

## Rosyth School Second Semestral Assessment 2014 Primary 5 Mathematics

Name:	Register No.
Class: Pr 5	
Date: 28 October 2014	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	

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

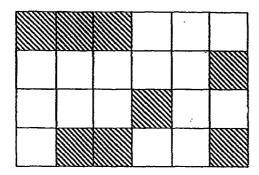
This paper is not to be reproduced in part or whole without the permission of the Principal.

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.

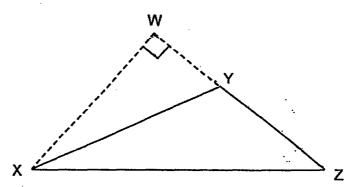
(20 marks)

- 1. Which of the following numbers is five million, eight hundred and five thousand, five hundred and eight?
  - (1) 5 085 580
  - (2) 5 805 508
  - (3) 5 850 508
  - (4) 5 850 580
- 2. Mr Chin's savings is \$9 900 when rounded off to the nearest \$10. Which one of the following could be his actual savings?
  - (1) \$9 889
  - (2) \$9 895
  - (3) \$9 905
  - (4) \$9 909
- 3. Ahmad has 15 marbles. Bala has 18 more marbles than Ahmad. Chester has 12 more marbles than Bala. Find the ratio of Chester's marbles to Bala's marbles to Ahmad's marbles.
  - (1) 4:6:5
  - (2) 5:6:4
  - (3) 5:11:15
  - (4) 15:11:5

4. What fraction of the figure below is shaded?



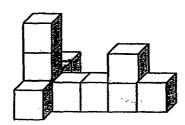
- (1)  $\frac{1}{3}$
- (2)  $\frac{3}{8}$
- (3)  $\frac{5}{12}$
- (4)  $\frac{5}{16}$
- 5. The figure below is not drawn to scale. What is the base of triangle XYZ if its height is XW?



- (1) WY
- (2) YZ
- (3) WZ
- (4) XZ

6.	Five	thousands. 4 hundred	ds and 13 tenths is
	(1)	5 413	t jui
	(2)	5 530	
	(3)	5 401.3	
	(4)	5 400.13	
7.	Expr	ess 0.4 as a percenta	age.
	(1)	0.4%	
	(2)	4%	
	(3)	40%	
	(4)	400%	
8.		average number of so ets, what would the no	weets of 4 boys is 88. If one of the boys buys 12 more ew average be?
	(1)	76	
	(2)	85	
	(3)	91	
	(4)	100	
9.	6		are boys and the rest are girls. There are 270 boys.
	How	many more boys tha	in girls are there in the hall?
	(1)	180	
	(2)	216	
	(3)	225	
	(4)	324	

10. Find the number of unit cubes to build the solid below.



- (1) 8
- (2) 9
- (3) 10
- (4) 11

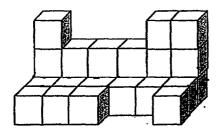
11. 4 adults and 24 children visited the zoo. They paid a total of \$288 for the tickets. The ticket for an adult cost thrice as much as the ticket for a child. How much was the ticket for an adult?

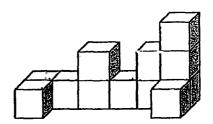
- (1) \$8
- (2) \$9
- (3) \$24
- (4) \$27

12. Which of the following is <u>not</u> equal to  $\frac{5}{8}$ ?

- (1)  $\frac{1}{3} + \frac{4}{5}$
- (2)  $\frac{7}{8} \frac{1}{4}$
- (3)  $\frac{5}{6} \times \frac{3}{4}$
- (4) 5 ÷ 8

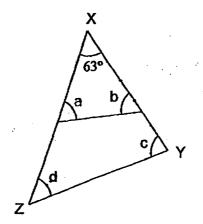
- 13. Bryan bought 98 balloons. The ratio of the number of red balloons to the number of blue balloons to the number of green balloons was 7:3:4. How many blue balloons did Bryan buy?
  - (1) 7
  - (2) 21
  - (3) 28
  - (4) 49
- 14. How many unit cubes were removed from the solid on the left to obtain the solid on the right?





- (1) 8
- (2) 9
- (3) 13
- (4) 14

15. The figure below is not drawn to scale. Given that XYZ is a triangle, find the sum of  $\angle a + \angle b + \angle c + \angle d$ .



- (1) 117°
- (2) 234°
- (3) 297°
- (4) 468°

(Go on to Booklet B)



## Rosyth School Second Semestral Assessment 2014 Primary 5 Mathematics

Name:	Register No
Class: Pr 5	·
Date: 28 October 2014	Parent's Signature:
Total Time for Booklets A a	nd 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	

<sup>\*</sup> This booklet consists of 7 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 requ			

(10 marks)

16.	Find the missing	number in the	following number	pattern
-----	------------------	---------------	------------------	---------

17 850, 17 200, 16 550,

\_\_\_, 15 250

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

17. Mr Syed had \$1 200 in his bank account at the beginning of the year. If he receives an interest of 2% per year, how much money will he have in his bank account at the end of one year?

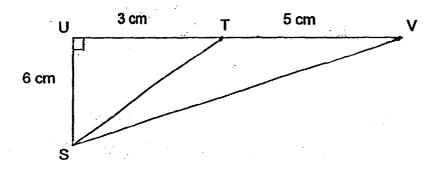
Ans: \$\_\_\_\_

--- 18. What is the missing number in the box?

$$3\frac{7}{9} = \frac{10}{9} + \frac{2}{3}$$

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

19. The figure below is not drawn to scale. SUV is a right-angled triangle. Find the area of triangle TVS.



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

20. Express  $1\frac{3}{7}$  as a decimal correct to 1 decimal place.

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

21. Express 40¢ as a percentage of \$1.60.

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

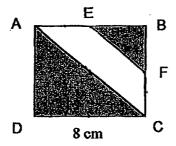
22. Find the average of the first 5 multiples of 4.

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

23.	A basket contained a total of 50 apples and pears. The ratio of the number of
	apples to the number of pears in the basket was 2: 3. When some pears were
	added to the basket, the ratio of the number of apples to the number of pears
	becomes 1 : 2. How many pears are added to the basket?

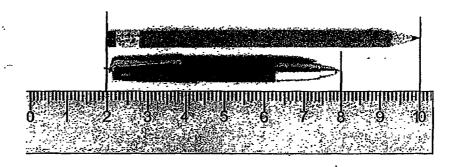
Ans:			

24. ABCD is a square of side 8 cm. E and F are the midpoints. Find the area of the shaded triangles.



Ans:	 cm	2

25. Find the ratio of the length of the pencil to the length of the pen. Express your answer in simplest form.



Ann.	•	
Ans:		

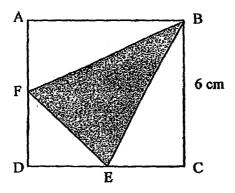
Questions 26 to 30 carry 2 marks each.	Show your workings clearly in the space
provided for each question and write you	ur answers in the spaces provided. For
questions which require units, give your	answers in the units stated.

(10 marks)

26.	60% of the pupils in a primary school are boys. The ratio of the number of boys	
	who like Mathematics to the number of boys who do not is 2:3. The ratio of	
	the number of girls who like Mathematics to the number of girls who do not is	
	1:4. What percentage of the pupils like Mathematics?	

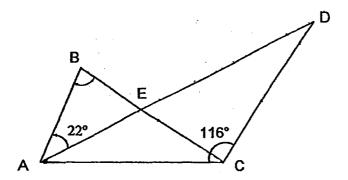
Ans:	9	/

27. ABCD is a square of side 6 cm. E and F are the midpoints of CD and AD respectively. Find the area of the shaded part.



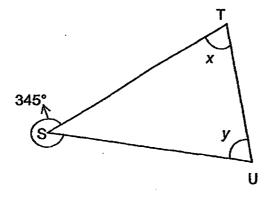
	2
Ans:	cm <sup>2</sup>
	 VIII.

28. The figure below is not drawn to scale. ABC and ADC are triangles with AC = BC = DC.  $\angle ACD = 116^{\circ}$  and  $\angle BAE = 22^{\circ}$ . Find  $\angle ABC$ .



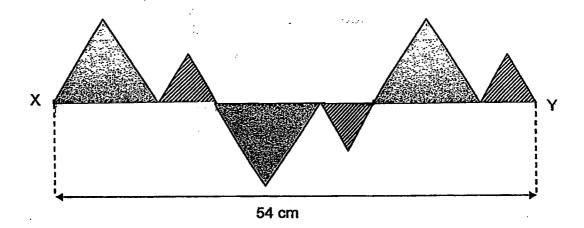
Ans:		0
AIIS.		

29. The figure below is not drawn to scale. STU is a triangle. Find the sum of  $\angle x + \angle y$ .



Ans:	•

30. The shaded figure below is formed with 3 big identical and 3 small identical equilateral triangles. The length of the straight line XY is 54 cm. What is the perimeter of the shaded figure?



Ans:	cm
1110.	 

End of Paper 1



# Rosyth School Second Semestral Assessment 2014 Primary 5 Mathematics

Name:	Register No
Class: Pr 5	<del></del>
Date: 28 October 2014	Parent's Signature:
Time: 1 h 40 min	
The second secon	DADED 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	·

<sup>\*</sup> This booklet consists of 16 pages (including this cover page)

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

Do not write in this space

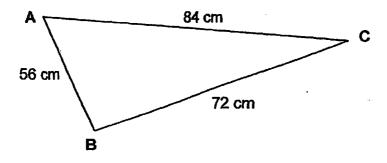
Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

1. 50 primary schools attended the NE Show. Each school sent 360 pupils and 18 teachers. What was the total number of pupils and teachers who attended the NE Show?

Ans:	
------	--

2. The figure below is not drawn to scale. What is the ratio of the length of AB to the length of BC to the length of AC? (Give your answer in the simplest form.)



Ans:	

3.	The ratio of John's age to Zuraini's age is 9:6. Last year, their average age was 14 years old. How old is Zuraini now?	Do not w in this sp
· · ·		
	Ans:	
4.	A rectangular container is $\frac{3}{4}$ full of water. Its length and width are 9 cm and 7 cm respectively. If the capacity of the container is 0.42 litres, find the height	

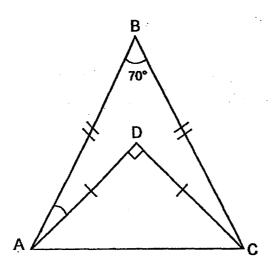
cm

(Go on to the next page)

of water in the container.

5. The diagram below is not drawn to scale. ABC and ADC are isosceles triangles. Find  $\angle$  BAD.

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.

(50 marks)

Do not v

in this s

6. 17 sweaters and 8 pairs of shoes cost \$1 108. A pair of shoes costs \$79. How much does one sweater cost?

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

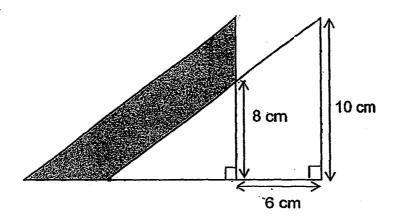
7. Terry gave  $\frac{1}{3}$  of his salary to his parents and  $\frac{1}{4}$  of the remainder to his wife. His parents received \$450. How much did his wife receive?

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

(Go on to the next page)

8. The figure below shows two identical right-angled triangles overlapping each other. Find the area of the shaded part.

Do not write in this space



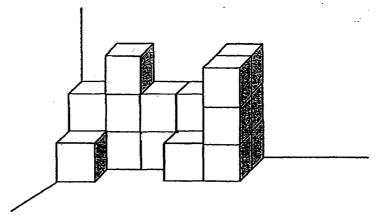
Ans: \_\_\_\_\_[3m]

9. Mr Asim's income changes every month. In June, his income increased by 20% as compared to his income in May. In July, his income decreased by 40% as compared to his income in June. His income in June was \$1 140 more than in May. What was his income in July?

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

10. Study the solid figure below.

Do not write in this spac



The solid figure is made up of 4-cm cubes. Find the volume of the figure.

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

11. Some girls and 15 boys donated an average of \$350 to charity. The boys Do not v in this s donated an average of \$240. The ratio of boys to girls was 3:5. What is the difference between the amounts of money donated by the boys and the girls?

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

(Go on to the next page)

12. Rosie, Siti and Tania baked some cupcakes. The ratio of the number of cupcakes Rosie baked to the number of cupcakes Tania baked was 6:5. Siti baked 37 cupcakes. Siti baked 7 more cupcakes than Tania How many cupcakes did the three girls bake altogether?

Do not wri

Ans:		[3m
MI15.	·	[JIII

13. The ratio of the number of skirts and blouses at a shop was 5 : 7. After 60 blouses were sold, the ratio of the number of skirts to the number of the remaining blouses was 4 : 5.

Do not V in this sp

- a) How many skirts were there at first?
- b) How many blouses were there in the end?

Ans: a)	)		_[3m]	
b)			_[1m]	

14. There is a total of 75 cars and motorcycles in a warehouse. Each car has 4 wheels and each motorcycle has 2 wheels. The warehouse manager makes a count and finds that there are 212 wheels altogether. How many motorcycles are there in the warehouse?

12

Do not write in this space

ns: [4m]

15. Every day, Krittika receives \$1.80 for pocket money while Joan receives 50¢ more. However, Krittika saves 60¢ daily which is twice what Joan saves in each day. Joan saved \$8.40 and spent the rest.

Do not W in this sp

- (a) How many days did Joan take to save this amount?
- (b) How much did Joan spend in this period of time?

Ans: a)	[2m]
b)	[3m]
	(Go on to the next page)

16. There were 6 more men than women on a bus when it left Bus Stop A. When the bus arrived at Bus Stop B, 7 men alighted and 7 women boarded the bus.

After this, there were thrice as many women as men on the bus.

Do not write in this space

- (a) How many women were there on the bus after the 7 women boarded at Bus Stop B?
- (b) How many men were there on the bus at first when it left Bus Stop A?

Ans: a)	[3m]
b)	[2m]
14	(Go on to the next page)

17.		Germaine and Jia Ling have a total of 375 buttons. 56% of the number of Germaine's buttons is equal to 4% of the number of Jia Ling's buttons.  (a) Express the number of Germaine's buttons as a fraction of the number			
	(a)				
(b)	of Jia Ling's buttons.				
	(b)	How many buttons does Jia Ling have?	; ;		
		•			
	•				
•					
	÷				
		,			
		•			
		·*			
		Ans: a)	[2m]		

\_[3m]

18. There were twice as many boys as girls in a class.  $\frac{2}{3}$  of the boys wear spectacles and  $\frac{2}{5}$  of the girls wear spectacles. If 42 more boys than girls wear spectacles, what was the total number of boys and girls in the class?

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

Do not wril

**End of Paper** 

Have you checked your work thoroughly?

#### Rosyth School Second Semestral Assessment 2014 Primary 5 Mathematics

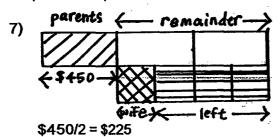
- 1)2
- 2)2
- 3) 4
- 4) 1
- 5) 2
- 6)3
- 7) 3
- 8) 3
- 9) 2
- 10) 4
- 11) 3
- 12) 1
- 13) 2
- 14) 3
- 15) 2
- 16) 16 550-650 = 15 900
- 17) \$1224
- 18) 8
- 19) 15 cm<sup>2</sup>
- 20) 1.4
- 21) 25%
- 22) 12
- 23) 10 pears
- 24) 40 cm<sup>2</sup>
- 25) 4:3
- 26) 32%
- 27) 13.5 cm<sup>2</sup>
- 28) 54°
- 29) 165 °
- 30) 54\*3 = 162 cm

#### Paper 2

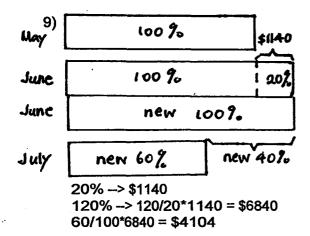
- 1) 18 900 pupils
- 2) 14:18:21

4) 
$$3/4*420 = 315 \text{ cm}^3$$
  
  $315/(9*7) = 5 \text{ cm}$ 

6) \$79\*8 = \$632 \$1108-\$632 = \$476 \$476/17 = \$28



8) 6\*8 = 48 cm<sup>2</sup> 1/2\*6\*2 = 6 cm<sup>2</sup> 48+6 = 54 cm<sup>2</sup>



- 10) Volume of 1 cube = 4\*4\*4 = 64 cm<sup>3</sup> Volume of figure = 64\*17 = 1088 cm<sup>3</sup>
- 11) Boys : Girls Total 3 : 5 15 : 25 40

15\*\$240 = \$3600 40\*\$350 = \$14000

\$14000-\$3600 = \$10400

\$10400-\$3600 = \$6800

12) Number of cupcakes Tania baked = 37-7 =30 5 units --> 30 cupcakes 11 units --> 11/5\*30 = 66 cupcakes 66+37 = 103 cupcakes

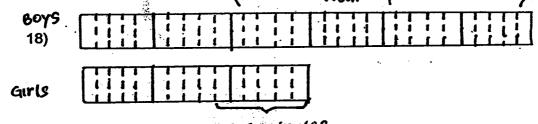
13) Skirts: Blouses 5:7 At first, Now, 4:5 Skirts remained unchanged, 20:28 At first, 20:25 Now, 3 units --> 60 a) 20 units -> 20/3\*60 = 400 skirts at first 25 units -> 25/3\*60 = 500 blouses in the end 14) Assume all are cows, 75\*4 = 300300-212 = 88 4-2 = 288/2 = 44 motorcycles 15a) \$0.60/2 = \$0.308.40/0.30 = 28 days\$1.80+\$0.50 = \$2.30 \$2.30-\$0.30 = \$2 \$2\*28 = \$56 (unit 16) Men 6 Women 2 units I unit. a) 1+6+1=88/2 = 44\*3 = 12 women b) 4+7 = 11 men at first 17) 56% 44% Germain & 96% Jia Ling

a) 56/4 = 14

14\*96 = 1344%

56%+1344% = 1400% 100/1400 = 1/14 b) 1500% --> 375

1400% --> 1400/1500\*375 = 350 buttons



34u + 15u = 45u 20u - 6u = 14u 14u -> 42

45u -> 45/14\*42 = 135 pupils