

Rosyth School Second Semestral Assessment 2012 Primary 5 Mathémátics

Name:	Re	egister No.
Class: Pr 5		en e
Date: 29 October 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)	20	

* This booklet consists of 6 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.

anal experience alle all all all contractions and the second second property to provide the provident of the second s S . . .

Which of the following is eight million, thirty-eight thousand, three hundred and eighteen?

(1)8 038 318

. . . .

1.

3.

.

(2)8 083 318

(3) 8 380 318

8 383 018 (4)

2. The value of 50 tens, 5 tenths and 5 thousandths is

- 50.055 (1)
- (2)50.505
- (3) 500.055
- (4) 500.505

ł

 $\frac{2}{5} \div 3$ has the same value as _ $\frac{2}{5} \times 3$ (1) $\frac{5}{2} \times 3$ (2) $\frac{2}{5} \times \frac{1}{3}$ (3) $\frac{5}{2} \propto \frac{1}{3}$ (4)

In the triangle OPQ below, name the base that corresponds to the height ON.

(The figure is not drawn to scale.) $O = \frac{M}{Q} = \frac{P}{N}$ (1)

(1) PQ

(2) PN

(3) OP

(4) OQ

5.

4

After turning 45° clockwise, Wei Qiang is facing north now. Which direction was he facing at first?

- (1) West
- (2) East
- (3) North-East
- (4) North-West

6.

The figure below is not drawn to scale. BCD is a straight line. Find $\angle ACD$.

- (1) 73°
- (2) 107°
- (3) 119°
- (4) 134°



N

- $\frac{7}{10}$ of a number is 210. What is $\frac{3}{4}$ of the number?
- (1) 30
 - (2) 75
- (3) 225
- (4) 300
- The figure below is not drawn to scale. $\angle b$ is 3 times of $\angle a$ and $\angle c$ is twice of $\angle a$. Find $\angle a$.
 - (1) 30° (2) 60° (3) 90°
 - (4) 150°
- 9.

7.

8.

- The ratio of the number of red apples to the number of green apples in a basket was 2 : 5. There were 63 red and green apples altogether. How many green apples were there in the basket?
 - (1) 9
 - (2) 18
 - (3) 35
 - (4) 45

The average mass of Box A, Box B and Box C is 35 kg. 10. The average mass of Box A and Box C is 43 kg. What is the mass of Box B? (1) 8 kg (2) 19 kg (A) 3 27 kg (3) 4 62 kg The figures below are made up of 1-cm cubes 11. Figure A Figure B How many 1-cm cubes must be added to Figure A to make Figure B? (1) 15 (2)17 ·· (3) 19 (4) 21 There are 49 pupils in a school library. $\frac{5}{7}$ of the pupils are girls. How many 12. more girls than boys are there? (1) 14 (2)21 (3)28 (4) 35

4

Reliable Car Rental charges the following rates for the rental of a car.

```
Monday – Friday :$ 45 per day
Saturday – Sunday:$ 60 per day
```

Mr Raju rented a car from Tuesday to Sunday. How much must he pay for the rental of the car?

(1) \$ 120
(2) \$ 180
(3) \$ 300
(4) \$ 330

14.

13.

20% of the 400 fruits in a crate are apples. 100 more apples are added to the crate. What percentage of the fruits in the crate are apples?

- (1) 16%
- (2) 25%
- (3) 30%
- (4) 36%

(Go on to the next page)

	cent co	ins. The total v	alue of all the c	oins is \$12.	How many	twenty-cent	Þ	
	coins d	loes she have?				•. • • • •		
	(1)	24					•	
	(2)	30						
• • • • • •	(3)	48	• • • • •			·		. •
· · · ·	(4)	60						
		• •			100	on to Rooklet	B)	

(Go on to Booklet B)

۰.



Rosyth School Second Semestral Assessment 2012 Primary 5 Mathematics

Name: _		Register No.
		· - · · · · · · · · · · · · · · · · · ·

Class: Pr 5 -____

Date: 29 October 2012 Parent's Signature:

Total Time for Booklets A and B : 50 minutes

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 7 pages (excluding this cover page)

Quest For a	tions 16 to 25 carry 1 mark each. Write your answers in the spaces provided.	Do not wr in this spa
	(10 marks)	s a chuir an an an an an Arsan an 14 a g
16.	Find the missing number in the following number pattern:	
· · · ·	58 860, 60 060,, 62 460, 63 660	
		•
	Answer:	
		• • • • • · · · · · · · · · · · · · · ·
17.	What is the missing number in the box?	
	$\frac{3}{5} = \frac{3+6}{5+?}$	м. Т
	en e	
•	Answer:	· · · ·
18.	Joshua has 80 stamps. He has 4 times as many stamps as Shawn. How many stamps do they have altogether?	
	Answer:	
	(Go on to the next page)	

۰.

.

.

What is the ratio of the number of apples to the total number of fruits? Express your answer in the simplest form.

19.

Answer: 20. Joel jogs an average distance of 3 km every day. How far does he jog in 3 weeks? km Answer: Amelia has \$81. Mei Ting has \$18 less than Amelia. Find the ratio of Amelia's

21. money to Mei Ting's money. Express your answer in its simplest form.

Answer:

(Go on to the next page)

22.		ular tank measurin	-		itains 12 litres of	Do not writ in this space	
• • • •	water. Fi	nd the height of wa	ater in the tank.	ang internet and the growing and an angular an angular angular	n an ann an an ann an an ann an an an an	·····	
• . • •			al server a statu		at a g		
		ч. - ч					
. *		• • •	t ave th	Answer:	cm		
			ч. Т				~
23,	The area c	of a triangle is 27 c	cm ² . If the height	is 3 cm, what is	the base of the		
	triangle?				-	•	
	н — н	а 1					
		an a	na la serie de la composición de la com Esta de la composición				· · ·
	1 - A A	· · · · ·	"	· .			
				Answer:	cm		
				·.			
-24.	Mei Ling ha	as many rectangul	ar blocks each m	easuring 5 cm by	y 4 cm by 3 cm.		
•		maximum numbe	r of such blocks t	that can be put in	to a square box		
	of edge 20	cm?					
						3	
•			· .	Answer:		-	
,	<u> </u>	• ••	3			-	
,				(Go on I	to the next page)	ļ	

.

:

·· •

25. A set of 5 stickers cost \$3.50. Zarina bought 45 stickers. How much did she pay for the stickers? Answer: \$ 4

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)

15

B

Answer:

F



108

D





Answer: _____cm²

5



30. In an art class, the ratio of the number of boys to the number of girls was $3 \cdot 4$. After 12 boys left the art class, there were $\frac{5}{12}$ as many boys as girls.

Answer.

How many boys were there in the art class at first?

----- End of Paper 1 -----



Rosyth School Second Semestral Assessment 2012 Primary 5 Mathematics

Name:	 Register N	lo
Class: Pr 5		

Date: 29 October 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)

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. Osman bought some cakes at an average price of \$5 each. He bought another cake which cost \$17 and the average price became \$7. How many cakes did he buy altogether?

Joan, Sasha and Yati shared a packet of sweets in the ratio of 2 : 3 : 1. Yati gave all her sweets equally to Joan and Sasha. What is the ratio of the number of sweets Joan has to the number of sweets Sasha has now?

2.

Ans:

Ans: _____

(Go on to the next page)

... A group of pupils were given white and grey 'Smiley face' badges. They are 3. Do not writ arranged in the pattern shown below. If there are 74 badges, what is the in this space colour of the last badge? Ans: The triangle below is not drawn to scale. AB = 12 cm, BC = 15 cm and 4. AC = 9 cm. Find the length of AD. А 12 cm 9 cm В D 15 cm С Ans: cm 2 (Go on to the next page)

A rectangular piece of paper measuring 12 cm by 10 cm is folded at a corner forming a shaded isosceles triangle shown in the figure below. Express the unshaded area after the paper was folded as a fraction of the area of the rectangular piece of paper. (The figure is not drawn to scale.)



5.

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. la sense i mult i ny tanàna mandritra dia mandritra dia mandritra dia mandritra dia mandritra dia mandritra dia Ny fisiana mandritra dia kaominina dia kaominina dia kaominina dia kaominina dia kaominina dia kaominina dia kao

(50 marks)

[3m]

(Go on to the next page)

Melvin had an equal number of goldfish and guppies in his aquarium. After 6. 28 goldfish and 196 guppies had been sold, the number of goldfish was five times that of the number of guppies. How many guppies were there at first?

Ans:

Hamid had $\frac{5}{7}$ as much money as his sister. After each of them had spent 7. \$154 on some game cartridges, Hamid had $\frac{7}{12}$ as much money as his sister. How much did his sister have at first? [3m] Ans: (Go on to the next page) 5



(b) Based on question 8a, construct and label triangle ACD such that AD = 8 cm. [2m]

Josh and Zach shared \$1° 200. When their mother gave each of them \$129, Zach had 25% more money than Josh. How much more money did Zach have than Josh now?

7

9.

[3m]

10.	•	l, a certain	number of	desks can b	e arranged	in exactly 15	Do not writ
ین میرونی میرونی میرونی مراجع میرونی میرونی مراجع میرونی میرونی مراجع میرونی میرونی	desks per row. per row, there v are there altoge	vill be 4 mo	same num Dre rows and	oer of desks 1 9 desks le	s is arrange ft over. Hov	d in 12 desks vmany desks	in this space
e e e e e e e e e e e e e e e e e e e e	n an	· . 7 · · · · · · ·	n An an an	• .			
		· · · ·				· .	
e e e e e e e e e e e e e e e e e e e				·			
-							
	1	· · · · · ·	• 12 • 1 4• • • •				
	· .						
• •	, ^{, , ,} , , , , , , , , , , , , , , ,						
•							
		•.					
			A	ns:		[3m]	
			8			le next page)	

•

A rectangular tank measuring 30 cm by 12 cm by 16 cm contained some water. A cubical container with side measuring 12 cm is completely filled with water. All of the water from the cubical container is poured into the rectangular tank until it is $\frac{2}{3}$ filled. What is the amount of water in the rectangular tank at first?

11:

[3m	Ans:	:	
(Go on to the next page			9

 \mathbf{n}

				•			
		La companya di secono	an a	 			. · · ·
12.		15% of her salary o reased by 20% this		•		Do not w in this sp	mī · · ·
a gala an airte an an Anna Anna Anna Anna Anna Anna An	1	iat was her new sa				n e san na san a san a	, , , , , , , , , , , , , , , , , , ,
		an a	· · · · · ·	на страница 1997 г. – Страница 1997 г. – Страница			
		• •					
	•	an An an an An					
		· · ·					
· • ·			• • • • • • • • • • • • • • • • • • •				
		n an	e se anna an a	• • • •			
· · · · · ·					•		
·							
			·.				
	·						
			Ans:		[3m]		
			10	(Go on to	the next page)	I	

·

13. 32% of Jane's sum of mor	ey is equal	I to $\frac{3}{4}$ of Om	ar's sur	n of mc	ney.	f they		
have a total sum of \$642,					na tr <u>a</u> tica at 	agastas and s and s	••• •	, and the second se
	· .	· · · · .			· . -		-	•
••• • • • •						· .		·
· · · · · · · · · · · · · · · · · · ·	•	· ·		• .				
			· .					
		· · <u>·</u>		• . •		· · · · · · · · · · · · · · · · · · ·		
		Ăns:				[4m]		
	11		(Ġc	o on to i	he ne:	xt page)	1	

.

14.	At a carnival, each child is given 4 packets of chocolate. Each adult	Do not w n this sp
•	receives 2 packets of chocolate. $\frac{3}{8}$ of the people at the carnival are adults.	, • ,F
n in the second seco	Given that only 4 290 packets of chocolate are given away, how many	e en la participada en t
ار ایک ۲۰۰ کار ا	children are there altogether?	. •
•••		
· · · ·		
ete di secondo e la constante de la constante d		
		· .
	Ans: [4m]	
	Ans:[4m]	

15. Tom, Jaya and Muthu had some amount of grapes each. If Tom gave Jaya 864 g of grapes, Tom and Jaya will have an equal amount of grapes. If Jaya gave 864 g of grapes to Tom, he would have $\frac{1}{4}$ of what Tom had. Muthu's amount of grapes is the total amount of grapes of the other two boys. How many kilogrammes of grapes did they have altogether?

> Ans:_____[4m] 13 (Go on to the next page)

> > us

A wooden box containing 18 flower pots weighed 30 kg. Later Uncle Mak added 2 more vases and 7 flower pots into the box and the mass of the wooden box with its contents became 49.2 kg. The mass of each vase was four times as heavy as the mass of each flower pot.

(a) What is the mass of the wooden box?

16.

(b) Uncle Mak could only lift a maximum mass of 42 kg. What was the least number of flower pots that he should remove from the box so that he was able to lift the box?



(Go on to the next page)

The figure below shows 3 different triangles, A, B and C. $\frac{3}{10}$ of A and

C

Á

17.

40% of C is shaded. The shaded area of A is the same as the shaded area of C. What fraction of the figure is unshaded if 80% of B is shaded? (Leave your answer in its simplest form.)

Ans: _____[5m]

ABC RESTAURANT For every 10 dining vouchers purchased, a 50% discount will be given to the 10th voucher.

18

- a) Mrs Teo wants to purchase 24 dining youchers. If each dining voucher cost \$35, how much does she have to pay?
- b) Mr Lim bought \$542.50 worth of vouchers. How many vouchers did he purchase?

Ans: <u>(</u> a)		[3m]
(b)	·	[2m]

Do not writ

in this space

End of Paper

Have you checked your work thoroughly?

LABRI FAREK ZULZ

SCHOOL : ROSYTH SUBJECT : PRIMARY 5 MATHEMATICS

TERM : SA2

	· · ·	6	<u> </u>		
Q1 Q2 Q3 Q 1 4 3 1		Q7 Q8 Q9 3 1 4	010 011 01 2 3 2		· · · · · · · · · · · · · · · · · · ·
16)61260	17)10	18)100	19)3 1 8	20)63km	· . ,
21)9.:7	22)30 × 2 12000	0 = 600 ÷600= 20cm	23)27 x 2 54÷3		а. — а. — як. На станција
$24)20 \div 5 = 4$ $20 \div 4 = 5$ $20 \div 3 = 6$ $6 \times 5 \times 4 = 5$	120		2		
25)45÷5 = 9 9 x 3,5 = \$3	1.5		5	· · · · · · · ·	
26)180° - 123	* = 57*		* * * - *	e X. r Bink	*
$27)12 \times 12 = 1$ $\frac{1}{2} \times 12 \times 21$ 126 + 144 =	i = 126	• •	-)+ 		
28)381		×	-	· 1	
29)200%		•	, , , , , , , , , , , , , , , , , , ,	7 2	.* -

.

30)27 boys

1)17-7=10 $10 \div 2 = 5$ 5 + 1 = 6 cakes 2)J : S : Y 2:3:1 4:6:2 5:7 The ratio is 5:7 3)18 x 4 = 72 72 + 2 = 74The colour is grey 4)½×9×12 = 54 $\frac{15 \times 15 \times AD}{54} = 54$ 54 ÷ ½ = 7.2cm 5)Area of Rec -> 12 x 10 = 120 Area a of tri \rightarrow $\frac{1}{2} \times 4 \times 4 = 8$ 2 tri→8 x 2 = 16 Unshaded->120-16 = 104 104/120 = 13/15 The fraction is 13/15 6)1u→(196 - 28) +4 = 42 Guppy->42 + 196 = 238 There were 238 guppies at first 7)25 - 14 = 11 $10 \rightarrow 154 \div 11 = 14$ S→14 x 35 = \$490 His sister had \$490 at first 8)a)∠ACD→360' -156' -94' = 110' ∠ADC→(180° - 110°) ÷2 = 35° 4CBA→(180° -94°) +2 = 43* ∠DAB→43" + 35" = 78" b) 110

Paper 2

9)5 + 4 = 9 9u \rightarrow 1458 1u \rightarrow 1458 \div 9 = 162 $Z \rightarrow$ 162 x 5 = 810 $J \rightarrow$ 162 x 4 = 648 810 - 648 = 162 Zach have \$162 more than Josh

10)12 x 4 + 9 = 57 rows→57÷3 = 19 deska→19 x 15 = 285 There are 285 desks

11)Volume→30 x 12 x 16 = 5760 Cubical→12 x 12 x 12 = 1728 Water rec tank→5760÷3 x 2 = 3840 At first→3840 - 1728 = 2112 The amount of water was 2112cm³

12)New salary→120% Spent→15% x 120% = 18% 18% - 15% = 3% 3%-->88 1%-->291/3 291/3 x 120 = \$3520

13)8/25 J→ ¾ 0 m 24/75 J→ 24/32 0 m 75 + 32 = 107 1u→642÷107 = 6 0\$n→6 x 32 = 192 Omar has \$192

14)1C→4 x 5 = 20 1A→2 x 3 = 6 20 + 6 = 26 1u→4290÷26 = 165 165 x 20 = 3300 No.children→3300÷4 = 825 There are 825 children 15)864 x 4 = 3456 3u→3456 1u→3456÷2 = 1152 5u→1152 x 5 = 5760 5760 x 2 = 11520 11520÷11.52

16)a)1u→(49.2 - 30) ÷ 15 = 1.28 18u→1.28 x 18 = 23.04 b→30 - 23.04 = 6.96 The mass of the box is 6.96kg b)49.2 - 42 = 7.2 7.2÷1.28 = 5.625 ≈ 6 6 flower pots should be removed

17)13/19

18)10 vouchers \rightarrow 35 x 9 = 315 315 + 17.5 = 332.5 20 vouchers \rightarrow 332.5 x 2 = 665 35 x 4 = 140 Total \rightarrow 665 + 140 = \$805 a) Mrs Teo has to pay \$805

10 vouchers→332.5 542.5 - 332.5 = 210 Remaining→210÷35 = 6 Total→10 + 6 = 16 b)Mr Lim bought 16 vouchers

End