

ROSYTH SCHOOL 2021 PRELIMINARY EXAMINATION MATHEMATICS PRIMARY 6 PAPER 1

Name:	Regis	ster No.
C'ass: Pr 6	_ Group	·
Date: 24 August 2021	Parent's Signature:	······································
Total Time for Booklets A and B :	f hour	
BC	OKLET 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.

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Section	Maximum Mark	Ма	rks Obtained
Paper 1 (Booklet A)	20		

* This booklet consists of 9 pages (including 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.

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

(20 marks)

- 1. Which one of the following numbers is the largest?
 - (1) 2.032
 - (2) 2.302
 - (3) 2.230
 - (4) 2,023
- 2. Mark bought 2k boxes of erasers. Each box contained 10 erasers. What was the total number of erasers he bought?
 - (1) 2k + 10
 - (2) 2k+20
 - (<u>3</u>) 12k
 - (4) 20k
- 3. The opening times of Sharkie Restaurant is shown below. For how long is the restaurant open each day?
 - (1) 7 h 15 min
 - (2) 7 h 30 min
 - (3) 7 h 45 min
 - (4) 10 h 30 min

Opens Daily

Lunch : 11.30 a.m. to 2.45 p.m.

Closed for Break 2.45 p.m. to 5.45 p.m.

Dinner: 5.45 p.m. to 10.00 p.m.

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In the diagram, A, B and C are 3 points on the ground. Point A is north of Point B $_{-}$ and the ∠ABC is 225°. In what direction is point C from point B?



(1) South-West

4.

- (2) North-West
- (3) South-East
- (4) North-East
- 5. The top of the tree reaches the 4th storey of a block of flat. Which of the following could be the height of the tree?



- (1) 1.02 km
- (2) 1.2 m
- (3) 12 m
- (4) 102 cm

3

6. AB, CD and EF are all straight lines.



Which of the following statements is true?

- (1) ∠e = ∠b
- (2) ∠b = ∠d
- (3) $\angle a + \angle b = \angle d$
- (4) ∠b + ∠c = ∠e
- 7. The letters M, R, A, Z and E are written in the square grid shown below. Which of the options given list all the letters that have perpendicular lines?

			 7				7		
	_	 \leq	 \Box	$\mathbf{\mathbf{z}}$	·	Z	·····		

- (1) E and R
- (2) A, E and R
- (3) E, M and R
- (4) E, M, R and Z

(Go on to the next page)

8. A group of children was asked to choose their favourite animal. Each child can choose more than one animal. The table represents the children's choices. The children's choices were also represented by a bar graph.

Animal	Cat	Dog	Hamster	Rabbit
Percentage	10%	60%	40%	10%

Which of the following bar graphs best represents the information shown in the table above?



34 191

9. Alynna had an empty piggy bank. Each week, Alynna would put some money into her piggy bank. The graph below shows the amount of money she had in her piggy bank at the end of each week.



In which week did Alynna put in the most amount of money into her piggy bank?

- (1) Week 1
- (2) Week 2
- (3) Week 3
- (4) Week 4
- 10. Mary's father bought her a laptop at \$2500. She had to repay him an equal amount of money each day for the laptop. She took 1000 days to pay him back. How much did she repay her father each day?
 - (1) \$0.25
 - (2) \$2.50
 - (3) \$25
 - (4) \$250

(Go on to the next parge)

- 11. Jenny sews 2 masks in half an hour. Siti sews 3 masks in an hour. How long will both of them take to complete sewing 105 masks together?
 - (1) 15 h
 - (2) 21 h
 - (3) 26 h
 - (4) 30 h
- 12. Aishah cut out 4 identical right-angled triangles. Each right-angled triangle has a perimeter of 36 cm. She formed the shape shown below. What is the perimeter of the figure formed by the 4 right-angled triangles?



- (1) 72 cm
- (2) 108 cm
- (3) 144 cm
- (4) 180 cm

(Go on to the next page)

13. In a party, $\frac{1}{5}$ of the people are female and the rest are male. $\frac{1}{2}$ of the female are vegetarians. There are three times as many male vegetarians as female vegetarians.

What fraction of the people at the party are vegetarians?

(1) $\frac{3}{10}$ (2) $\frac{2}{5}$ (3) $\frac{3}{5}$ (4) $\frac{7}{10}$

14. In the figure, STUV is a trapezium and triangle RSU is an isosceles triangle. \angle RSV = 24°, \angle TSU = 64°, \angle TUV = 84° and \angle SUR = 72°. Find \angle STU.



- (1) 62°
- (2) 84°
- (3) 86°
- (4) 96°

(Go on to the next page)

- 15. Sharon has 3 more 20-cent coins than 50-cent coins. The total value of all her coins is \$10.40. How many 20-cent coins does she have?
 - (1) 11 -
 - (2) 12
 - (3) 14
 - (4) 17

Go on to Booklet B

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ROSYTH SCHOOL 2021 PRELIMINARY EXAMINATION MATHEMATICS PRIMARY 6 PAPER 1

Name:	Registe	r No
Class: Pr 6	Group:	
Date: 24 August 2021	Parent's Signature:	
Total Time for Booklets A and B	: 1 hour	

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. Write your answers in the booklet.
- 5. Answer all questions.

Section	Maximum Mark	Marks Obtained
Paper 1 (Booklet B)	25	

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estions which require units, give your answers in the units stated.	in this spa
agrams in this paper are not drawn to scale unless stated otherwise. (5 marks)	
Find the value of $20 - 8 + 4 \times (2 + 6) + 1$.	
Ans:	L
A watch cost \$120 before discount. How much would Mr Lim pay for the watch after discount?	
Hurry while stocks last! 25% off now!	
Ans: \$	
	(5 marks) Find the value of 20 – 8 + 4 × (2 + 8) + 1. Ans: A watch cost \$120 before discount. How much would Mr Lim pay for the watch after discount? Hurry while stocks last1 25% off now!

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19. 3 triangles are drawn in the grid shown below. Which triangle has the Do not write same area as Rectangle Z?

(Go on to the next page)

Questions 21 to 30 carry 2 marks each. Show your workings clearly in the space Do not write provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

L

All	diagrams in this paper are not drawn to scale unless stated otherwise. (20 marks)	
21.		-
	Ans:	
22.	represented by AAA.	
	AAA has 4 factors. What is the value of A?	
	A A A A A A A A A A A A A A A A A A A	
23.	Sarah has 1.08 litres of orange juice. She wants to pour 90 ml of orange juice into each cup. How many cups can she fill?	
	Ans:	
	5 (Go on to the nex	t page)

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24.	Matthew had \$83. He spent the entire amount of money on the 3 items shown below. Find the value of y.	Do not write
	$\mathbf{\mathcal{O}} \mathbf{\mathcal{O}} \mathbf{\mathcalO} \mathbfO \mathcalO \mathcalO \mathcalO \mathcalO \mathcal$	
	\$(y-1) \$(2y)	
	\$y \$(2y)	
	Ans:	
		-
25.	There were 162 pages in a story book. Eve read $\frac{1}{2}$ of the story book or	
	Monday. She read $\frac{1}{3}$ of the remainder on Tuesday. The rest of the pages	
	were read equally on Wednesday and Thursday. How many pages did she	
	read on Thursday?	
	Ans:	
26.	The average of three different 3-digit numbers is 123. One of the numbers is	
20.	107. Find the smallest possible difference between the two other numbers.	
	Ans:	
		1

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28. The 2 bar graphs showed the number of bottles of different flavoured milk sold on Monday and Tuesday.

Do not write in this space



What was the percentage increase in the number of bottles of milk sold on Tuesday?

Ans: _____

%



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ROSYTH SCHOOL 2021 PRELIMINARY EXAMINATION MATHEMATICS **PRIMARY 6** PAPER 2

Name:	Register No.
Class: Pr 6	Group No:
Date: 24 August 2021	Parent's Signature:
Time: 1h 30min	

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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	٦
Q 1 to 5	10	· · · · · · · · · · · · · · · · · · ·	-
Q 6 to 17	45	••••••••••••••••••••••••••••••••••••••	1

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

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uesti	ed for each question and write your an ons which require units, give your answ	your working clearly in the space swers in the spaces provided. For ers in the units stated. (10 mark	
II diagrams in this paper are not drawn to scale unless stated otherwise.			
<u></u> .	At 10 a.m., Ali and John set their alar clock to ring every 15 minutes. John minutes. At what time will it take for bo for the first time?	set his alarm clock to ring every a	20 .
		·	
		Ans:	a.m.
	The table below shows the prices of a face masks at a shop.	·····	
	face masks at a shop.	bottle of hand sanitiser and a box	
	face masks at a shop.	bottle of hand sanitiser and a box	
	face masks at a shop.	bottle of hand sanitiser and a box	
	face masks at a shop. Item A bottle of hand sanitiser	bottle of hand sanitiser and a box Price \$w \$(w + 8) hand sanitisers and some boxes	of

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There were three types of flowers in a garden. There were 352 stalks of orchids. The ratio of the number of stalks of tulips to the number of stalks of lilies is 5 : 3. The total number of stalks of tulips and lilies was 56% of all the flowers. How many more stalks of orchids were there than tulips?

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11. An equal number of children attended Camp A and Camp B. The ratio of the number of girls to the number of boys in Camp A was 5 : 9. The ratio of the number of girls to the number of boys in Camp B was 4 : 1. Altogether, there were 132 more girls than boys. How many children were there in both camps?

Do not write in this space



12. The table below shows the different types of juices sold at a stall.

Type of Juices	Volume of juice per bottle
Apple	250 ml
Watermelon	500 m²
Orange	600 ml

Do not write in this space

The bar graph shows the number of bottles of each type of juice sold at the stall on a Monday. The bar that shows the number of bottles of orange juice sold has not been drawn.



- (a) The total volume of orange juice sold was 48 litres.
 Draw the bar representing the number of bottles of orange juice sold in the bar graph above. You are not required to shade the bar. [2]
- (b) On the next day, the number of bottles of apple juice sold decreased by 25%. The number of the bottles of watermelon juice and orange juice sold remained the same. What fraction of the bottles sold were apple juice?



[2]

13. Claire had a roll of wire that was used to make stars. She used 3.75 m of the wire to make 12 small stars and 15 big stars. There was some remaining wire left. She could not make a big star with the remaining wire as she would be short of 4 cm of wire. So she made a small star with the remaining wire instead and had 3 cm of wire left.

Do not write in this space



- (a) What was the difference in the length of wire used to make a big star and a small star?
- (b) What was the length of the roll of wire Claire had at first?











Do not write in this space

17. Below shows the prices of some items at a bookshop.



- (a) Kenny bought 2 calculators and 16 notebooks for \$60.30. There was a discount given on the calculators only. What was the percentage discount of the calculators?
- (b) Mr Koh bought an equal number of calculators and notebooks without any discount. He spent \$1467 more on the calculators than the notebooks. How many notebooks did he buy?



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ANSWER KEY

YEAR	:	2021
LEVEL	:	PRIMARY 6
SCHOOL	:	ROSYTH
SUBJECT	:	MATHEMATICS
TERM	:	PRELIMINARY

BOOKLET A (PAPER 1)

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01	2	02	Δ	03					<u> </u>
				<u></u>	4	Q4	3	Q5	3
Q6	4	Q7	3	Q8	1	Q9	1	010	2
Q11	1	Q12	1	Q13	2	Q14	3	Q15	4

BOOKLET B (PAPER 1)

Q16	5	Q17	120 x 75% = \$90
Q18	SOLD1800kg Money collected 1800 x \$20 = \$36000	Q19	K
Q20		Q21	32 ÷ 6 = 5R2 ANS : 4
Q22	1	Q23	108 = 108 x 1000 = 1080 1080 ÷ 90 = 12
Q24	Y - 84 ÷ 4 = \$21	Q25	$162 \times \frac{1}{7} \times \frac{1}{2} = 27$
Q26	$262 \div 2 = 131$ 131 + 1 = 132 131 - 1 = 130 132 + 30 = 2 ANS : 2	Q27	90 – 71 = 19 °
Q28	$\frac{88-80}{80} \times 100\% = 10\%$	Q29	$< DCG = \frac{180^{\circ} - 43^{\circ}}{2} = 68.5^{\circ}$
Q30	True True		2

PAPER 2

Q1	11 a.m	Q2	265 - 15 x 3 = 220 Box 220 ÷ 11 = 20
Q3	15 ÷ 2 = 12R1	Q4	360 - 283 - 29 - 16 = 32°

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	$12 \times 2 = 24$		
	24 x 8 = 192	06	44 - 4 x 300 = \$1200
Q5	\$12.60	Q6	
Q7	Diff : 9000 - 6000 = 3000 stars	Q8	$56 \div 8 \times 5 = 35\%$
			35% - 35 x 8 = 280
			352 - 280 = 72
Q9	$\frac{60-8}{3} = 17r1$	Q10	
	3 17 + 1 = 18	A,B)	
			-
Q11	25u + 56u 45u 14u = 22u	Q12	a)
	22u → 132		
	140u → 132 ÷ 22 x 140 = 840		and a second sec
			b) Apple \rightarrow 60 x 75% = 45
		1	45 1
			45+100+80 5
Q13	a) 4+3=7	Q14	a) $\frac{30-4x5}{5} = 2$
	b) 3.75m = 375cm		5+2+2=9m
	27x → 375 - 105 = 270		b) Shaded = (2 x 3.14 x 4.5 x
	$X \rightarrow 270 \div 27 = 10$		4.5)-(2 x 3.14 x 3.5 x
	Length at first		3.5)+(3.14 x 2.5 x 2.5)
	\rightarrow (10 x 12 + 15 x 10 + 7 x		=127.17 - 76.93 + 19.625
	$(10 \times 10^{-10} \times 10^$		
			≈ 69.87cm2
Q15	a) <wst 34°<="" td="" →=""><td>Q16</td><td>a) $\frac{3}{5} \rightarrow 1200 \text{ x} \frac{3}{5} = 720$</td></wst>	Q16	a) $\frac{3}{5} \rightarrow 1200 \text{ x} \frac{3}{5} = 720$
	$<$ RSX \rightarrow 180° - 340° - 170°		b) 12 x 20 = 240
	- 43° = 86°		720 + 240 = 960
	<tsu <math=""> ightarrow 360° - 34° - 17° -</tsu>		960 ÷ (8+12) = 48
ļ	86° - 122° = 101°		
	b) <qxv -="" 137°="" 51°="86°</td" →=""><td></td><td></td></qxv>		
	c) $\langle VXY \rightarrow 180^\circ - 86^\circ = 94^\circ$		
Q17	a) % discount →		
	$\frac{\$25.80-\$19.35}{\$25.80} \times 100\% = 25\%$		
	440.00		
	b) Small diss →		
	$$25.80 - \frac{$5.40}{4} = 24.45		
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