Rosyth School
First Semestral Assessment 2008
Mathematics
Primary 5
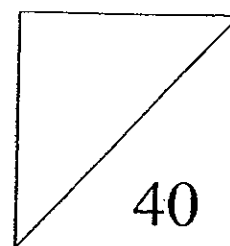
Name: _____

Class: Pr 5-_____   Register No. _____

Duration: 50 minutes

Date: 9 May 2008   Parent's Signature:_____ –

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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 15 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	20 marks	
B	20 marks	
Paper 1 Total		

This paper consists of _13_ pages altogether.
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Booklet A

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1) The population of Townsville is about 18 000 when rounded off to the nearest thousand. Which of the following could be the actual population size of Townsville?

   (1)   18 195

   (2)   18 501

   (3)   17 455

   (4)   17 099

2) What fraction of $2.40 is 40¢? Give your answer in its simplest form.

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

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

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

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

I

3) Find the value of $\frac{8}{9} \times \frac{3}{4}$ in its simplest form.

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

(2) $\frac{11}{13}$

(3) $\frac{27}{32}$

(4) $\frac{24}{36}$

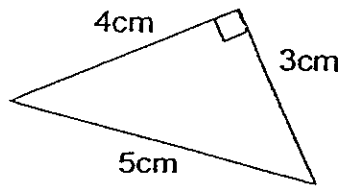4) Which of the following sets of fractions is arranged from the biggest to the smallest?

(1) $\frac{3}{4}, \frac{5}{6}, \frac{7}{8}, \frac{7}{12}$

(2) $\frac{5}{6}, \frac{7}{12}, \frac{3}{4}, \frac{7}{8}$

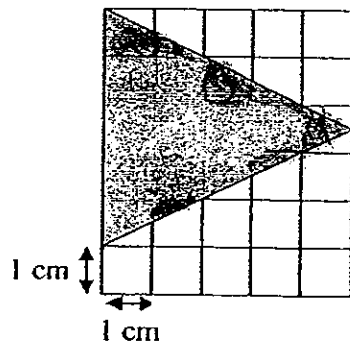(3) $\frac{7}{8}, \frac{5}{6}, \frac{3}{4}, \frac{7}{12}$

(4) $\frac{7}{12}, \frac{7}{8}, \frac{5}{6}, \frac{3}{4}$

2

5) What is the area of the triangle below?

4cm

3cm

5cm

(1) 6cm^2

(2) 7.5cm^2

(3) 10cm^2

(4) 12cm^2

6) What is the area of the shaded triangle?

l cm

1 cm

(1) 10cm^2

(2) $12\frac{1}{2}$ cm^2

(3) 20cm^2

(4) 25cm^2

3

7) 3 boys share a sum of money in the ratio of 4 : 3 : 7. If the smallest amount is $21, find the largest share.

(1) $7

(2) $28

(3) $49

(4) $147

8) In a class of 42 pupils, 7 of them are girls. What is the ratio of the number of girls to the number of boys in the class?

(1) 1 : 5

(2) 1 : 6

(3) 1 : 7

(4) 5 : 6

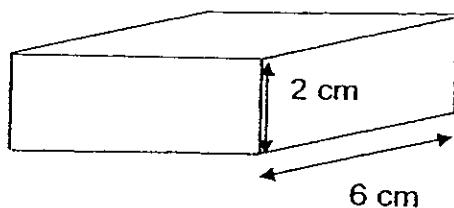9) What is the volume of a cube with sides 9 cm?

(1) $27cm^3$

(2) $36cm^3$

(3) $81cm^3$

(4) $729cm^3$

4

10) The diagram below, not drawn to scale, shows a square-based cuboid. Find its volume.

2 cm

6 cm

   (1)   12cm³

   (2)   24cm³

   (3)   48cm³

   (4)   72cm³

11) The perimeter of a rectangle is 84cm. Its length is 32cm. What is the ratio of its breadth to the length of the rectangle?

   (1)   8 : 21

   (2)   10 : 21

   (3)   5 : 16

   (4)   5 : 8

12) Mrs Tan gave some money to Rebecca and Donovan in a ratio of 6 : 7. Rebecca spent $\frac{1}{2}$ of her share on a pair of socks which costs $9.00. How much was Donovan's share?

   (1) $3.00

   (2) $10.50

   (3) $18.00

   (4) $21.00

13) A rectangular tank is 20cm long, 15cm wide and 12cm high. It is half filled with water. If Izuan were to use a 300ml beaker to fill the tank with water, how many beakers of water will he require to fill the tank to the brim?

    (1)   6

    (2)   12

    (3)   36

    (4)   60

14) Find the area of the shaded part.
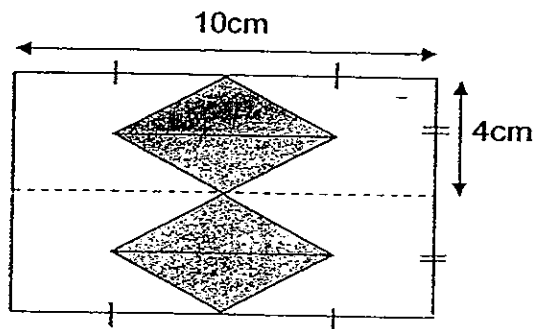
    (1) $20cm^2$

    (2) $40cm^2$

    (3) $80cm^2$

    (4) $160cm^2$

15) A tank is 20cm long, 10cm wide and 5cm high. What is the maximum number of 2-cm cubes it can hold?

    (1)   75

    (2)   100

    (3)   125

    (4)   500

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) $24 \times 40 = \boxed{} \times 8$

What is the missing number in the box?

Ans: _____

17) $\dfrac{3}{7}$ of a number is 27. What is that number?

Ans: _____

18) $8 \times 21 = 21 + 21 + 21 - 21 + 21 + 21 + \boxed{}$
What is the missing number in the box?

Ans: _____

19)   Nicholas poured some soda from a 1.5 litre bottle into 2 cups to the brim. If each cup has a capacity of 325 mℓ, how much soda did he have left?

Ans: _____ ℓ

20) $\dfrac{42}{\boxed{}} = \dfrac{7}{12}$. What is the missing number in the box?

Ans: _____

21) A fruit seller sells apples and pears in a ratio of 5 : 9. If he sold 450 pears, how many apples did he sell?

Ans: _____

22) $\dfrac{5}{8}$ of the Primary 5 pupils in Midland Primary School are girls. If there are 96 boys in the level, how many P5 pupils are there altogether?

Ans: _____

23) Find the value of $366 - 30 \div 5 \times (32 - 18)$.

Ans: _____

24) For every 7 pupils who came for a running test, only 2 passed. If 42 pupils passed the running test, how many pupils came for the running test?

Ans: _____

25) Sze Min has 420 marbles. Bernice has $\frac{4}{7}$ as many marbles as Sze Min has. How many more marbles does Sze Min have than Bernice?

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 area of square A is twice as much as the area of rectangle B. If the area of square A is 64cm², find the area of triangle C.
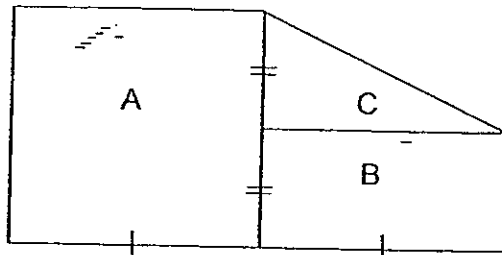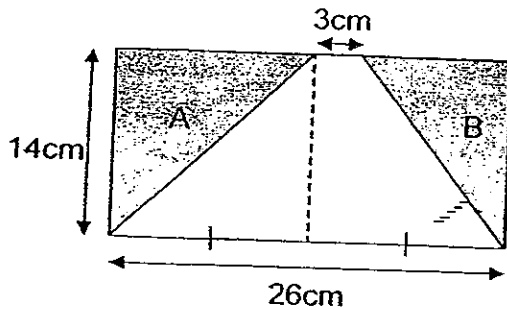

Ans: _____ cm²

27) Kay Lyn has $60 in her wallet. She spent $\frac{1}{4}$ of it on a pair of shoes and gave $\frac{3}{5}$ of the remainder to Ee Lyn. How much had she left?

Ans: $ _____

28) The figure below is not drawn to scale.
Find the area of the shaded part of the rectangle.

Ans: _____ cm²

29) There are 42 passengers on a bus. The ratio of the number of adults to the number of children on the bus is 1 : 6. Half-way through the journey, 4 adults boarded the bus while 2 children alighted from the bus. What is the ratio of the number of adults to the number of children still on the bus? Express your answer in its simplest form.

Ans: _____

30) The triangle XYZ and the rectangle ABCD, both not drawn to scale, have the same perimeter. AB is 3 times as much as AD. Find the area of triangle ACD.

X

8cm

6cm

Z ——— 10cm ——— Y

A   B

D   C
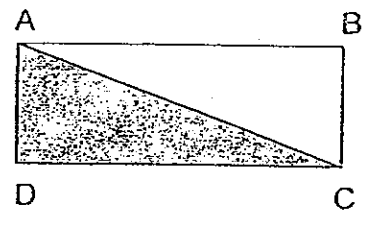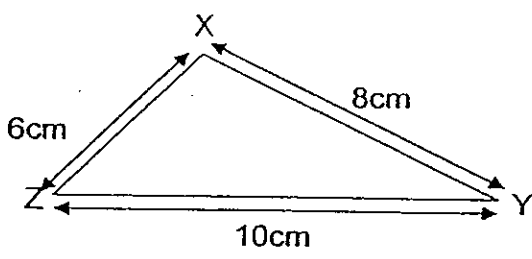
Ans: _____ cm^2

~END OF PAPER 1~

13

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Primary 5

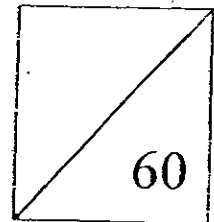Name: _____

Class: Pr 5-._____   Register No. _____

Duration: 1h 40 minutes

Date: 9th May 2008

Parent's Signature: _____

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PAPER 2

Questions	Total Marks	Marks
Q 1 to 5	10 marks	
Q6 to 18	50 marks	
	Paper 2 Total	

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)

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1) What is the missing number in the box?

$639 \div 3 = \boxed{} \times 3 + 3$

Ans: _____

Fraction

2) What is the missing number in the box?

$\dfrac{1}{2}$ of $120 = \boxed{}$ of 180

Ans: _____

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3) The figure below is not drawn to scale. Find the shaded part.

R ◄———————18cm———————► S

7cm

3cm

U ◄———8cm———► T

Ans: _____ cm²

1

4) There are 45 marbles in a box. 21 of them are red and the rest are green. Find the ratio of the number of red marbles to the number of green marbles. Give your answer in the simplest form.

Ans: _____

5) A rectangular container 23 cm long, 28 cm wide and 15 cm high is filled with water to a depth of 7 cm. Find the volume of water in the container. Give your answer in litres and millilitres.

Ans: _____ l _____ml

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

(50 marks)

6) Alim bought some chocolates. He ate the same number of chocolates every day. After 3 days, he had $\frac{4}{5}$ of the chocolates left. After another 5 days, he had 21 chocolates left. How many chocolates did he have at first?

Ans:_____[3]

7) Ann had 85 stamps and her sister, Jane had 400 stamps. After their friend gave each of them an equal number of stamps, Ann has $\frac{1}{4}$ as much as her sister. How many stamps did their friend give each of them?

Ans:_____[3]

3

8) A television set costs $2\frac{1}{2}$ times as much as a washing machine and the washing machine costs 3 times as much as the DVD player. Mr Ng paid $2280 for 2 television sets, 1 washing machine and 2 DVD players. How much does a television set cost?

Ans:_____[3]

9) The ratio of the number of comic books to the number of magazines is 3 : 7. If there are 875 magazines, how many more magazines than comic books are there?

Ans:_____[3]

4

10) The ratio of the number of cows to the number of goats in a farm was 4 : 11. Then 252 goats were sold and the number of cows is now twice the number of goats.

a) How many more goats than cows were there at first?

b) How many cows and goats were left altogether

Ans: (a)_____[2]

(b) _____ [1]

11) Lena sold some cakes in January. After that, she sold 46 more each month than the month before. By May, she sold a total of 825 for the past 5 months. How many cakes did she sell in February?

Ans: _____ [4]

12) Steven packed rice into packets of two different sizes. The mass of 5 large packets and 2 small packets is 102 kg. If each large packet is 3 times as heavy as the small packet, what is the mass of a large packet of rice?

Ans:_____[4]

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13) The ratio of number of teachers to the number of pupils in a school is 3 : 11. There are 15 male teachers. The ratio of number of male teachers to the number of female teachers is 1 : 4. How many teachers and pupils are there in the school?

Ans:_____[4]

14) May and Jane went to Hong Kong Disneyland for a holiday. May had only some money left so she borrowed $125 from Jane. Together with all the money she had, she bought a souvenir mug for $48 and 3 t-shirts for $258. Later she spent $\frac{1}{2}$ of the money she had left on dinner with Jane. That left her with $97.

a) How much money did May have at first?

b) Express as a fraction the amount of money she borrowed from Jane to the amount she has at first.

Ans: (a)_____[2]

(b)_____[2]

15) Container A measures 28 cm by 25 cm by 50 cm. Johnny pours 3 full pails of water into the Container A. Each pail had a capacity of 5 litres.

a) How many more full pails of water must he pour into Container A to fill the container to the brim?

b) The water in Container A was then poured into Container B until it was filled to its brim. How much water was left in container A ?

A

50 cm

25 cm

28 cm

B

25 cm

22 cm

32 cm
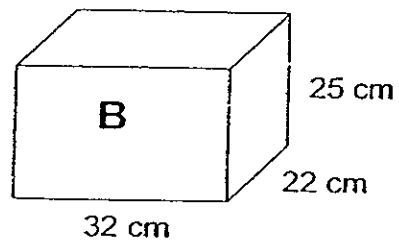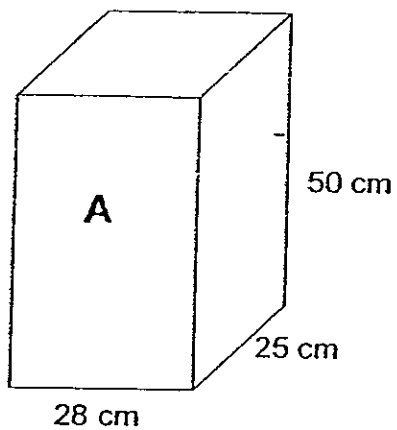
Ans: a) _____ [2]

b) _____ [2]

16) Emily, Flora and Gina had some stickers. Flora had $\frac{1}{2}$ as many stickers as Emily. After Flora gave Emily $\frac{3}{5}$ of her stickers and Gina gave Emily $\frac{4}{7}$ of her stickers, Emily had 80 stickers and Gina had 21 stickers.

a) How many stickers did Emily have at first?

b) How many stickers did Flora have left?

Ans: a) _____[4]

b) _____ [1]

9

17) A tin of candy costs $12 and a box of cookies costs 4 times as much as a tin of candy. Keegan bought some tins of candy and boxes of cookies for $504. He bought 3 more boxes of cookies than candy.

a) How many tins of candy did he buy?

b) How many boxes of cookies did he buy?

Ans: a) _____ [4]

b) _____ 1]

18) Chin Siong has a piece of paper of length 30 cm and breadth 21 cm. He wants to cut out some right-angled triangles of base 3cm and height 4cm from the piece of paper.

a) What is the maximum number of right-angled triangles he can cut from the piece of paper?

b) What is the area of the piece of paper left unused?

(The diagrams below are not drawn to scale)

21 cm

30 cm

4 cm

3 cm
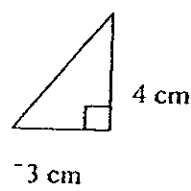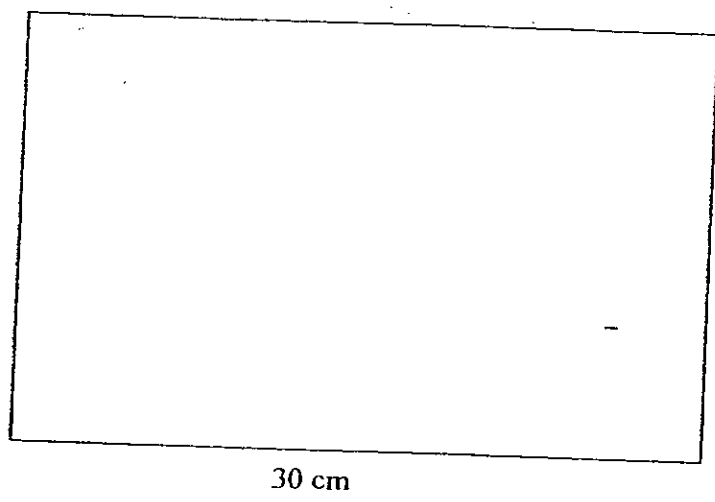
Ans: a) _____ [4]

b) _____ [1]

~END OF PAPER~

Have you checked your work thoroughly?

11
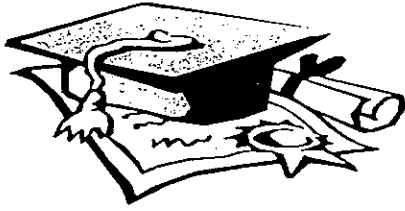
ANSWER SHEET

EXAM PAPER 2008

SCHOOL   : ROSYTH PRIMARY SCHOOL
SUBJECT : PRIMARY 5 MATHEMATICS

TERM   : SA 1

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

16)120   17)63   18)84   19)0.8750

20)72   21)250   22)256   23)282

24)147   25)180   26)16cm^2 27)$18

28)161cm^2 29)5:17   30)13.5cm^2

Paper 2

1)70   2)1/3   3)102cm^2 4)7:8

5)4L 508ml   6)45   7)20   8)$855

9)500   10)a)196   b)168   11)119

12)18kg   13)350   14)a)$375   b)1/3   15)a)4
                                                     b)17L400ml

16)a)40   b)8   17)a)6   b)9

18)a)100   b)30