

## Rosyth School First Semestral Examination 2010 Primary 5 Mathematics

Namé: i	Register No
Class: Pr 5 -	• •
Date: 12 May 2010	Parent's Signature:
Total Time for Booklets A and B	: 50 min

### PAPER 1 (Booklet A)

### Instructions to Pupils:

- 1. Do not turn over this page until you are told to do so.
- 2. Follow alf instructions carefully.
- 3. Answer all questions.
- 4. Shade your answers in the Optical Answer Sheet (OAS) provided.
- 5. You are not allowed to use a calculator

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

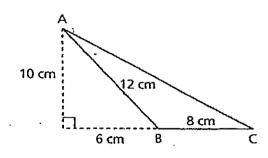
<sup>\*</sup> This booklet consists of 7 pages (excluding this cover page)

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

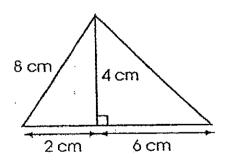
- 1 Which one of the following numbers is greater than 6.070 380?
  - (X) 6 069 000
  - (2) 6 070 281
  - (S) 6 069 381
  - (A) 6.700 380
- 2 Which one of the following fraction is the smallest?
  - (2)  $\frac{1}{2}$
  - (2)  $\frac{5}{12}$
  - $(\beta)$   $\frac{3}{5}$
  - (4)  $\frac{13}{20}$
- 3 Alison bought kg of flour to bake 3 pies. How much flour does she need to bake a pie?
  - $(y) \qquad \frac{2}{9} \, kg$
  - (2)  $\frac{1}{3}$ kg
  - (2)  $\frac{1}{2}$  kg
  - (A) 2 kg

4 Find the height of triangle ABC.



- (1) 8 cm
- (2) 10 cm
- (3) 12 cm
- (A) 14 cm

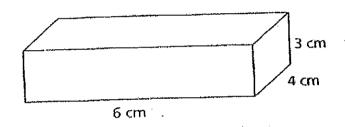
5 Find the area of the triangle below.



2

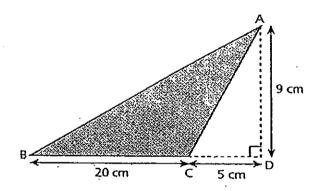
- (1) 4 cm<sup>2</sup>
- (2) 12 cm<sup>2</sup>
- (**3**) 16 cm<sup>2</sup>
- (A) 32 cm<sup>2</sup>

- The ratio of the number of grasers to the number of sharpeners is 5 3. The ratio of the number of sharpeners to the number of gens is 3. What is the ratio of the number of grasers to the total number of stationery in the bookshop?
  - (1/) 1:2
  - (2) 1:3
  - (36) 5:7
  - (4) 5:3
- 7 Find the volume of the cuboid shown below.



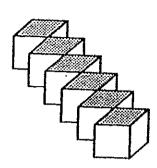
- (1/) 12 cm<sup>3</sup>
- (2) 18 cm<sup>3</sup>
- (3/) 24 cm<sup>3</sup>
- (4) 72 cm<sup>3</sup>
- In a class of 38 pupils, 22 pupils wear glasses. What is the fatio of the number of pupils who wear glasses to the number of pupils who do not wear glasses?
  - (X) 11:8
  - (2) 8:11
  - (3) 11:19
  - (4) 19:11

- 9 Susan and Rajut shared \$36! between themselves. If Susan had \$6 more than Rajut find the ratio of Rajus share to their total share.
  - (1<sup>6</sup>) 5:7
  - (2) 7:5
  - (3) 5:12
  - (A) 7:12
- 10 What is the area of triangle ABC?



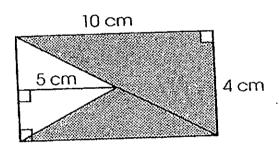
- (1) 22.5 cm<sup>2</sup>
- (2) 90 cm<sup>2</sup>
- (3) 112.5 cm<sup>2</sup>
- (4f) 180 cm<sup>2</sup>

The solid is made up of 3 cm cubes. Find the volume of the solid.



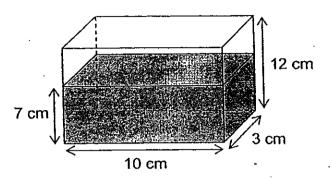
- (2)  $27 \text{ cm}^2 \text{cm}^3$ (3)  $162 \text{ cm}^2 \text{ cm}^3$
- 243 ett<sup>2</sup> cm<sup>3</sup> (4)
- The vatio of the length to the breadth to the height of a cuboid is 5 : 4 : 3. If 12 the length is 3 cm longer than the breadth, find its volume.
  - 36 cm<sup>3</sup> (M)
  - 60 cm<sup>3</sup>
  - 1620 cm<sup>3</sup>
  - 3240 cm<sup>3</sup> SAS

- Eunice cut a birthday cake into 12 pieces. Her brother ate 6 pieces and she ate 10 the remaining pieces. What fraction of the cake was left?
  - $(\beta)$   $\frac{1}{4}$
  - $(2)^{\prime}$   $\frac{1}{3}$
  - (3/)  $\frac{1}{2}$
  - (4)  $\frac{2}{3}$
- 14 Find the shaded area of the figure.



- (1) 10 cm<sup>2</sup>
- (2) 20 cm<sup>2</sup>
- (3) 30 cm<sup>2</sup>
- (4) 40 cm<sup>2</sup>

The diagram below shows a tank filled with water to a depth of 7 cm. How much more water can the tank contain?



(1) 150 cm<sup>3</sup>

(2) 210 cm<sup>3</sup>

(3) 252 cm<sup>3</sup>

(4) 360 cm<sup>3</sup>



# Rosyth School First Semestral Examination 2010 Primary 5 Mathematics

Name:	Register No.
Class: Pr 5	
Date: 12 May 2010	Parent's Signature:
Total Time for Booklets A and B	: 50 min

### PAPER 1 (Booklet B)

### Instructions to Pupils:

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

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

<sup>\*</sup> This booklet consists of 7 pages (including this cover page)

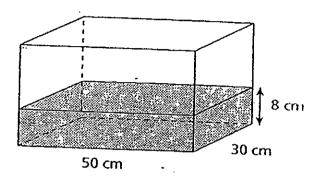
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Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.  (10 marks)		
16	What must be added to 4389 to make 450 000?	·
i		-
:		
•	•	
	Ans:	
17	Find the value of 35 + (26 - 2) = 3 × 2.	
i		
	Ans:	
18	Find the value of $6\frac{2}{3}$ $\frac{3}{4}$ . Leave your answer in the simplest form.	
	Ans:	

19	Find the value of 8. Leave your answer in the simplest form.	
	-	
		Ans:
20		
20	In 42:77=6:3 find the value of	
		v. S
		:
•		
		•
		Ans:
		*· <u> </u>
21	A piece of ribbon ametres long is cut into	
	শ্বনার 5. Find the length of the shortest pic	ece.
	•	
	•	
		Ans: cm
		<u> </u>

2		The ratio of the heights of two trees is 3.5 If the shorter tree is 15m.		
	find the difference between the heig	ht of the two trees.		
		•		
	d .			
		Ans:	m	
3	The length of a rectangle is 15 cm.	Its breadth is 6 cm. Fin	d the fatio of	
	its breadth to its perimeter. Leave	your answer in the simp	lest from.	
	:			
		Ans:		
24	Michael, Dwayne and Siti donated	d a certain sum of mone		
24	Michael, Dwayne and Siti donated	d a certain sum of mone		
24		d a certain sum of mone		
24	5:4:9 respectively. If Siti denate	d a certain sum of mone		
24	5:4:9 respectively. If Siti denate	d a certain sum of mone		
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24	5:4:9 respectively. If Siti denate	d a certain sum of mone		

25 Find the volume of water in the tank shown below. Leave your answer in thres:



Ans:	 litres

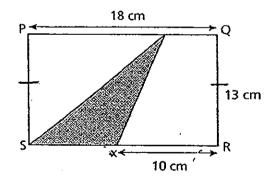
provid	stions <b>26</b> to <b>30</b> carry 2 marks each. Show you ded for each question and write your answer tions which require units, give your answer	ers in the spaces provided. For
quesi	tions which require drifts, give your answer	(10 marks)
26	Daniel has \$2 more than Peter and \$10 r	nore than Sam Together they
20	have \$48! How much does Sam have?	
•		
		Ans: \$
		N .
27	There are 320 packets of rice in a facto	ry. $\frac{1}{5}$ of them are exported to
	Australia and $\frac{1}{8}$ of them are sold. How r	nany packets of rice are left in
	the factory?	
		,
		•
		• • • • • • • • • • • • • • • • • • •
	:	i
	:	:
		•
		:
	•	,
		Ans:

of Times follipops is equal to follipops. If Sammy has 15' follipops more than Time, find the number of follipops they have

Ans:

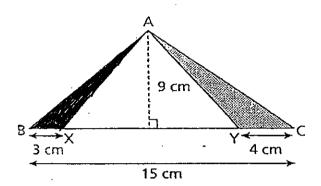
29 Find the shaded area in the figure below.

åltogether.



Ans: \_\_\_\_\_cm²

30 Find the shaded area of triangle ABC.



Ans: \_\_\_\_\_cm<sup>2</sup>

**END OF PAPER** 



### Rosyth School First Semestral Examination Primary 5 Mathematics

Name:	Register No.
Class: Pr 5 -	
Date: 12 May 2010	Parent's Signature:
Time: 1 h 40 min	

### PAPER 2

#### Instructions to Pupils:

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

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	:

<sup>\*</sup> This booklet consists of 13 pages (including this cover page)
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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.

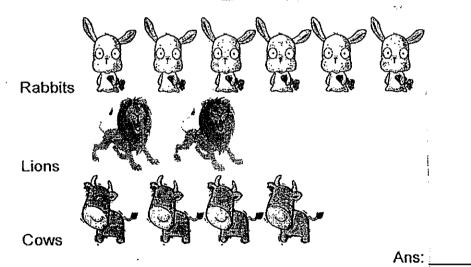
(10 marks)

1 What is the missing number in the box?

$$\frac{4}{6} = \frac{16}{6}$$

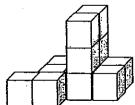
Ans: \_\_\_\_\_

What is the ratio of the number of cows to the number of rabbits to the number of lions in the simplest form?



.

The following solid is made up of the cubes. What is the volume of the solid?



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

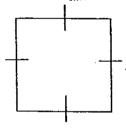
A container completely filled with syrup weighs kg: The mass of the 4 empty container is \$50 g. What is the mass of the container when it is half filled with syrup? The figure (not drawn to scale) is made up of squares and a triangle. 5 The areas of the 2 squares are shown. What is the area of the triangle? ? 16 cm² Ans:

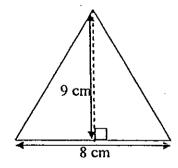
·		of each questi	(5	0 marks)
	of @mar's age to ear. What was th			
į	÷			
:				
		Ans:		[3]
	ngular container i			maximum
	ngular container i of:4 cm cubes th	the con		maximum
		ced into the con		maximum
	of4 cm cubes th	the con		maximum

of the ice-cream sticks are fed. The remaining ice-cream sticks are lifter yellow or green. The yellow ice-cream sticks are three times as many as the green one. How many ice-cream sticks are there altogether if there are \$5.00 yellow ice-cream sticks?

\ns:	!	[3]
	1,444	

9 The area of the square is the same as the area of the triangle. Find the perimeter of the square.





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

10	A rectangular tank measuring 50 cm by 40 cm by 30 cm is filled with water
	up to fits height! How many cups are needed to fill the rectangular tank.
•	completely if the capacity of each cup is 250 cm <sup>3</sup> ?
	; :
	Ans:[4]
11	of the total number of cakes in Box A is equal to $\frac{1}{4}$ of the total number of
	cakes in Box B. The number of cakes in Box C is only $\frac{4}{2}$ the number of
	cakes in Box B. After half the number of cakes in Box B are removed and put into Box C; there are 32 cakes in Box C. How many cakes are in Box A?
:	
	Ans:[3]

12 All Bala and Carl shared some marbles in the ratio 8 3 7 After both All and Carl had given a total of 396 marbles to Bala, all the three boys would have the same number of martiles. How many marbles did each boy have \*at first? Ans: Ali: Bala:

Carl:

\_} [4m]

Ņ	some	clothes and 5 of the remaining	money on	a∜bag.' T	he pair of shoe	:S
	cost	655				
	(a)	How much did Sindy have at firs	12		,	
	(b)	How much did she spend on her	bag?			
				•	r .	
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					:	
		:			:	
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					,	
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	•		-			
					:	
					:	
			Ans:			لـــا

14 In a school hall, a certain number of students can be arranged such that there are exactly 21 students per row. If the same number of students is arranged in lows of 16 students each; there will be more rows and 8 students left overt How many students are there altogether?

[4]

	There are 8 840 households: How r			•		
			lops are ned	cucu so ma	. Ciscie wiii	DOT I'E
	laptops for every 4	nousenolds?				
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						. •
٠				-	4	
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		•			•	
				Ans:		
	•					

Mr P	hua Chu Kang bought Stimes as many packets of bryani rice as nasi-
	as much as a packet of masilemak. He paid \$6' for a packet of bryant
rices	
(a)	How many packets of maxilemak did he buy?
(b)	How many packets of by ani rice did he buy?
	Antarino per la governa de la companya del companya del companya de la companya d
	Ans: (a)
	(b)

17	Mrs Tan bought some stationery. 1 of the stationery were pens which cos
	90¢ each, $\frac{1}{3}$ of them were pencils which cost 50¢ each and the rest were
*	erasers which cost 30¢ each. She spent \$25.90 on the pens and pencils.
	(a) How much did she spend on the erasers?

- How much did she spend on the stationery? (b)

Ans: (a)	[3]
; } • •	
(b)	[2]
	'

- There were 420 people in the hall before the start of the concert. The fatio of the number of males to the number of males at that time was 7.13. At the end of the concert, the ratio of the number of males to the number of females became 3.5. The number of males before the start of the concert and at the end of the concert remained the same.
  - (a) What was the number of temales before the state of the concert?
  - (b) What was the number of people at the end of the concert?

: : !	l	. *
Ans: (a)		[2]
· . :		
(b)		[3]





### ANSWER SHEET

### **EXAM PAPER 2010**

SCHOOL: ROSYTH PRIMARY

**SUBJECT: PRIMARY 5 MATHEMATICS** 

TERM : SA1

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

16)445611

17)51

18)111/12

19)1/12

20)11

21)30cm

22)10m

23)1:7

24)\$45

25)12 litres

26)\$10

27)216 packets of rice

28)165 lollipops altogether

29)52cm2

30)31.5cm<sub>2</sub>

### Paper 2

1)24	2)2:3:1
3)12cm3	4)1000 - 350 =650 650÷2=325 350+325=675g
5)12 - 4 = 8 ½ x 4 x 8 = 16cm <sub>2</sub>	6)9:13
7)36÷4=9	8)Yellow→45
22÷4≈5	Green→45÷3=15
18÷4≈4	45+15=60
9x5x4=180	. 5u→60
180 cubes can be placed into the	1u→60÷5=12
container.	11u→11x12=132
	There are 132 ice cream sticks altogether sticks.

9) ½ x 9 x 9 = 36 36 = 6x6 6 x 4 = 24 The perimeter of the square is 24cm.	10)2/5 x 50 x 40 x 30 = 24000 24000÷250 = 96 cups.
11)8u→32 1u→32÷8=4 5u→4x5=20 There are 20 cakes in Box A.	12)3u→396(Bala at first) 1u→396÷3=132 (Carl gave to Bala) 8u→132x8=1056 (Ali at first) 7u→132x7=924 (Carl at first)
13)a)65 x 8 = 520 Cindy has \$520 at first. b)520÷5=104 (clothes) 104 +65=169 (clothes and shoes) 520 - 169 =351 351÷3 =117 (bag) Cindy spent \$117 on her bag.  15)Currently	16)a)He bought 5 packets of nasi lemak.
17)a)She spent \$2.10 on the erasers. b)She spent \$28 on the stationery	18)a)20u→420 1u→420÷20=21 7u→21x7=147 (males) 13u→21x3=273 (female) There were 273 females before the start of the concert. b)3u→147 1u→147÷3=49 8u→49x8=392 There were 392 people at the end of the concert.