

Rosyth School End-of-Year Examination 2023 Mathematics Primary 5 Paper 1

Name:		Register No.			
Class:	Pr 5				
Date:	24 October 2023	Parent's Signature:			
Total Time for Booklets A and B : 1 hour					
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ROOKIEL V

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	

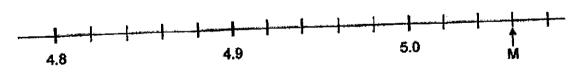
^{*} This booklet consists of 8 pages (including this cover page).

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) and write your answer in the brackets provided.

All diagrams in this paper are not drawn to scale unless stated otherwise.

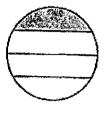
(20 marks)

- 1. What is the value of 33 (6 + 12) + 3?
 - (1) 5
 - (2) 13
 - (3) 27
 - (4) 31
- 2. What is the value of the digit 2 in 10 245?
 - (1) 20
 - (2) 200
 - (3) 2000
 - (4) 20 000
- 3. In the scale below, what is the value of M?



- (1) 5.3
- (2) 5.6
- (3) 5.03
- (4) 5.06

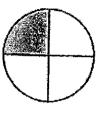
4. The ratio of the shaded area of the circle to the unshaded area of the circle is 1:4. Which of the following figures below represents the given ratio?



Α



В

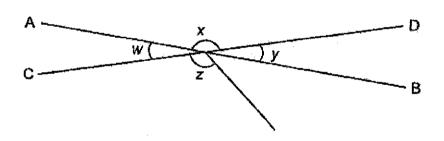


C



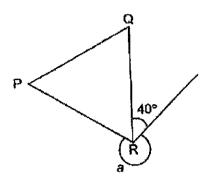
D

- (1) A
- (2) B
- (3) C
- (4) D
- 5. In the figure below, AB and CD are straight lines. Which two angles are equal?

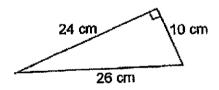


- (1) ∠x and ∠y
- (2) Zx and Zz
- (3) Zw and Zy
- (4) Zw and Zz

6. In the figure below, PQR is an equilateral triangle. Find ∠a.



- (1) 100°
- (2) 140°
- (3) 260°
- (4) 320°
- The figure below shows a right-angle triangle. Find the area of the triangle.



- (1) 120 cm²
- (2) 130 cm²
- (3) 240 cm²
- (4) 312 cm²

8. What fraction of the stars are shaded?











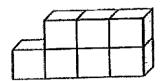
9. Jon had 200 stickers. He gave 90 stickers to his friend. What percentage of his stickers did Jon give to his friend?

- (1) 10%
- (2) 45%
- (3) 55%
- (4) 90%

10. The total marks obtained by 4 students is 60. What is the average number of marks obtained by the 4 students?

- (1) 15
- (2) 56
- (3) 64
- (4) 240

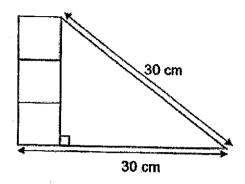
11. John stacked 7 boxes as shown in the diagram below.



Each box had a mass of 10 kg 8 g. Find the total mass of the 7 boxes.

- (1) 756 kg
- (2) 75.6 kg
- (3) 70.56 kg
- (4) 70.056 kg
- 12. Ken saved $\frac{1}{4}$ of his allowance and spent $\frac{3}{5}$ of the remaining allowance on food. He had \$72 left. How much was his allowance?
 - (1) \$120
 - (2) \$180
 - (3) \$240
 - (4) \$480

13. The figure below shows 3 identical squares and a triangle. The area of each square is 36 cm². Find the area of the figure.



- (1) 324 cm²
- (2) 378 cm²
- (3) 468 cm²
- (4) 558 cm²

- 14. Matthew had \$25 more than Amy. When Amy gave Matthew \$20, Matthew had 6 times as much money as Amy. How much money did Amy have at first?
 - (1) \$29
 - (2) \$33
 - (3) \$78
 - (4) \$108

- 15. Ben shared a sum of money equally with Carla. To buy a present for their mother, Ben spent ¹/₆ of his money and Carla spent \$45 of her money. In the end, ³/₄ of the original sum of money was left. What was the original sum of money shared by Ben and Carla?
 - (1) \$135
 - (2) \$180
 - (3) \$270
 - (4) \$540

(Go on to Booklet B)



Rosyth School End-of-Year Examination 2023 Mathematics Primary 5 Paper 1

Name:	Register No.				
Class: Pr 5	· ·				
Date: 24 October 2023	Parent's Signature:				
Total Time for Booklets A and B : 1 hour					

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.
- Use a dark blue or black ballpoint pen to write your answers in the space provided for each question.
- 5. Do not use correction fluid/tape or highlighters.
- 6. You are <u>not</u> allowed to use a calculator.

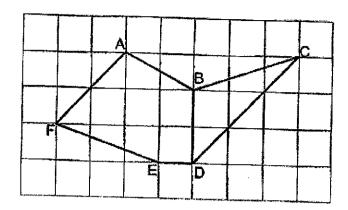
Maximum Mark	Marks Obtained
25	

^{*} This booklet consists of 9 pages (including this cover page).

Questi	ons 16 to 20 carry 1 mark each. W estions which require units, give yo	rite your answers in the spaces prov our answers in the units stated.	rided. Do not write in this space
All dia	grams in this paper are not draw	on to seein unless stated otherwis	e. narks)
16.	Express $3\frac{7}{25}$ as a decimal.		
		Ans:	
17.	Find the value of 24×400 .		
		Ans:	
18.	Find the value of $\frac{1}{2} \times \frac{5}{8}$.		
		Ans:	
		2 (Go c	on to the next page)

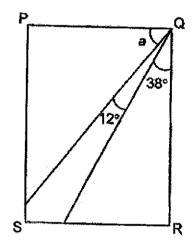
19. Which line in the square grid is parallel to AF?

Do not write in this space



Ans:

20. In the figure below, PQRS is a rectangle. Find ∠a.



Ans: _____o

3

	4 (Go on to the ne	ext page)
	Ans: \$	
		-
	Jill spend on books?	
22.	Jill had \$400, She spent 20% of her money on books. How much money did	
	Ans:litres	
!1.	Two cups and a jug contain 2.33 litres of water. The volume of water in each cup is the same. The volume of water in one cup is 1.61 litres less than the volume of water in the jug. Find the volume of water in each cup.	
	agrams in this paper are not drawn to scale unless stated otherwise. (20 marks)	
11 45		

.

23. The table below shows the number of blue pens and red pens in 4 boxes.

Do not write in this space

Вох -	Number	r of pens
20%	Red	Blue
A	17	12
В	10	18
C	13	12
D	11	15

(a) Which coloured pen has a greater number? Circle the correct answer.

Ans: Red / Blue

(b) All the pens are repacked such that each box contained the same number of pens. How many pens are there in each box now?

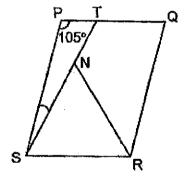
Ans:

p.	The figure	below	v sho	2 200	lino		•		···········	ns; _				
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e	The figure	below	v sho	a awa	lino		•		···········					
g.	The figure	below	v sho	3 200	lino		•		···········					
*	The figure	below	v sho	a awa	lino				···········					
e	The figure	below	v sho	a awa	lino		•		···········					
	The figure	below	v sho	a awa	lino				············					
ga.	The figure	below	v sho	aws:	lino				············					
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	ABX is a triangle A	n isos BX on	cele the	s tria grid	ingle abov	. ∠A ⁄e.	BX i	s 90'	° and	AB	= B>	(. Draw	and labo	el
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Ans:		I	
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27. PQRS is a parallelogram and NRS is an equilateral triangle. ST is a straight line. Find ∠PST.



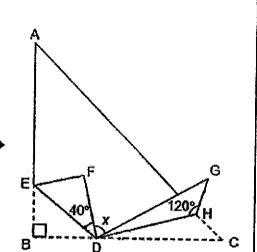
Ans:	
	<u> </u>

28.	The following diagram shows triangles P, Q and R on a grid.	Do not write in this space
	Arrange the triangles from the smallest area to the biggest area.	
	Апѕ:	
	smallest biggest area area	
29.	The figure below is made up of squares. The area of the smallest square	e is
	4 cm ² . The area of the biggest square is 81 cm ² . Find the area of the figure 10 cm ² .	ire.
	Ans:	cm²
	A115.	
<u>,</u>	8 (Go on to the	ne next page)

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30. Ron cut a piece of paper into the shape of an isosceles right-angled triangle | Do not write ABC, where AB = BC. He folded the triangle along the dotted lines DE & DH in this space as shown below. Find ∠x.

Ε



Ans: _____o

End of Paper Have you checked your work?



Rosyth School End-of-Year Examination 2023 Mathematics Primary 5 Paper 2

Class: Pr 5 Date: 24 October 2023 Parent's Signature: Time: 1 h 30 min	Name:	Register No.
- Total 5 Olynaturs,	Class: Pr 5	
Time: 1 h 30 min	Date: 24 October 2023	Parent's Signature:
	Time: 1 h 30 min	

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. Use a dark blue or black ballpoint pen to write your answer in the space provided for each question.
- 5. Do not use correction fluid/tape or highlighters.
- 6. The use of an approved calculator is allowed.

Questions	Maximum Mark	Marks Obtained
Q 1 to 5	10	
Q 6 to 17	45	:

Section	Maximum Mark	Marks Obtained
Paper 1	45	
Paper 2	55	
Total	100	

^{*} This booklet consists of 16 pages (including this cover page)

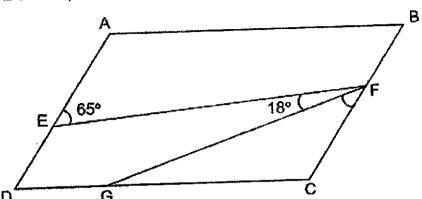
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p q	provide Juestion All diag	d for each question and wr ns which require units, give y grams in this paper are no	ach. Show your working clite your answers in the spa your answers in the units sta t drawn to scale unless sta	ited. (10 marks) ited otherwise.	Do not write in this space
1.	A so its vo	lid cuboid of height 12.5 cm olume?	has a square base of side	I.7 cm. What is	
		12.5 cm			
	4.	7 cm	Ans:	cm³	
2.	The	table below shows the post	al charges for sending a lett Charges	er to Indonesia.	
		First 15 g	\$0.55		
		Every additional 5 g	\$0.10		
	Mac tota	deline sent a letter weighing il?	37 g to Indonesia. How much		
			, iiio. ¥		
			2	(Go on to the nex	t page)

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3.	The price of one cookie from a bakery is \$1.80. When a customer buys 3 cookies,	Do not write in this space
	he will receive one more for free. Ben paid \$39.60 for his cookies. How many	or true above
	cookies did Ben receive altogether?	
] [
	Ans:	
4.	Benny scored an average of 36 points for three games. How many points must	
	he score in the fourth game if he wants to get an average score of 40.7 points?	
		<u></u>
	Ans:	
ييمان	7+10,	
	3 (Go on to the next pe	ace)
• :		~ ",

5. ABCD is a parallelogram, Find ∠CFG.



Do not write In this space

Ans: _____

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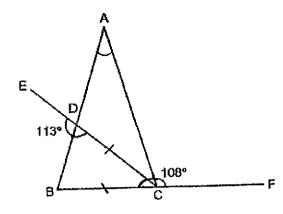
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For Questions 6 to 17, show your working clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in brackets [] at the end of each question or part-question. For questions which require units, give your answers in the units stated. (45 marks) All diagrams in this paper are not drawn to scale unless stated otherwise.	Do not writ in this space
A table and a cupboard cost \$1345 altogether. $\frac{1}{3}$ of the cost of the table was \$75 more than $\frac{1}{4}$ of the cost of the cupboard. How much more did the table cost than the cupboard?	And the state of t
	The state of the s

5

7. ABC is a triangle. EC and BF are straight lines and DC = BC. Find ∠BAC.

Do not write in this space



Ans: _____[3]

8. Anthony made some pies and muffins. He sold each pie at \$7 and each muffin at \$3. The ratio of the number of pies sold to the number of muffins sold is 1 : 8. Anthony collected \$589 altogether. How many pies did he sell?

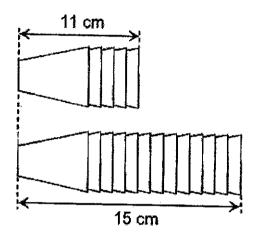
Ans; _____[3]

6

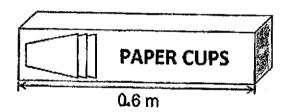
9. The figure shows two stacks of identical paper cups. There are 5 cups in the | Do not write shorter stack and 13 cups in the longer one.

in this space

The length of the shorter stack is 11 cm and the length of the longer stack is 15 cm.

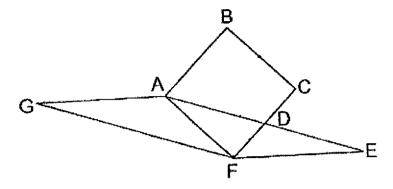


Ricky wants to pack the paper cups as a single stack into a box 0.6 m long. What is the most number of paper cups that he can pack into the box?



Ans:[3]	L

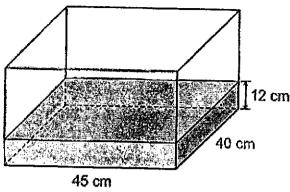
The figure below is made up of a square ABCF of side 16 cm and 2 identical loo not write triangles AFE and AFG. CD = DF and AD = DE. Find the area of the figure. 10.



[3] Ans: _

11. Mike had a rectangular tank 45 cm long and 40 cm wide. It was $\frac{3}{8}$ filled with water. The height of the water level in the tank was 12 cm.

Do not write in this space



(a) How many more litres of water were needed to fill the tank completely?

Ans: (a)[2]	
Ans: (a)[2]	

(b) Mike filled the tank to the brim. He used all the water to fill some bottles without spilling. The capacity of each bottle was 350 ml. What was the least number of such bottles needed to hold all the water?

Ans: (b)[2]	

9

12.	3 identicals football cost as much as 2 identical basketballs. Mr Chai bought 5 such footballs and 3 such basketballs at \$532. What is the total cost of 1 football and 1 basketball?	Do not write in this space
	Ans:[4	
	10 (Go on to the nex	t t page)
	www.sgexams.com	

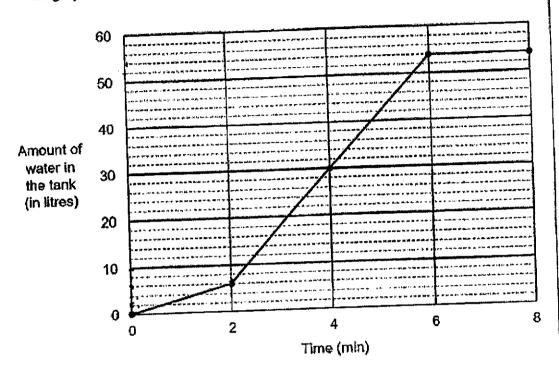
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***	12 (Go on to the ne	xt page)
	Alls.	
	Ans:[5]
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1	Sandy bought an equal number of mutins and taits. The matths were sold at 7 for \$5. She paid a total of \$164 for all the muffins and tarts. How many muffins and tarts did she buy altogether?	
•		1

15.		Chandran bought a television that cost \$1320 before a discount of 30%.	Do not write in this space
	(a)	Find the amount of discount given for the television.	in uno apace
		Ans: (a)[1]	
-	(b)	Mr Chandran paid \$1722 for a laptop. The total discount for the television and the laptop was \$642. What was the percentage discount given for the laptop?	
		Ans: (b)[3]	
	,	13 (Go on to the next p	age)

16. An empty tank was filled water using two taps, Tap A and Tap B. Only Tap A was turned on for the first 2 minutes to add water in. After 2 minutes, both Tap A and Tap B were turned on to fill water into the tank until it was completely filled. The graph below shows the volume of water in the tank over a period of 8 minutes.

Do not write in this space



(a) What fraction of the tank was filled with water by the end of the first 2 minutes?

Ans: (a) _____[1]

16.	(b)	In one minute, how many litres of water flo	wed out of Tap B?	Do not write in this space
				:
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -				
		•		
		A	ns: (b) [3]	
		15	(Go on to the next	page)

17.	Alan had some magnets and stickers. He gave $\frac{3}{4}$ of all the items away. $\frac{1}{4}$ of the items given away were magnets. $\frac{2}{3}$ of the items left were stickers. The number of magnets given away was 80 more than the magnets left.	Do not write in this space
(a) What fraction of the total number of items were magnets left?	
	Ans: (a)[2]	
d	(b) Find the total number of magnets and stickers that Alan had at first.	
	Ans: (b)[3]	
		7

End of paper Have you checked your work? SCHOOL :

ROSYTH SCHOOL

LEVEL :

PRIMARY 5

SUBJECT:

MATHEMATICS

TERM

2023 SA2

PAPER 1 (BOOKLET A)

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<u>Q</u> 6	3	. Ø7	1	Q.E.	2	° (£8)	2	- 6/10	1
@111	4	H042	3	(E)	1	(Q[4)	2	-045	3

PAPER 1 (BOOKLET B)

1

Q16	3.28
Q17	9600
Q18	<u>5</u> 16
Q19	CD
Q20	40°
Q21	0.24 ℓ
Q22	\$80
Q23a	Blue
Q23b	27
Q24	140
Q25	
Q26	47
Q27	15°
Q28	P, R, Q
Q29	134 cm ²
Q30	70°

PAPER 2

PAPER 2	
Q1	Vol. = 4.7 cm x 4.7cm x 12.5 cm = 276.125 cm ³
Q2	Total paid = \$0.55 + (\$0.10 x 5) = \$1.05
Q3	Price for 4 cookies (Buy 3 get 1 free) = \$1.80 x 3 = \$5.40 \$39.60 ÷ \$5.40 = 7 R \$1.80 \$1.80 can buy 1 cookie Total cookies = 4 x 7 + 1 = 29
Q4	Total for 3 games = 36 x 3 = 108 Total for 4 games = 40.7 x 4 = 162.8 Score for 4th game = 162.8 - 108 = 54.8
Q5	∠EFB = 180° - 65° = 115° ∠CFG = 180° - 41° - 90° = 49°
Q6	7u = \$1345 - (\$75 x 3) = \$1120 1u = \$160 3u = \$480 Cost of table = \$480 + \$225 = \$705 Cost of cupboard = \$160 x 4 = \$640 Difference in cost = \$705 - \$640 = \$65
Q7	∠BDC = 180° - 113° = 67° ∠DBC = 67° ∠BCD = 180° - (2 x 67°) = 46° ∠ACD = 180° - 108° - 46° = 26° ∠BDC = 180° - 67° - 26° - 46° = 41°
Q8	Group 1 pie & 8 muffins as 1 group Cost of 1 group = \$7 + (\$3 x 8) = \$31 No. of groups = \$589 ÷ \$31 = 19
Q9	Let u be the stacked extra cup height 8u = 4 cm 1u = 0.5 cm 11 cm = 4u - length of full cup height Length of full cup height = 11 cm - (4 x 0.5 cm) = 9 cm 60 cm - 9 cm = 51 cm 51 cm ÷ 0.5 cm = 102 Total cups = 102 + 1 = 103
Q10	Area of \triangle AFD = 0.25 x 16 x 16 = 64 cm ² Area of \triangle AFE = 64 x 2 128 cm ² Area of \triangle AGF = 128 cm ² Total area = 128 x 2 + (16 x 16 - 64) = 448 cm²

Q11a	$\frac{3}{8} \text{ of height} = 12 \text{ cm}$ $\frac{5}{8} \text{ of height} = (12 \div 3) \times 5 \approx 20 \text{ cm}$				
	Amt of water needed to fill tank fully = 20 cm x 45 cm x 40 cm = 36 €				
Q11b	Total capacity of tank = $36 \ \ell + (12 \times 45 \times 40) = 57.6 \ \ell$ No. of full bottles = $57600 \ \text{ml} + 350 \ \text{ml} = 164 \ \text{R} \ 200 \ \text{ml}$ Total no. of bottles needed = $164 + 1 = 165$				
Q12	1 basketball (B) = 1.5 footballs (F) 5F + 3B = 5F + 4.5F = 9.5F 9.5F = \$532 1F = \$532 ÷ 9.5 = \$56 1B = \$56 X 1.5 = \$84 1F + 1B = \$56 + \$84 = \$140				
Q13	Total amount over new average = $3 \times $102 - (3 \times $72) = 90 Extra \$90 needs to be compensated by amount lesser than new average Difference b/w old and new average = $$72 - $54 = 18 No. of pairs of shoes under new average cost = $$90 \div $18 = 5$ Total pairs = $3 + 5 = 8$				
Q14	LCM of 4 & 7 = 28 Group 28 muffins and 28 tarts as 1 group Cost of 1 group = 7 x \$3 + 4 x \$5 = \$41 No. of groups = \$164 ÷ \$41 = 4 Total bought = 4 (28 + 28) = 224				
Q15a	100% → \$1320 30% → \$1320 x 0.3 = \$396				
Q15b	Laptop discount = $$642 - $396 = 246 % discount = $\frac{\text{change}}{\text{original}} = \frac{$246}{($246 + $1722)} = 12.5\%$				
Q16a	1 9				
Q16b	Rate of A/min = 3 \ell Total rate/min = 12 \ell Rate of B/min = 12 \ell - 3 \ell = 9 \ell				
Q17a	Fraction of magnets left = $\frac{1}{4} \times \frac{1}{3} = \frac{1}{12}$				
Q17b	Fraction of magnets given away = $\frac{3}{4} \times \frac{1}{4} = \frac{3}{16}$ Diff. in magnets given away & left = $\frac{3}{16} \cdot \frac{1}{12} = \frac{5}{48}$ $5u = 80$ $1u = 16$ $48u = 768$				