

Rosyth School Preliminary Examination 2020 Mathematics Paper 1 Primary 6

Name:	Register No.
Class: Pr 6	
Date: 25 August 2020	Parent's Signature:
Total Time for Booklets A and B :	1 hour

Booklet A

Instructions to Pupils:

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- 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 <u>8</u> 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). 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)

- Round off 80 282 to the nearest tenth.
 (1) 80
 (2) 80.2
 (3) 80.3
 (4) 80.28

 2 Express 6 + 10f 4 + 2f in the simplest form.
 - (1) 12f + 2
 - (2) 12f + 10
 - (3) 14*f* 4
 - (4) 18*f*-4
- 3 The average amount of money saved by Annie and Ben was \$36. Annie saved three times as much as Ben. How much did Ben save?
 - (1) \$9
 - (2) \$18
 - (3) \$54
 - (4) \$72

(Go on to the next page)

2

4. What is the length of the pencil in the figure below?



5 What is the possible mass of the watermelon in the figure below?

(1) 6.5 g

.

. .

. .

. .

- (2) 65 g
- (3) 6.5 kg
- (4) 65 kg



6 Weng is facing East.
He turns 225° in a clockwise direction.
He then turns 45° in an anti-clockwise direction.
Which direction is he facing now?

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

Which two lines are perpendicular to each other?



- (1) AB and CD
- (2) GH and IJ
- (3) EF and IJ
- (4) GH and EF

(Go on to the next page)

8 In the figure below, ABCD is a trapezium. EDC is a straight line. AB is parallel to DC. Find ∠DAB.



- (1) 22°
- (2) 32°
- (3) 42°
- (4) 68[°]
- 9 The figure below is made up of 3 straight lines. Find $\angle w$.



- (1) 66°
- (2) 80°
- (3) 100°
- (4) 104°

10 The table below shows the rental fees for skates.



Cedelle rented a pair of skates from 10 am to 12 noon. How much did she pay?

(1) \$16

. .

(2) \$20

. .

- (3) \$22
- (4) \$32

11 A number when divided by 10 gives a remainder of 7. Which of the following can be added to the number to change it to a multiple of 5?

- (1) 5
- (2) 2
- (3) 3
- (4) 4

12 Mr Lim had \$100. He bought 2 crabs which cost \$30.50 each and some fishes which cost \$23.70. How much money had he left?

- (1) \$15.30
- (2) \$45.80
- (3) \$84.70
- (4) \$184.70

6

- 13 Mdm Rosie sold only roses on Mother's Day. She sold 200 stalks of them in the morning and $\frac{2}{5}$ of the remainder in the afternoon. After that, she had $\frac{1}{2}$ of the roses left. How many stalks of roses did she sell in the afternoon ?
 - (1) 400
 - (2) 600
 - (3) 1000
 - (4) 1200

14 The figure below is made up of 4 identical circles inside a square. The length of the square is 28 cm. Find the perimeter of the shaded part. (Take $\pi = \frac{22}{7}$)

- (1) 88 cm
- (2) 102 cm
- (3) 116 cm
- (4) 144 cm



15 A survey was conducted to find out the favourite snack of a group of 50 children. They could only pick one type of snack and each type was picked by at least one child.

The table below showed the results of the survey. Given that the most popular snack is Mamee Monster and the least popilar snack was prawn crackers, what was the greatest number od children who picked Potato chips ?

Favourite snacks

Mamee Monster	Potato Chips	Prawn Crackers	Chocolates
24	?	3	

- (1) 19
- (2) 23
- (3) 27
- (4) 4

Continue to Booklet B

-



Rosyth School Preliminary Examination 2020 Mathematics Paper 1 Primary 6

Name:	Register No
Class: Pr 6	Group No.:
Date: <u>25 August 2020</u>	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	

* This booklet consists of <u>9</u> pages (including this cover 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. in this space For questions which require units, give your answers in the units stated. All diagrams in this paper are not drawn to scale unless stated otherwise. (20 marks) Find the value of $7 \div 8$. Give your answer correct to 2 decimal places. 21 Ans: The figure below, not drawn to scale, is formed using 2 identical squares, 22 2 identical large equilateral triangles and 2 identical small equilateral triangles. The length of the square is 15 cm. Find the perimeter of the figure. 15 cm Ans <u>:</u> _____ cm .



5

Bridget is 12 years old now. Her cousin is y years younger than her. Find their combined age 5 years later in terms of y.

Do not write in this space

Ans : _____

26 The table below shows the month of April in one year. Mr Osman plans to attend a course 38 days after 12 April. Which day will he be attending the course?

April						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

Ans : ____

Do not write in this space

27 James cuts out a square and a triangle from a rectangular strip of paper as shown below. Square ABCD has an area of 81cm². Square ABCD has same the perimeter as Triangle XYZ.XY is 12 cm and XZ is 14 cm.Find the area of Triangle XYZ.



28

In the square grid, PQ is a straight line.

PQ forms one side of a rhombus PORS____

Complete the drawing of the rhombus PQRS. Label the points R and S.



29 The figure below is made up of a parallelogram ABOE and a trapezium BCDO. \angle EAB = 112° and \angle OBC = 138°. Find \angle EOD.



30 At a carnival, 5 boys played darts at 2 stations from 9 a.m. to 10.30 a.m. At any time, 2 of them played while the other 3 boys watched. If each of them had the same amount of time playing darts, how many minutes did each boy play the game?

Do not write in this space



9

Ans :

min



Rosyth School Preliminary Examination 2020 Mathematics Paper 2 Primary 6

Name:

Class: Pr 6-____

Register No.

Group No: _____

Date: 25 August 2020

Parent's Signature:

Time: 1 h 30 min

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 17	45	

Section	Maximum Mark	Marks Obtained
Paper 1	45	<u>.</u>
Paper 2	55	
Total	100	

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.

Do not write in this space

(10 marks)

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

1. Uncle Bob sells bubble tea at \$6.30 per cup of 700 ml. He only sells one size of bubble tea at his stall. Uncle Bob wants to make \$1000 a day. What is the minimum number of cups he must sell?

Ans : _

2. Miss Lee bought $\frac{8}{9}$ kg of butter. $\frac{1}{3}$ kg of butter was needed to bake a cake. She wanted to bake the greatest possible number of cakes.

Each of the statements below is either true, false or not possible to tell from the information given. For each statement, put a tick (\checkmark) to indicate your answer.

Statement	True	False	Not possible to tell
The greatest number of cakes Miss Lee could bake was 2.	от - Алиссионаларона - т 		
After baking, Miss Lee had $\frac{2}{3}$ kg of butter left.			

3. The solid below is made up of 11 cubes.



Do not write in

this space

Side View

٠	*	•	•	•	٠	•	-	
•	•	•	•	•	•	•	٠	
*	-	-	-	P	₿ ₽	٠	•	
	•	•	٠	-		•	•	
•					-	_	_	

(b) Norah painted the whole solid including the base. Then she took it apart into its 11 cubes. How many of the cubes have 2 of the faces painted?

Ans : ___



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.

Do not write in this space

(45 marks) All diagrams in this paper are not drawn to scale unless stated otherwise.

A sum of money was shared among three girls, Maggie, Alice and Cecilia.

- Maggie received \$*m*. Alice received twice as much money as Maggie. Cecilia received \$55 less than Alice.
 - (a) Express the amount of Cecilia's money in terms of m.
 - (b) If m = 35, find the total sum of money shared by the three girls.

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





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A rectangular tank measuring 60 cm long by 15 cm wide by 40 cm high was $\frac{1}{3}$ filled with water at first. Devi filled 4 identical bottles with water to the brim. Then she poured all of the water from the bottles into the rectangular tank and the tank became $\frac{3}{4}$ full. What was the capacity of each bottle?

Do not write in this space



Ans :

.

[3]

9.



Alex and Benjamin were each given some stickers. Alex had four times 11. as many stickers as Benjamin. After Alex gave away 203 stickers and Benjamin gave away 26 stickers, Benjamin had three times as many this stickers left as Alex. How many more stickers did Alex have than Benjamin at first?

Do not write in space

Ans :

[4]

2. Mel has a total of 648 black and white buttons. He has 360 more black buttons than white buttons. He puts all the black buttons equally into empty black boxes and puts all the white buttons equally into empty white boxes. There are thrice as many black boxes as white boxes. Each black box contains 4 more buttons than each white box. How many buttons are there in each white box?

. .

Do not write in this space

Ans : _____

[4]

.



14. The figure below shows a rectangle and 11 identical shaded circles. Each shaded circle is in contact with those next to it. The rectangle has a perimeter of 384 cm.

Do not write in this space



- a) Find the radius of one circle.
- b) More identical shaded circles are added. The whole rectangle is then covered with a maximum number of shaded circles. Find the area of the rectangle that is not covered by the shaded circles.

$$(Take \pi = \frac{22}{7})$$





Yanti decorated the sides of a rectangular board with 16 buttons. The buttons were placed at an equal distance apart along all the sides of the board. The length of the board was 210 cm. The figure below shows part of her layout.

Do not write in this space



- What was the breadth of the rectangular board? a)
- b) After that, Yanti decided to use a combination of ribbons and buttons. She spent $\frac{1}{4}$ of her money on 16 buttons and 4 ribbons. The cost of each ribbon is twice the cost of each button. Yanti bought some more ribbons with $\frac{1}{2}$ of her remaining money. How many ribbons did she buy altogether in the end ?



16.

17. Mdm Yap sold some T-shirts in March. The table belows shows the number of T-shirts sold for size S and L but not size M and XL.

Size of T-shrt	Number of T-shirt		
S	80		
M	?		
L	400		
XL	?		

Do not write in this space

- (a) 50% of the T-shirt were in size L. The ratio of the number of T-shirt in size M to size XL is 5 : 11. How many of the T-shirts were in size M?
- (b) Mdm Yap sold all of her T-shirts in the size of S at the usual price and and all of her T-shirts in size M at a discount of 25%. She received a total of \$1620 from the sale. The amount of money she received from the sale of the T-shirt in size M was \$180 more than the sale of T-shirt in size S. What is the price difference in the cost of a T-shirt in size S and a T-shirt in size M at their usual price?

Ans: a) [2] b) _____

[3]

End of paper Have you checked your work?

SCHOOL : ROSYTH PRIMARY SCHOOL

LEVEL : PRIMARY 6

SUBJECT : MATH

TERM : 2020 PRELIM

PAPER 1 BOOKLET A

Q 1	Q2	Q3	· Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	1	2	2	3	4	4	2	2	3
	L	L	• • •	•	- ·		L	•	

Q 11	Q12	Q13	Q14	Q15
3	1	1	3	1

PAPER 1 BOOKLET B



·····	And and a second s	
Q25)	(34 – y)	
Q26)	Fri	
Q27)	45cm2	
Q28)		
Q29)	154° -	
Q30)	36 min	
L	L	

.. •

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PAPER 2

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Q1)	\$1000÷ \$6.30 = 158 R \$460
	158 + 1 = 159
Q2)	True
(42)	False
Q3)	a)
	· · · · · ·
	b)2
	$a = 200 - 425 = 225^{\circ}$
Q4)	a = 360 – 135 = 225°
Q5)	21 and 63
Q6)	$A 2 \times m = (2m)$
	C \$(2m) - \$55 = \$(2m - 55)
	\$35 + \$(2 x 35) + \$ (2 x 35 – 55) =\$120
	- 4 1 2 0

07	¢42 E0 x 2 1 ¢2E	٦
Q7)	\$12.50 x 2 + \$25 \$25 - \$15 = \$10	
	\$15 - \$10 = \$5	
	$$45 \div 5 = 9$	
	9 x \$15 = 135	
Q8)	r20cm ÷ 2 = 10cm	-
	area of 1 🖤 ¼ x 10 x 10 x 3.14 = 78.5	
	½ x 10 cm x 10cm = 50cm2	
	½ x 20cm x 20cm = 200cm2	
	200cm2 – 50cm2 – 78.5cm2	
•	= 71.5cm2	
Q9)	$\frac{5}{12}$ x 40 x 15 x 60 = 15000	-
	12 15000 ÷ 4 = 3750ml	
010)	ADG = 90 - 33 = 57	_
Q10)	EDA = 90 - 57 = 33	
	X = 180 - 90 - 33 = 570	
	$P = 570 + 90^{\circ}$	
	F = 370 + 50	
Q11)	12u - 609 = 1u - 26	-
	11u583 ÷ 11 = 53	
	4u – 1u = 3u	
	3u 3 x 53 = 159	
Q12)	540 ÷ 3 = 168	-
	168 – 144 = 24	
	$24 \div 4 = 6$	
	$144 \div 6 = 24$	
Q13)	a)Mar and Apr	_
	b)350	
	c)140%	
Q14)	a)8cm	
,	b)1920cm2	
Q15)	43°	
]

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in the second

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	a)126cm	
	b)22	-
Q17)	a)100 b)\$3	
	b)\$3	

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Pg4

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