



**Rosyth School**  
**Second Continual Assessment 2012**  
**Primary 5 Mathematics**

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

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

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

Date: 14 August 2012

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

Total Time for Booklets A and B : 50 minutes

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**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 4 pages (excluding this cover page)

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

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

(1) 14

(2) 2

(3) 20

(4) 50

2. Kaile had 198 marbles. She kept 54 and gave the rest equally to several friends. Each friend received 18 marbles. How many friends did she give the marbles to?

(1) 7

(2) 8

(3) 11

(4) 14

3. Larry has thrice the number of stamps as Gary. If they have a total of 192 stamps, how many stamps does Larry have?

(1) 48

(2) 64

(3) 96

(4) 144

4.  $5\frac{1}{4} - 1\frac{5}{8} = \underline{\hspace{2cm}}$

(1)  $3\frac{5}{8}$

(2)  $4\frac{3}{8}$

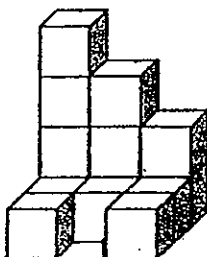
(3)  $4\frac{1}{2}$

(4)  $4\frac{5}{8}$

5. The ratio of the number of chickens to the number of horses in a farm is 2 : 3. There are twice as many horses as rabbits in the farm. What is the ratio of the number of chickens to the total number of animals in the farm?

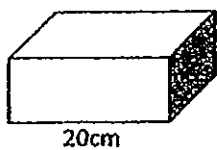
- (1) 2 : 5    (2) 2 : 11  
 (3) 2 : 13                                        (4) 4 : 13

6. How many cubes are used to build the solid shown below?



- (1) 11    (2) 12  
 (3) 13    (4) 14

7. The area of the shaded face of the cuboid is  $50\text{cm}^2$ . What is the volume of the cuboid?



- (1)  $70\text{ cm}^3$                                         (2)  $100\text{ cm}^3$   
 (3)  $500\text{ cm}^3$                                     (4)  $1\,000\text{cm}^3$

8. Express 16 as a percentage.

- |          |           |
|----------|-----------|
| (1) 1.6% | (2) 16%   |
| (3) 160% | (4) 1600% |

9. Express 1 litre as a percentage of 500 millilitres.

- |          |           |
|----------|-----------|
| (1) 20%  | (2) 200%  |
| (3) 500% | (4) 1000% |

10. There are 10 red pens, 2 green pens and 4 black pens in a box. What percentage of the pens in the box is black?

- |         |         |
|---------|---------|
| (1) 4%  | (2) 16% |
| (3) 25% | (4) 40% |

11. Mr Ang borrowed \$8 000 from a bank. The bank charges 10% interest on the loan per year. If Mr Ang pays off the loan in 2 years, how much does he have to repay the bank?

- |              |              |
|--------------|--------------|
| (1) \$8 800  | (2) \$9 600  |
| (3) \$9 7860 | (4) \$16 000 |

Go on to the next page

12. Andy, Bala and Cai Long shared a sum of \$160. Andy received 25% of the money, Bala received 30% of the money and Cai Long received the rest of the money. How much money did Cai Long receive?

- (1) \$45                                      (2) \$88  
(3) \$72                                      (4) \$105

13.  $\frac{2}{5}$  of the audience who attended a school talk were men,  $\frac{4}{15}$  were women and the rest were children. There were 280 fewer women than men. How many children were there?

- (1) 140                                      (2) 700  
(3) 1 400                                    (4) 2 800

14. Jonathan had  $\frac{1}{2}$  as many sweets as Bala. Jonathan gave Bala  $\frac{3}{4}$  of his sweets as a gift. What is the new ratio of the number of Jonathan's sweets to the number of Bala's sweets?

- (1) 1 : 11                                    (2) 3 : 4  
(3) 3 : 8                                      (4) 1 : 8

15. Arun has some 5-cent coins and 10-cent coins. The coins add up to \$1.85. There are 4 more 5-cent coins than 10-cent coins. How many 5-cent coins does Arun have?

- (1) 11                                        (2) 12  
(3) 14                                        (4) 15



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

Total Time for Booklets A and B : 50 minutes

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**PAPER 1**  
**(Booklet B)**

Instructions to Pupils:

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

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

\* This booklet consists of 6 pages (excluding 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.

Do not write  
in this space

(10 marks)

16. What is the total value of the digit 6 in 4 567 and 56 789?

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

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

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

18. What is the missing number in the box?

23 165 , 23 415 ,  , 23 915 , 24 165

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

19. What is the ratio of 5¢ to \$3?

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

20. What is the price of a \$150 printer after a 25% discount?

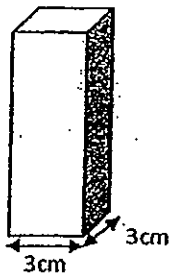


Usual price: \$150

Do not write  
in this space

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

21. The base of a cuboid is a square of side 3 cm. Its volume is  $207 \text{ cm}^3$ . Find its height.



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

22. What is the missing number in the box?

$$12 : \square = 16 : 240$$

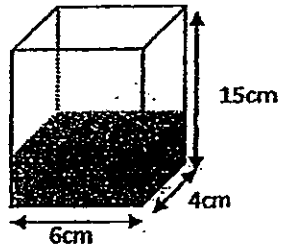
Ans: \_\_\_\_\_



23 ✖

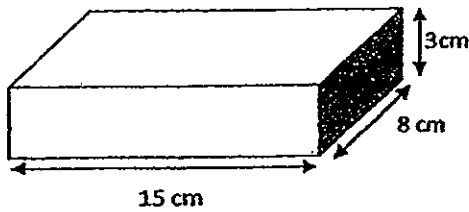
The container below is  $\frac{1}{3}$  filled with water. What is the volume of water in the container?

Do not write in this space



Ans: \_\_\_\_\_ cm<sup>3</sup>

24. What is the maximum number of 2-cm cubes that can be fitted in the box below?



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

25. Kevin had 220 beads at first. After his sister gave him 50 beads, they had an equal number of beads. How many beads did his sister have at first?

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)

Do not write  
in this space

26. Daphne gave 10% of her cupcakes to Eliza, 25% of them to Farah, 5% to Geeta and had 24 cupcakes left.  
How many cupcakes did Daphne give away altogether?

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

- 27 Hardy has twice as many cards as Ivan. Ivan has 40% as many cards as John. If the three boys have a total of 143 cards, how many cards does Hardy have?

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

28. A  $12\frac{1}{2}$  m of rope is cut into shorter pieces. Each of the shorter pieces is measured  $\frac{3}{4}$  m. How many  $\frac{3}{4}$  m pieces are there?

Do not write  
in this space.

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

29. A bag of marbles weighing 7 200g was repacked into 5 bags. The mass of the marbles in four of the bags was equal. The mass of the marbles in the fifth bag is twice the combined mass of the marbles in the four bags. Find the mass of the marbles in the fifth bag. Express your answer in grams.

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

30. Rashid spent \$24 on 15 pens and 10 erasers. If the cost of 1 pen is the same as the cost of 2 erasers, find the cost of each pen.

Do not write  
in this space

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

End of Paper 1



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

Date: 14 August 2012

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

Time: 1 h 40 min

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**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	

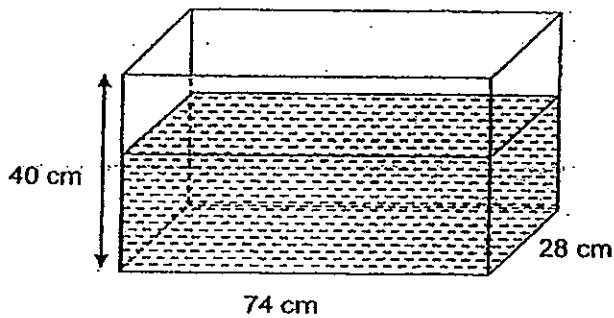
**Paper 2**

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

(10 marks)

Do not write  
in this space

1. A rectangular tank, measuring 74 cm by 28 cm by 40 cm, is  $\frac{3}{5}$  filled with water. Find the volume of the water that is needed to fill the tank completely.



Ans: \_\_\_\_\_ cm<sup>3</sup>

2. Mrs Annan is 29 years old. Her daughter is 5 years old. In how many years' time will Mrs Annan be four times as old as her daughter?

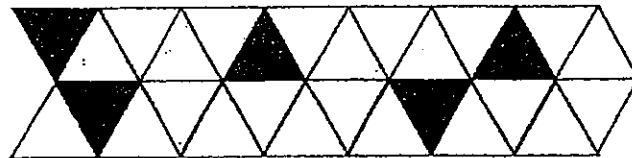
Ans: \_\_\_\_\_

3. A number is 4 times the second number. The difference between the two numbers is 1 074. What is the value of the bigger number?

Do not write  
in this space

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

4. In the figure shown below, how many more triangles must be shaded to make the ratio of the number of unshaded triangles to the number of shaded triangles 4 : 3?



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

5. The ratio of the number of Don's marbles to the number of Ryan's marbles is  $12 : 5$ . Don gave  $\frac{2}{3}$  of his marbles to Ryan and now had 18 marbles less than Ryan. How many marbles did they have altogether?

Do not write  
in this space

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



Questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. Do not write in this space (50 marks)

6. John is 6 kg heavier than Ivan. Ken is 9 kg heavier than John. The total mass of the 3 boys is 102 kg. Find Ken's mass.

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

7. In a fish farm, the ratio of the number of guppies to the number of clownfish is 3 : 5. The number of shellfish is  $\frac{3}{7}$  the number of clownfish. If there are 400 more clownfish than shellfish, how many guppies are there?

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

8. A cuboid has a volume of  $7\,350\text{ cm}^3$ . Its base is a rectangle which has a perimeter of  $70\text{ cm}$ . The ratio of the length to the breadth of the rectangle is  $3 : 2$ . Find its height.

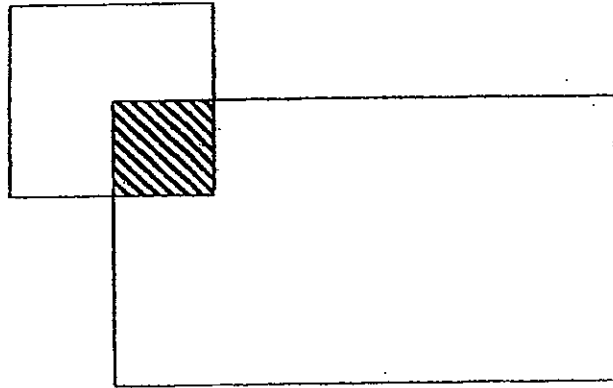
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Ans: \_\_\_\_\_ [3m]

9. The ratio of the number of mangoes to the number of oranges in a fruit stall is  $1 : 6$ . The number of oranges is  $75\%$  less than the number of apples. The total number of fruits in the stall is  $434$ . How many apples are there?

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

10. The figure below (not drawn to scale) is made up of a square and a rectangle. The ratio of the area of the square to that of the rectangle is  $2 : 7$ . If  $\frac{1}{8}$  of the square is shaded, what is the ratio of the unshaded area to the total area of the figure?



Do not write  
in this space

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

11. There were some customers in a restaurant at first. After a while,  $\frac{3}{4}$  of the men and  $\frac{2}{5}$  of the women left the restaurant. After that, 13 women arrived. There are now an equal number of men and women in the restaurant. If there are 68 adults in the restaurant now, how many women were there at first?

Do not write  
in this space

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

12. A rectangular tank has a base area of  $400 \text{ cm}^2$ .

$\frac{3}{8}$  of the tank is filled with water. Another 3.6 litres of water is needed to fill the tank to the brim. What is the height of the water in the tank at first?

Do not write  
in this space

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

13. A crate filled with oranges has a mass of 31 kg. When the same crate is filled with berries, it has a mass of 6 kg. The mass of the oranges is six times the mass of the berries.

(a) Find the mass of the empty crate.

(b) When the crate was filled with melons, the mass was 50 kg. If the average mass of one melon was 7 kg, how many melons were there?

Do not write  
in this space

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

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

Go on to the next page

14. Tony had some oranges at first. He threw away  $\frac{2}{9}$  of the oranges which were rotten. He gave away  $\frac{1}{3}$  of the remaining edible oranges to Hannah. The rest were packed into boxes of 7 oranges each. If Tony had 24 boxes of oranges in the end,
- (a) how many rotten oranges did he throw away?
  - (b) how many oranges did he have at first?

Do not write  
in this space

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

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

15. The total cost of 13 pens and 7 staplers is \$47. The total cost of 5 pens and 5 staplers is \$25. Find the total cost of 9 pens and 4 staplers.

Do not write  
in this space

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



16. The total number of marbles in Box A and Box B was 1 875 at first. After  $\frac{1}{4}$  of the marbles in Box A and 260 marbles in Box B were removed, the ratio of the number of marbles in Box A to the number of marbles in Box B became 9 : 7. Find the ratio of the number of marbles in Box A to the number of marbles in Box B at first. (Leave your answer in the simplest form.)

Do not write  
in this space

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

17. Mark gets \$4 more pocket money than Susie each week. They each spend \$17 per week and save the rest. When Mark saves \$132, Susie only saves \$108.

- (a) How many weeks does it take for Mark to save \$132 and Susie to save \$108?  
(b) How much pocket money does Susie get each week?

Do not write  
in this space

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

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

18. A confectionery factory baked a total of 2 699 muffins in 4 different flavours, Raspberry, Chocolate, Salted-Caramel and Blueberry. The Blueberry flavour was the most popular and Salted Caramel was the least popular flavour with a difference of 404. The difference in the number of muffins between Raspberry flavour and Blueberry flavour was 283. The difference in the number of muffins between the Chocolate flavour and Blueberry flavour was 150.

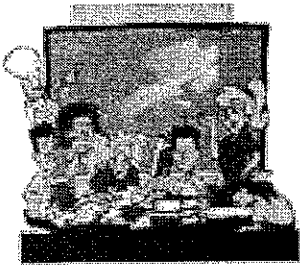
- (a) How many Blueberry flavour muffins were baked?
- (b) The muffins were packed into boxes for delivery. Each box can hold up to 15 muffins. What is the minimum number of boxes needed to pack all the Chocolate flavour and Salted-Caramel flavour muffins?

Do not write  
in this space

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

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





# ExamSutra 考试圣经

## Answer Sheets

SCHOOL : Rosyth Primary School  
SUBJECT : Primary 5 Mathematics  
TERM : CA 2

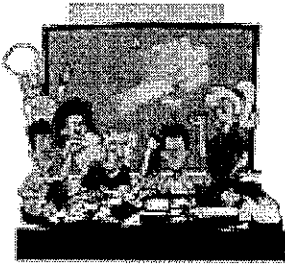
Order

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Paper 1

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

- 16 6060  
17 28%
- 18 23665  
19 1:60  
20 \$112.5  
21 23cm  
22 180  
23 120  
24 28  
25 320  
26  $60\% = 24$   
 $40\% = 16$
- 27  $143 + 11 = 13$   
 $13 \times 4 = 52$
- 28  $12 \frac{1}{2} + 3\frac{3}{4} = 16.67$   
Answer = 16
- 29  $4 \times 2 = 8$   
 $8 + 4 = 12$   
 $7200 \div = 600$   
 $600 \times 8 = 4800g$
- 30  $15 \times 2 = 30$   
 $30 + 10 = 40$   
 $24 + 40 = 50.60$   
 $0.60 \times 2 = \$1.20$



# ExamSutra 考试圣经

## Answer Sheets

### Paper 2

1.  $2/5 \times 74 \times 28 \times 40 = 33152 \text{cm}^3$
2. 3 years
3.  $4/3 \times 1074 = 1432$
4. 7
5.  $2/3 \times 12 = 8$   
 $5 + 8 = 13$   
 $13 - 4 = 9$   
 $9 \times 2 = 18$   
 $12 + 5 = 17$   
 $17/9 \times 18 = 34$
6.  $6 + 6 + 9 = 21$   
 $102 - 21 = 81$   
 $81 \div 3 = 27$   
 $27 + 6 + 9 = 42 \text{kg}$
7.  $3/7 \times 5 = 15/7$   
 $5 - 15/7 = 2 \frac{6}{7}$   
 $3 + 2 \frac{6}{7} \times 400 = 420$
8.  $3+2+3+2 = 10$   
 $70 \div 10 = 7$   
Length = 21  
Breath = 14  
 $7350 \div 21 + 14 = 25$
9.  $100 - 75 = 25\%$   
 $100/25 \times 6 = 24$   
 $24 + 6 + 1 = 31$   
 $434 \div 31 = 14$   
 $14 \times 24 = 336$
10.  $1/8 \times 2 = 0.25$   
 $2 + 7 = 9$   
Total area:  $2 + 7 - 0.25 = 8.75$   
Unshedded area =  $8.75 - 0.25 = 8.5$   
Ratio =  $8.5 : 8.75$   
=  $34 : 35$
11.  $68 \div 2 = 34$   
 $34 - 13 = 21$   
 $5/3 \times 21 = 35$
12.  $8/5 \times 3600 = 5760$   
 $5760 / 400 = 14.4$   
 $3/8 \times 14.4 = 5.4 \text{cm}$

# EXAM PAPER 2012

SCHOOL : Rosyth Primary School  
SUBJECT : Primary 5 Mathematics  
TERM : CA 2

Order

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- 13a  $31 - 6 = 25$   
 $25 / 5 = 5$   
Berry = 5 kg  
Orange = 30kg  
Crate = 1kg
- 13b  $50 - 1 = 49$ kg  
 $49 \div 7 = 7$
- 14  $24 \times 7 = 168$   
 $1 - 2/9 = 7/9$   
 $7/9 \times 2/3 = 14/27$   
14 units = 168  
Original =  $27/14 \times 168 = 324$   
 $2/9 \times 324 = 72$
- 14a 72
- 14b 324
- 15  $5p + 5s = 25$   
 $1p + 1s = 5$   
 $7p + 7s = 35$   
 $13p + 7s = 47$   
 $6p = 12$   
 $1p = 2$   
 $1s = 3$   
 $8 \times 2 + 4 \times 3 = \$30$
- 16 After: 9:7  
Before: 12:7  
 $1875 - 260 = 1615$   
 $12 + 7 = 19$   
 $1615 \div 19 = 85$   
at first A has :  $12 \times 85 = 1020$   
at first B has  $7 \times 85 + 260 = 855$   
Ratio = 1020 : 855  
= 58:57
- 17a  $132 - 108 = 24$  (difference in savings)  
 $24/4 = 6$  weeks
- 17b  $6 \times 17 = 102$  (susie's spending for 6 weeks)  
 $102 + 108 = 210$  (susie's pocket money for 6 weeks)  
 $210 \div 6 = \$35$
- 18  $404 - 150 = 254$   
 $404 - 283 = 121$   
 $2699 - 254 - 121 - 404 = 1920$

## EXAM PAPER 2012

SCHOOL : Rosyth Primary School  
SUBJECT : Primary 5 Mathematics  
TERM : CA 2

Order :

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$$1920 \div 4 = 480$$

a  $480 + 404 = 884$

b Number of Choc =  $884 - 150 = 734$

Number of Salled =  $884 - 404 = 480$

$$734 + 480 = 1214$$

$$1214 \div 15 = 80.933$$

Number of boxes required = 81