

Rosyth School Semestral Two Examination 2010 Primary 5 Mathematics

Name:	Register No.
Class: Pr 5	
Date: 27 October 2010	Parent's Signature:
Total Time for Booklets A and E	3 : 50 min

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 5 pages (excluding this cover page)

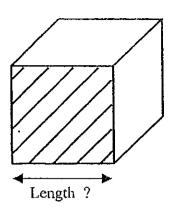
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Section A

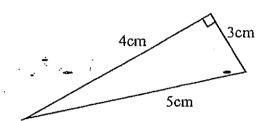
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

- .1. What does the digit 8 stand for in 258 634?
 - (X) 800
 - (2) 8000
 - (8) 80 000
 - (4) 800 000
 - 2. How many quarters are there in $2\frac{3}{4}$?
 - (XY 6
 - (2) 8
 - (3) 11
 - (4) 15
 - 3. Which one of the following is equivalent to 18: 24?
 - (X) 1:2
 - (2) 2:1
 - (3) 3:4
 - (4) 4:3

- 4. The area of the shaded face of the cube is 16 cm². What is the length of the cube?
 - (1) 12 cm
 - (2) 9 cm
 - (3) 8 cm
 - (A) 4 cm

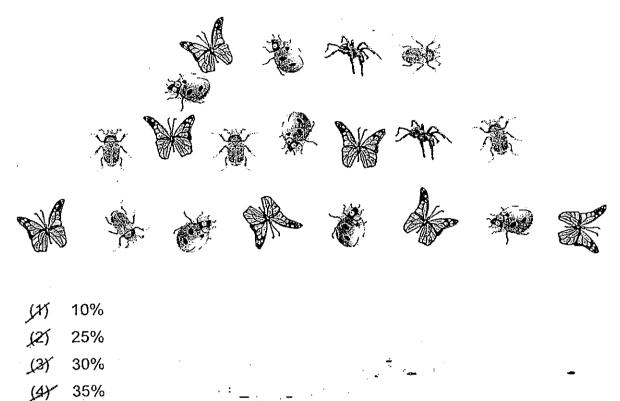


5. What is the area of the figure (not drawn to scale) below?

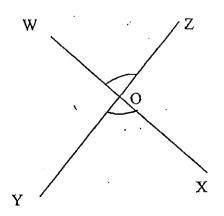


- (1) 2.5 cm²
- (2) 6 cm²
- (8) 7.5 cm²
- (4) 10 cm²
- 6. How many tenths make 2 whole?
 - $\mathcal{H} \frac{1}{5}$
 - (2) $\frac{1}{10}$
 - (3) 10
 - (4) 20

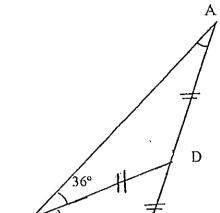
7. What percentage of the insects are butterflies?



- 8. What is the average of 16 cm, 30 cm and 35 cm?
 - 47 27 cm
 - (2) 30 cm
 - (3) 65 cm
 - (41) 81 cm
- 9. Lines WOX and YOZ are straight lines. Which angle has the same value as ∠ WOZ?
 - (x) ∠ woy (z) ∠ wox (x) ∠ yox (x) ∠ xoz



10. ABC is a triangle (not drawn to scale). AD = BE = BD. Find $\angle m$.

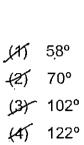


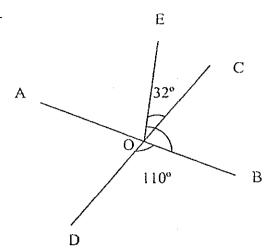
C

- (X) 36°
- (2) 54°
- (3) 72°
- (A) 108°

- 11. Judy and Lina had the same amount of money. After Lina bought a printer that cost \$180, Judy had 3 times as much money as Lina. How much money did the girls have in the end?
 - (4) \$60
 - (2) \$90
 - (3) \$270
 - (4) \$360
- 12. Mr Tanéearns \$ 1200 a month. He spends \$800 and saves the remainder. What fraction of his expenditure is his savings?
 - $\cancel{4}$ $\frac{1}{3}$
 - $(2)' \frac{1}{2}$
 - (3) $\frac{2}{3}$
 - $(4)^{2}\frac{2}{5}$

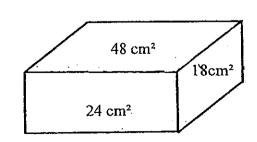
13. Lines AOB, DOC and OE are straight lines. Find ∠EOB.





14. There are 3794 pupils in the school. $\frac{4}{7}$ of the pupils are Chinese and $\frac{1}{7}$ of them are Indian. The rest are Malays. How many Malay pupils are there in the school?

15. The figure below is a cuboid. The surface areas of the three faces are as shown in the diagram. What is the volume of the cuboid?





Rosyth School Semestral Two Examination 2010 Primary 5 Mathematics

Name:	Register No		
.Class: Pr 5 -	-		
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Total Time for Booklets A and B : 50 min			
	PΔPER 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)

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Section B

Questions 16 to 25 carry 1 mark each. Questions 26 to 35 carry 2 marks each.

Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

16. What number is ten thousand less than one million?

Ans:_____

17. What is the digit in the thousandths place in 0.386?

Ans: _____

18. Find the value of $1 - \frac{1}{3} - \frac{5}{12}$ in its simplest form.

Ans: _____

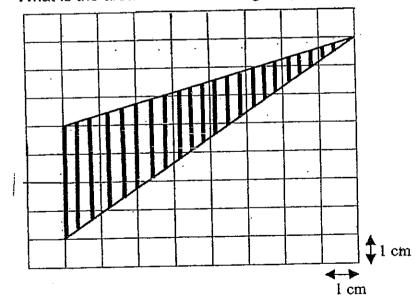
19. What is the value of $99 - 48 \div 3 \div 500 + 7 \times 700$?

Ans:_____

20. Simplify the ratio 81:36:72.

Ans:_____

21. What is the area of the shaded figure (not drawn to scale) below?

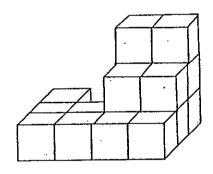


Ans:_____cm²

22.	The sides of a triangle are in the ratio 2 : 4 : 5. The longest side is 25 cm. The longest side is 25	What
	is the length of the shortest side?	

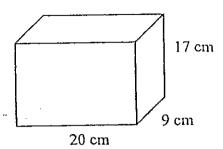
Ans:	 ·	<u></u>	cm

23. The solid is made up of 2-cm cubes. What is the volume of the solid?

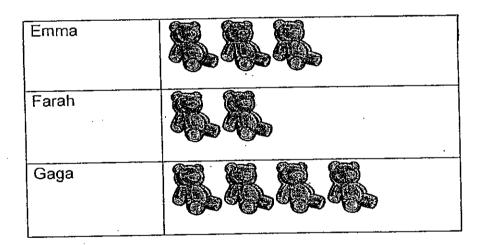


	•		
Ans:		cn	n.

24. What is the maximum number of 4-cm cubes that can be cut from a cuboid measuring 20 cm by 17 cm by 9 cm?



25. The picture graph shows the number of teddy bears owned by a group of 3 girls. How many more teddy bears must Farah buy for the group so that the average number of teddy bears owned by the group is 8?

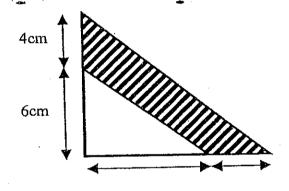


Ans::		
· ····	 	_

Questions 26 to 30 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)

26. Asman had 260 marbles. He gave his brother 110 marbles and his cousin $\frac{1}{3}$ of the remainder. What fraction of his marbles was left? (Express your answer in its simplest form)

27. Find the shaded area in the figure (not drawn to scale) below.



∖ns:		cm²
TITO.	1.	

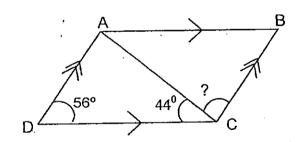
28. There were 60 questions in a test. Bala answered 75% of the questions correctly. How many questions did he answer incorrectly?

	-			
Ans:	1			
~\1Ļ⊅.		· <u> </u>	 	

29. The actual length of 2 ropes is measured up to 2 decimal places. The length of Rope A is rounded off to 2.6 m and the length of Rope B is rounded off to 3.4 m. What is the smallest possible difference in the actual lengths of these 2 ropes?

Ans:				m
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30. The figure below is not drawn to scale. ABCD is a parallelogram. Find ∠ACB.



Ans:	 	

End of Paper
Please check your work carefully.



Rosyth School Semestral Two Examination 2010 Primary 5 Mathematics

Name:	Register No
Class: Pr 5 -	
Date: 27 October 2010	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	

^{*} This booklet consists of 13 pages (including this cover page)

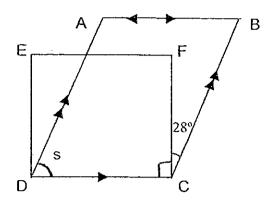
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ques	stions 1 to 5 carry 2 marks each. Show your working clearly in the stion and write your answers in the spaces provided. For questions	
give	your answers in the units stated.	(10 marks)
1)	Complete the number pattern below.	
	203 468, 203 357, 203 246,	
	Amor	
	Ans:	
O.	number of rulers and erasers is 4123. How many fewer pens are to	there than erasers?
	Ans:	
;	3) The table below shows the distance Kathy cycled in a week. What distance she cycled in a day?	it was the average
	Day Distance (km)	
	1 12	
	2 15	

Day	Distance (km)
1	12
2	15
3	0
4	0
5	0
6	14
7	15

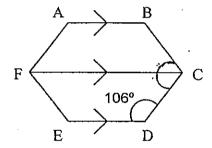
		•	
Ans:			kn

4) In the figure (not drawn to scale), ABCD is a parallelogram and CDEF is a square. Find ∠ s.



Ans: _____

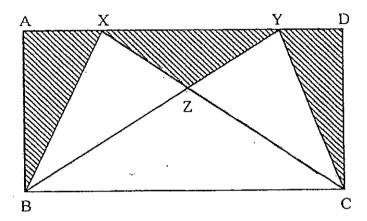
5) The figure below is not drawn to scale. FABC and FCDE are identical trapeziums. Find ∠BCD.



Ans:____

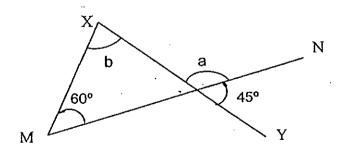
For questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in brackets [] at the end of each question or part question. (50 marks)

The figure below is not dawn to scale. The figure is made up of triangles drawn within a rectangle. BY and CX are straight lines. The area of rectangle ABCD is 480 cm² and the area of triangle BXZ is 56 cm². Find the total area of the shaded parts.



Ans:	[3]

- 7) The figure below is not drawn to scale. XY and MN are straight lines.
 - a) Find ∠a
 - b) Find ∠b.



Ans:	a)	[1]
	b) :	[2]

8) Cathy spent $\frac{1}{4}$ of her savings on food. She spent $\frac{1}{6}$ of the remainder on books. She was left with \$224 in her savings. How much did she spend on food?

Ans:	 	<u>.</u> ,	[3]

David earned \$6 000 a month. He saved 20% of his salary. He spent $\frac{1}{4}$ of his savings on his sister and the rest of his savings on a birthday gift for his brother. How much did he spend on the gift?

10) Greg spent \$12.78 on some 26-cent and 32-cent stamps. He bought 9 more 26-cent stamps than 32-cent stamps. How many 32-cent stamps did Greg buy?

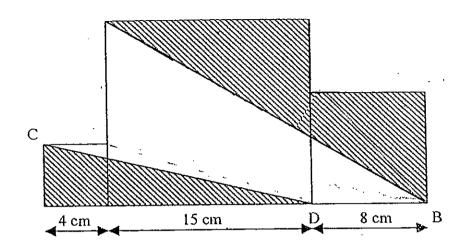
Ans:_		[3]	
-------	--	-----	--

11) A container was $\frac{4}{5}$ filled with water. When 2050cm³ of water was poured out, it became $\frac{2}{3}$ full. Find the capacity of the container in litres and millilitres.

Grandma baked 384 cookies for friends last Christmas. The ratio of the number of chocolate chip cookies to the number of butter cookies baked was 9:15. This year, the ratio of the number of chocolate chip cookies to the number of butter cookies was 7:4. If the number of butter cookies she baked remained the same in both years, how many more chocolate chip cookies were there this year than last year?

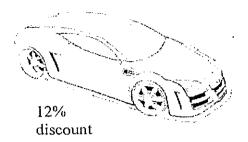
_	İ	F 47
Ans:	1	 [4]

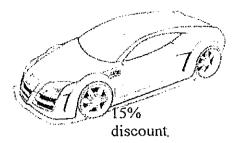
13) The figure below is made up of 3 squares of side 4 cm, 15 cm and 8 cm. AB and CD are straight lines. Find the unshaded area.



Ans: _____[4]

14) A black car cost \$100 500 before the 12% discount. A red car of the same model cost \$105 000 before the 15% discount.





Black Car \$100 500 (before discount)

Red Car \$105 000 (before discount)

- (a) Compare the prices of the black and red cars after discount. What is the difference in price?
- (b) What is the 7% GST of the cheaper car after the discount?

ins:	(a)	 [3]
	(b)	·[2]

- Hanis had \$960 less than Lina. After Hanis gave \$2400 to Lina, Lina had 3 times as much as Hanis.
 - (a) How much did Lina have in the end?
 - (b) How much did Hanis have at first?

Ans:	(a)	[3
	(b)	ro

16) Chris bought 27 chicken pies and 14 beef pies for \$115.20. A chicken pie cost $\frac{2}{3}$ as much as a beef pie. How much did 27 chicken pies cost?

Ans: _____[5]

- Mr Davidson has a class of less than 40 pupils. He gave all the pupils in his class some jellybeans. If he gave 5 jellybeans to each pupil, he would have 2 jellybeans left. If he gave 4 jellybeans to each pupil, he would have 38 jellybeans left.
 - a) How many jelly beans did he give away altogether?
 - b) How many pupils were there in his class?

Ans:	(a)	·	[2]		
		•			
	(b)		[2]		

	was 1	5 cm more than the average height of the remaining 2 pupils, Agnes and Tony
	a)	Find the average height of the remaining 2 pupils, Agnes and Tony.
	b)	Agnes was 25 cm taller than Tony. Find Agnes' actual height.
-		

~END OF PAPER~
Do check your work thoroughly!

Ans: (a)_

[3]

[2]

Answer Ke

EXAM PAPER 2010

SCHOOL: ROSYTH PRIMARY

SUBJECT: PRIMARY 5 MATHEMATICS

TERM : SA2

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

16)990000

17)6

18) 1/4

19)5483

20)9:4:8

21)16cm₂ _ _ _ 22)10

23)136cm₂

24)40 cubes

25)15 more

teddy bears

26)5/13

27)32cm₂

28)15 questions

29)0.71m

30)80°

Paper 2

1)203246 - 111 = 203135	2)2u + 5u = 7u 7u→4123 1u→589 5u – 3u = 2u 2u→1178 fewer pens
3)Total distance→12+15+14+15=56 56 ÷ 7 = 8km	4) \angle S = 180° -90° -28° =62°
5)∠FCD = 180° - 106° = 74° ∠ BCD = 74° x 2 = 148°	6)480 ÷ 2 = 240 240 - 56 = 184 480 - 184 - 56 - 56 = 184cm ₂
7)a)∠a = 180° - 45° = 135° (∠ on a straight line) b)∠b = 180° - 60° - 45° =75° (vertically opposite ∠)	8)5u→224 1u→44.80 2u→\$89.60
9)saved→20/100 x 6000 = 1200 1-1⁄4 = 3⁄4 (gift) Gift→ 3⁄4 x 1200 = \$900 David spent \$900 on the gift.	10)\$0.26 x 9 = \$2.34 \$12.78 - \$2.34 = \$10.44 \$0.26 + \$0.32 = \$0.58 \$10.44 ÷ \$0.58 = 18 Greg bought 18 32-cent stamps

	12)Last year
11)Before	$cc 9u \times 4 = 36 \qquad 90u$
Filled $4u \times 3 = 12u$	B 15u x 4 = 60u
Capacity 5u x 3 = 15u	B 130 X 4 = 000
After	This year
Filled $2u \times 5 = 10u$	cc 7u x 15 = 105u
Capacity $3u \times 5 = 15u$	B 4u x 15 = 60u
	Diff. in chocolate chip cookies
Diff-→2u-→2050	→105u - 36u = 69u
1u→1025	69u→384
15u→15375	1
15375cm3 = 15375ml = 15L 375ml	1u->4
	69u→276 more
13)152 + 82 + 42 = 305	14)a)Discount
$\frac{15}{12} \times 19 \times 4 = 38$	Black \rightarrow 12/100 x 100500 = 12060
$\frac{72 \times 13 \times 1}{1/2} \times 23 \times 15 - (7 \times 8) = 116.5$	100500 - 12060 = 88440
305 – 38 – 116.5 = 150.5cm ²	$Red \rightarrow 15/100 \times 105000 = 15750$
303 - 30 110.3 - 150.50	105000 - 15750 = 89250
	89250 - 88440 = \$810
	The difference in price is \$810
· - · · · -	b)cheaper car→Black 7/100 x 88440
	= 6190.80
•	The 7% GST is \$6190.80
472.20.2000	16)27C + 14B = 115.20
15)a)2u→960	$(27 \times 2/3) + 14B = 115.20$
1u→480	18B + 14B = 115.20
3u→1440	32B = 115.20
2400 x 3 = 7200	1B = 3.60
7200 + 1440 = \$8640	$1C = 2/3 \times 3.60 = 2.40$
Lina had \$8640 in the end.	27C = \$64.80
b)2400 x 2 = 4800	27 chicken pies cost \$64.80
48000 + 480 = \$5280 Hanis had \$5280 at first	27 Chicken pies cost 40 hos
	1
17)a)182 jellybeans	18)a)15 x 4 = 60
b)36 pupils	1020 - 60 = 960
· ·	960 ÷ 6 = 160cm
	Their average height is 160cm
	b)160 x 2 = 320
	320 – 25 = 295
	$295 \div 2 = 147.5$
	147.5 + 25 = 172.5cm
	Agnes' height is 172.5cm
	Agrico ricigire to 27