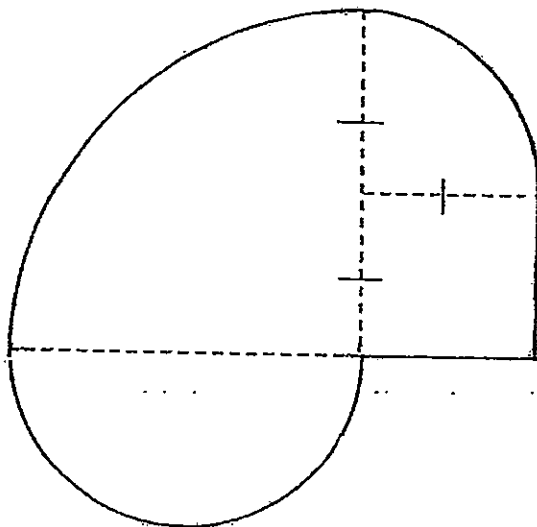
9   (Go on to the next page)

2) There were 280 pupils in the carnival. $\frac{1}{4}$ of the boys and $\frac{2}{3}$ of the girls remained in the carnival when 175 pupils left. How many girls were there in the carnival at first?

Ans:_____ [4m]

10   (Go on to the next page)

13) The figure below is formed by one square, one semi-circle and two quadrants.

If the area of the square is 49 cm², find the perimeter of the figure. (Take $\pi = \dfrac{22}{7}$)

Ans:_____ [3m]

(Go on to the next page)

) Ali, Billy, Cindy and Dezi shared a sum of $1170. Ali received $\frac{2}{3}$ of the total amount of money received by Billy, Cindy and Dezi Billy received $\frac{4}{9}$ of the total amount of money received by Cindy and Dezi. Dezi received $\frac{4}{5}$ the amount received by Cindy. How much money did Billy receive?

Ans: _____ [4m]

12.   (Go on to the next page)

15) A car started from Acorn Town and headed towards Banyan Village. At the same time, a lorry started from Banyan Village and headed towards Acorn Town. The speed of the car was 28 km/h faster than the speed of the lorry. After an hour, they were 186 km apart. After another $1\frac{1}{2}$ hour, they passed each other. What was the speed of the car?

Ans:_____ [4m]

13   (Go on to the next page)

16) Mr Tan spent $6 600 of his monthly salary to repay a loan. He gave 48% of the remainder to his wife. As a result 87% of his salary was used.

a) What was Mr Tan's monthly salary?

b) If Mr Tan saved 25% of what he had left, how much did he save?

Ans: (a)_____ [3m]

(b)_____ [2m]

(Go on to the next page)

17) The ratio of the number of men to the number of women in an auditorium was 5 : 6 at first. After 18 men entered the auditorium and 98 women left the auditorium, the ratio has now become 8 : 5. What is the total number of men and women in the auditorium now?

Ans:_____ [5m]

15   (Go on to the next page)

18) Aisha took $\frac{1}{2}$ hour to walk from Village A towards Village B at a uniform speed.

Baoli took $\frac{3}{4}$ hour to walk from Village B towards Village A at a uniform speed.
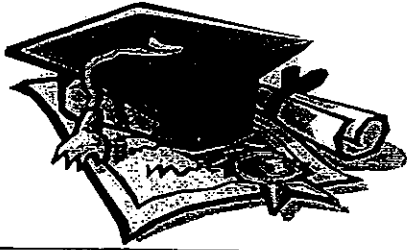
Both of them started at 2.20 p.m.

i) At what time did Aisha and Baoli pass each other along the way?

ii) At the same time that Aisha reached Village B, Carol started to walk from Village A towards Village B at the same uniform speed as Aisha. At what time did Baoli and Carol meet?

Ans: (a)_____ [3m]

(b)_____ [2m]

End of Paper

16

EXAM PAPER 2012

SCHOOL : ROSYTH
SUBJECT : PRIMARY 6 MATHEMATICS

TERM : SA1

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

16) $6\frac{11}{20}$ 17) 14   18) 72   19) 200m   20) 5 : 3

21) 2/11   22) 8 faces   23) 300   24) $211.50   25) 471cm²

26) 1/40   27) 48   28) 12   29) 1¾h   30) 126

Paper 2

1) (3w+6)kg   2) 20   3) $2y   4) 21   5) 20min

6) 44   7) 195   8) 168 days   9) 553   10) $144

11) a) 8   12) 84 girls   13) 69   14) 216   15) 76km/h
    b) 18
    c) 26

16) a) 8800   17) 338   18) a) 2.38pm
    b) 1144   b) 6 min