

ROSYTH SCHOOL 2019 PRELIMINARY EXAMINATION MATHEMATICS PRIMARY 6 PAPER 1

Name:	Register No
Class: Pr 6 -	
Date: 27 August 2019	Parent's Signature:
Total Time for Booklets A and B	: 1 hour

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 8 pages (including this cover page).

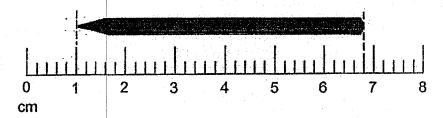
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

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

(20 marks)

- 1. Round 263 547 to the nearest hundred.
 - (1) 260 000
 - (2) 263 500
 - (3) 263 550
 - (4) 264 000

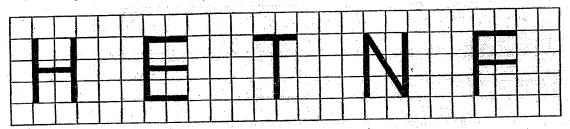
2.



What is the length of the pencil?

- (1) 5.4 cm
- (2) 5.8 cm
- (3) 6.4 cm
- (4) 6.8 cm

- 3. Find the value of $\frac{5y+12}{6}$ when y = 6.
 - (1) 7
 - (2) 10
 - (3) 17
 - (4) 32
- 4. Troy took 2 h 15 min to bake a cake. He started baking at 11.35 a.m. What time did he finish baking?
 - (1) 1.00 p.m.
 - (2) 1.15 p.m.
 - (3) 1.35 p.m.
 - (4) 1.50 p.m.
 - 5. How many letters below have both parallel and perpendicular lines?

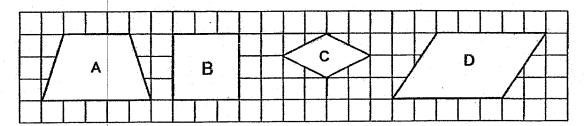


- (1) 5
- (2) 2
- (3) 3
- (4) 4

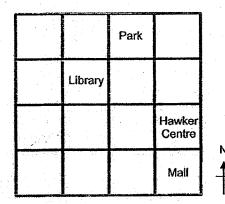
6. Karen is thinking of a quadrilateral.

Using the clues below, which of the following shapes, A, B, C, or D is Karen thinking of?

- Clue 1: It has two pairs of parallel sides.
- Clue 2: Not all angles are the same size.
- Clue 3: Not all sides are the same length.



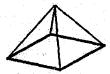
- (1) A
- (2) B
- (3) C
- (4) D
- 7. The square grid below shows the plan of a town.



Which direction is the library from the mall?

- (1) North-east
- (2) South-west
- (3) North-west
- (4) South-east

- 8. A machine can print 80 cards in 3 minutes. At this rate, how many cards can it print in 1 hour?
 - (1) 240
 - (2) 1 600
 - (3) 4800
 - (4) 14 400
- 9. The figure below shows a pyramid.

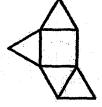


Which of the following is not a net of the pyramid?

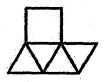
(1)



(2)



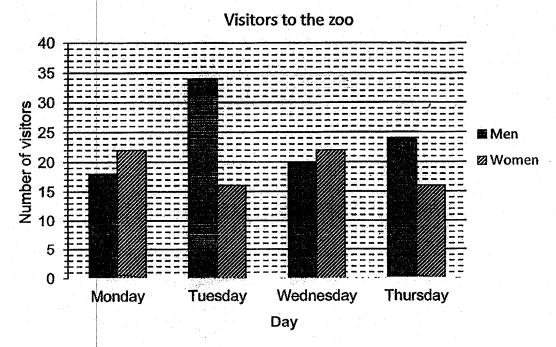
(3)



(4)

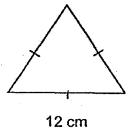


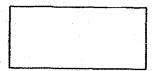
10. The graph shows the number of visitors at the zoo from Monday to Thursday. On which two days were there the same number of visitors at the zoo?



- (1) Monday and Tuesday
- (2) Monday and Thursday
- (3) Wednesday and Thursday
- (4) Tuesday and Thursday
- 11. Andrea had 24 more stamps than Bella. When Bella gave 18 stamps to Andrea, Andrea had 4 times as many stamps as Bella. How many stamps did Bella have at first?
 - (1) 14
 - (2) 20
 - (3) 32
 - (4) 38

- 12. An electronics store sold $\frac{5}{8}$ of their television sets in the morning, $\frac{1}{3}$ of the remaining television sets in the afternoon and the rest of the television sets in the evening. What fraction of the television sets were sold in the evening?
 - $(1) \quad \frac{1}{4}$
 - (2) $\frac{2}{3}$
 - (3) $\frac{1}{24}$
 - (4) $\frac{5}{24}$
- 13. The equilateral triangle and the rectangle shown below have the same perimeter. The length of the rectangle is twice its breadth. The side of the triangle is 12 cm. What is the area of the rectangle?





- (1) 9 cm²
- (2) 24 cm²
- (3) 72 cm²
- (4) 81 cm²

	44 * * * * * * * * * * * * * * * * * *											
	(1)	\$3.10										
·	(2)	\$4.65										
	(3)	\$6.20										
	(4)	\$9.30	•									
15.	ml o Sund new	e bought a f washing day, she us bottle on rgent?	detergen ed 50 ml	t eac	h day f ashing d	rom M eterge	onday nt each	to Fri day.	day. C If Clair	n Sa e stai	iturda rted u	ay and using a
15.	ml o Sund new	f washing day, she us bottle on	detergen ed 50 ml	t eac	h day f ashing d	rom M eterge	onday nt each	to Fri day.	day. C If Clair	n Sa e stai	iturda rted u	ay and using a
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ROSYTH SCHOOL 2019 PRELIMINARY EXAMINATION MATHEMATICS PRIMARY 6 PAPER 1

Name:	Register No	
Class: Pr 6	Group:	
Date: 27 August 2019	Parent's Signature:	
Total Time for Booklets A ar	nd 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 9 pages (including this cover page).

Questions 16 to 20 carry 1 mark each. 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 All diagrams in this paper are not drawn to scale unless stated otherwise. (5 marks) 16. Find the value of 8.2 - 2.33. Ans: Express 6 minutes as a percentage of 2 hours. 17. Ans: In the grid below, draw two straight lines to form a symmetric figure with 18. AB as the line of symmetry.

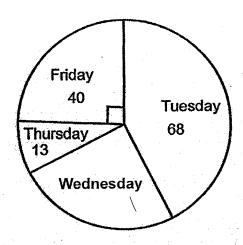
В

19. A rectangular container measuring 10 cm by 20 cm by 37 cm is $\frac{1}{4}$ filled with water. Find the volume of water in the container.

Do not write in this space

Ans:	cm ³
	The state of the s

20. The pie chart below shows the number of cakes sold at a shop from Tuesday to Friday.



The number of cakes sold from Tuesday to Friday is also represented by the table below. Find the number of cakes sold on Wednesday.

Day	Number of cakes sold
Tuesday	68
Wednesday	?
Thursday	13
Friday	40

A			
Ans:		1.0	
			

Questions 21 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.

Do not write in this space

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

21. Miss Teo gave her sudents some sweets. If she gave each student 4 sweets, there were 3 sweets left over. If she gave each student 6 sweets, she was short of 1 sweet. What was the smallest possible number of sweets that Miss Teo gave her students?

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110	 			 	- 1	. "	

22. The table below shows the marks that Hayden scored for 4 subjects in the SA1 examinations.

Subject	Marks
English	72
Mathematics	65
Mother Tongue	?
Science	80

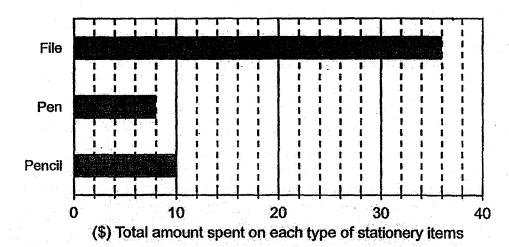
Hayden scored an average of 72 marks for the 4 subjects. How many marks did he score for his Mother Tongue?

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23. Muthu bought 3 types of stationery items for his office. The prices are given in the table below.

Type of stationery item	Price per item
Pencil	\$0.50
Pen	\$2.00
File	\$4.00

The bar graph shows the total cost spent on each type of stationery items.



What is the total number of stationery items bought by Muthu?

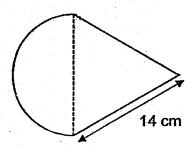
Ans:

Do not write in this space

24. The figure below is made up of a semi-circle and an equilateral triangle.

Find the perimeter of the figure. Take $\pi = \frac{22}{7}$.

Do not write in this space



Ans: _____cm

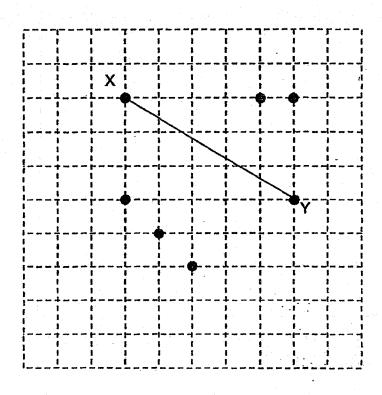
25. In a 100 m race, when Patrick reached the finishing point, he was 20 m ahead of Raj and 40 m ahead of Salim. All the boys did not change their speed throughout the race. How far had Salim run when Raj reached the finishing point?

Ans: _____m

26. In the square grid below, XY is a straight line.

Draw an isosceles triangle XYZ using one of the given points as point Z.

Do not write in this space



27. A total of 77 people are standing in a queue for concert tickets. There are at least 3 women in between every 2 men. What is the largest possible number of men in the queue?

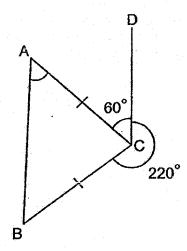
Ans:

28. Mdm Farah baked an equal number of cupcakes and cookies. After she sold 32 cupcakes and 20 cookies, the number of cupcakes left was $\frac{4}{7}$ of the number of cookies left. How many cookies did she bake at first?

Do not write in this space

Ans:

29. In the figure, ABC is an isosceles triangle. \angle BCD = 220° and \angle ACD = 60°. Find \angle BAC.



Ans: ____°

On Monday, Alynna has \$90 while Rachel has \$10 in each of their savings account. On Tuesday, both Alynna and Rachel start saving a fixed amount daily. Rachel saves \$2 more than Alynna each day. After 10 days Alynna has twice as much money as Rachel. How much does Alynna save each day?	Do not write in this space
Alythia save each day?	
Ans: \$	L
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End of paper



ROSYTH SCHOOL 2019 PRELIMINARY EXAMINATION MATHEMATICS PRIMARY 6 PAPER 2

Name:	Register No.
Class: Pr 6	
Date: 27th August 2019	Parent's Signature:
Time: 1h 40mins	

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	
Ī	Q 6 to 18	45	

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

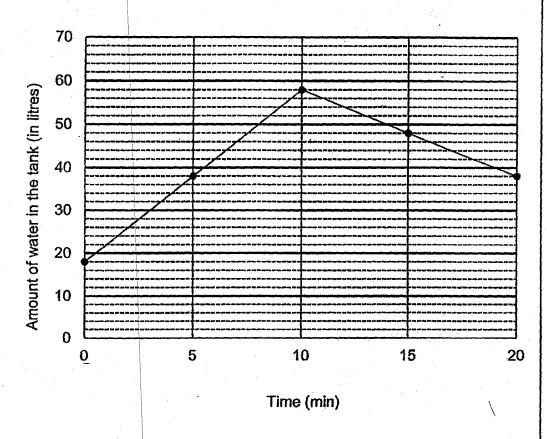
^{*} This booklet consists of 15 pages (including this cover page)

ques	ided for each	question	marks each. Show your working clearly in the space and write your answers in the spaces provided. For nits, give your answers in the units stated.	or in this spac
			(10 mar)	(S)
All d	iagrams in th	is pape	er are not drawn to scale unless stated otherwise.	
1.		d 8 more	s. He had half as many marbles as Amanda. e marbles than Raju. How many marbles did they	
, .		-		
,				
• • .			Ans:	
			_	
2.	James has	as mar	ny sweets as Ahmad and $\frac{4}{5}$ as many sweets as	
	Muthu. The	y have a	a total of 325 sweets. How many sweets does Muthu	l et e
*	have?			
				: * * * * * * * * * * * * * * * * * * *
	the second second			

Ans:cm² In an examination hall, the tables were arranged in such a way that there were 15 rows with 30 tables in each row on Day 1. On Day 2, 8 tables were removed from each row and the remaining tables were then rearranged such that there were 33 tables in each row. Statement True False Not possible to tell a) There were 442 tables left on Day 2. b) There were 10 rows of tables on Day 2.	е	quilatera	tical triangle al triangles a	s shown	below. Th	e area of th	e shaded	ller identical part is	Do not w in this sp
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b) There were 10 rows of tables on	. W	vere 15 r vere rem	ows with 30 loved from e ed such that	tables in each row of there we	each row and the rei	on Day 1. maining tab	On Day 2, les were t	8 tables hen Not possible	
			,			- 	<u> </u>		
		a) There	were 442 ta	ables left	on Day 2.				

5. A rectangular tank was filled with some water at first. Tap A was first turned on to add more water into the tank for 20 minutes. After 10 minutes, Tap B was then turned on to drain water out of the tank until the 20th minute. The line graph shows the volume of water in the tank over the period of 20 minutes.

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How many litres of water did Tap B drain out?

Ans:

quest availa	uestions 6 to 18, show your working clearly in the space provided for eation and write your answers in the spaces provided. The number of marble is shown in brackets [] at the end of each question or part-question. Find the which require units, give your answers in the units stated.	ks	Do not write in this spac
All di	agrams in this paper are not drawn to scale unless stated otherwise.		
	(50 mark	(S)	
6.	$\frac{1}{3}$ of Julie's money was equal to $\frac{3}{5}$ of Nancy's money. After Julie gave		
	Nancy \$42, both of them would have the same amount of money. How much money did Nancy have at first?		
•			
	Ans:	[3]	
7.	Andy had just enough ribbon to cut into 45 shorter pieces of equal length		
.•	However, if he cut the ribbon into 37 pieces of equal length, he would have 5.04 m of ribbon left. What was the length of ribbon?	•	·
		,	
	Ans: _	[3]	

8. Tony wants to sell a laptop. The table shows the prices of the same laptop from his shop and Shop Y.

Do not write in this space

Tony's	shop	Shop Y			
Original Price	% Discount	Original Price	% Discount		
\$ 3 500	?	\$4 000	30%		

Tony wants to price his laptop at the same selling price as Shop Y. How much percentage discount must be give to match Shop Y's selling price?

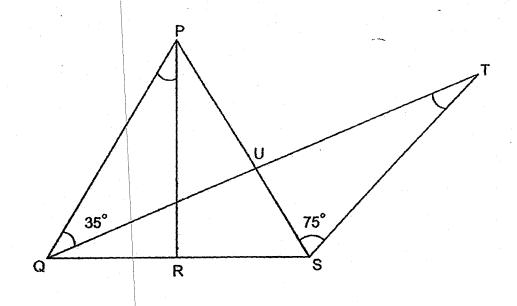
Ans: [3]

9.	at 6.00 p.m.	s house for Z If Alfred wal gs at a speed between Alf	ks at a sp d of 80 m	peed of 6 /min, he	0 m/min will be 6	, he will	be 16 r	ninutes		Do not of this s	
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10. In the diagram below, PQS is an equilateral triangle. QT is a straight line. $PR \perp QS$, $\angle PQV = 35^{\circ}$ and $\angle PST = 75^{\circ}$. Find

Do not write in this spac

- (a) ∠QPR
- (b) ∠QTS

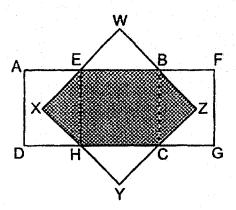


Ans: (a)_____[1]

(b)_____[2]

11. The figure consists of 2 identical rectangles, ABCD and EFGH, overlapping one another. Both WXYZ and EBCH are squares. The area of each rectangle is 306 cm². 40% of the whole figure is shaded. The unshaded area of the whole figure is 324 cm². What is the ratio of the area of triangle EXH to the area of ADGF?

Do not write in this space

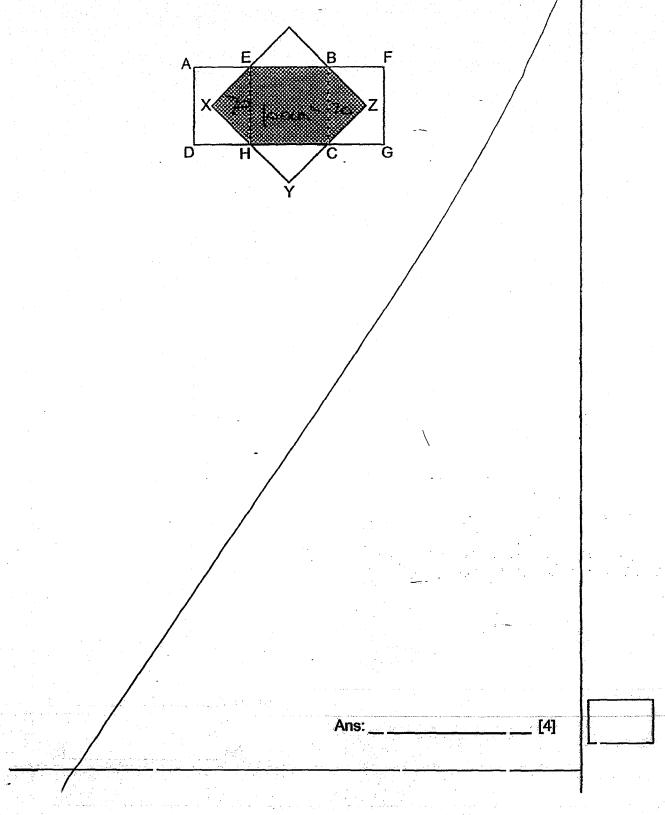


\ns: [4]

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11. The figure consists of 2 identical rectangles, ABCD and EFGH, overlapping one another. EBCH is a square. The area of each rectangle is 280 cm². 40% of the whole figure is shaded. The unshaded area of the whole figure is 360 cm². What is the ratio of triangle EXH to the area of ADGF?

Do not write in this spac



de	ecrease from the i	ors to a zoo was 152 880 in July. This was a 16% number in June. The number of people who visited the a 20% increase from the number in July.	Do not write in this space
(a) W	hat was the total	number of people who visited the zoo in June?	
	hat was the perce oo in August comp	entage increase in the number of people who visited the pared to June?	

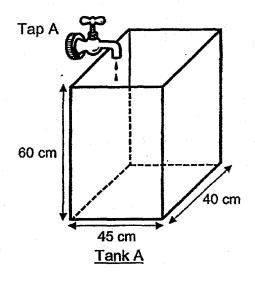
[2]

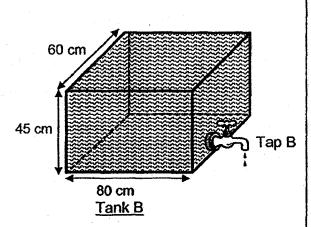
[2]

13. The diagram below shows 2 tanks Tank A and Tank B of different dimensions. Tank A is completely empty while Tank B is filled with water to the brim.

Do not write in this space

- (a) Find the volume of water in Tank B.
- (b) Water from Tap A flows at a rate of 2.7 litres per minute while water drains from Tap B at a rate of 2.4 litres per minute. Both taps are turned on at the same time. After some time, the height of the water level in both tanks becomes the same. Find the height of the water level at this point of time.



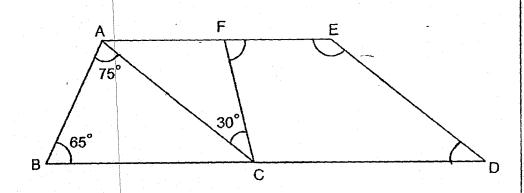


Ans: (a) _____[1]

Do not write in this space

14. In the figure, ABDE is a trapezium and AC // ED. Find

- (a) ∠CFE
- (b) ∠FED



Ans: (a) _____[2]

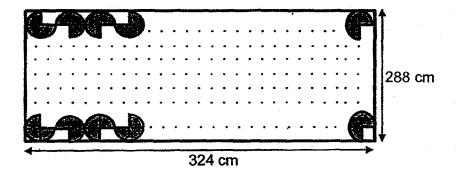
(b)_____[2]

15. Mrs Raju wanted to decorate the bulletin board with some circular pieces of paper. The diameter of each circular paper was 12 cm. She cut all the circular pieces of paper into quadrants and decorated the entire bulletin board using all the quadrants, following the pattern shown below. There was no gap between each piece of quadrant.

Do not writi in this spac



How many pieces of circular paper did she use to decorate the bulletin board?



Ans: _____[4]

16. There were 200 more apples than pears at a fruit stall. After $\frac{1}{4}$ of the apples and $\frac{2}{7}$ of the pears were sold, there were 170 more apples than pears left.

Do not write in this space

- (a) How many apples were there at the fruit stall at first?
- (b) How many pears were left at the fruit stall in the end?

Ans: (a) _____ [3]

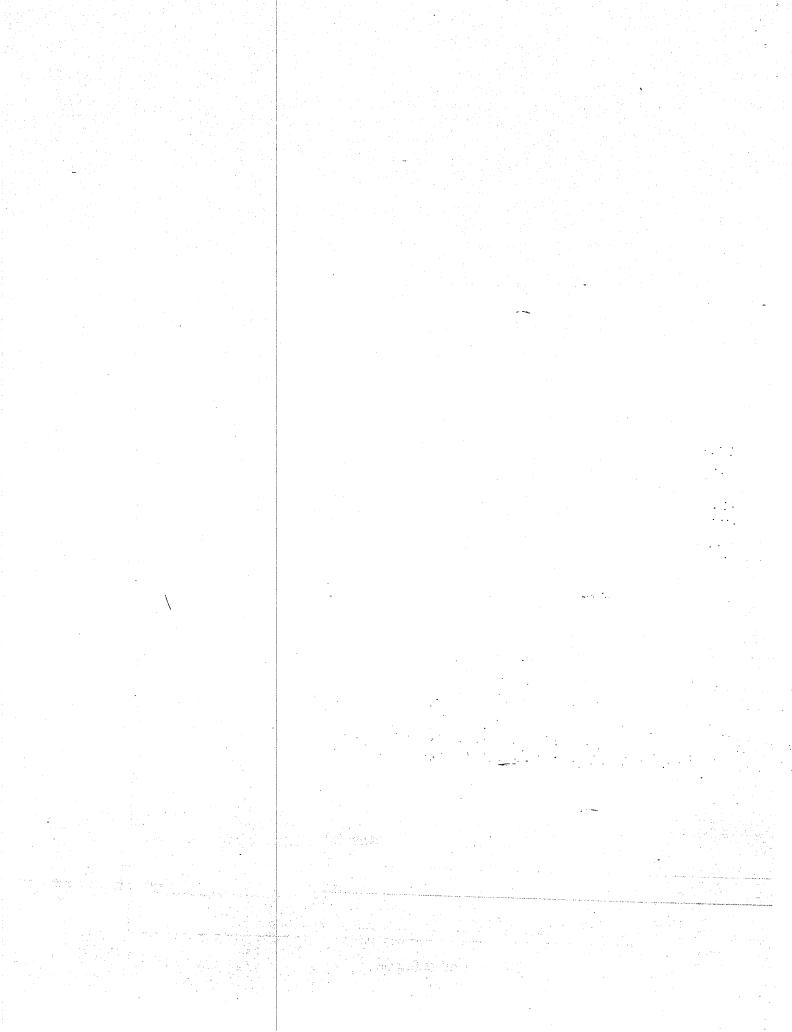
(b) _____[2]

17. A chef prepared some fishballs for the guests during a birthday party. 60% of the guests were children. Among the children, the ratio of the number of girls to the number of boys is 5:3. A total of 9 408 fishballs were prepared so that each adult got 5 fishballs and each child got 6 fishballs. There were no fishballs left after the party.

Do not write in this space

- a) What was the ratio of the number of fishballs the adults got to the number of fishballs the children got?
 Give your answer in the simplest form.
- b) How many boys attended the party?

Ans: (a)		[3]	
(h)	a MANY was a reason and a shadow a speciment of the charge of the shadow and a shadow of the charge	[2]	
(0)—	The state of the s	1-1	



SCHOOL:

ROSYTH PRIMARY SCHOOL

LEVEL

PRIMARY 6

SUBJECT:

MATH

TERM

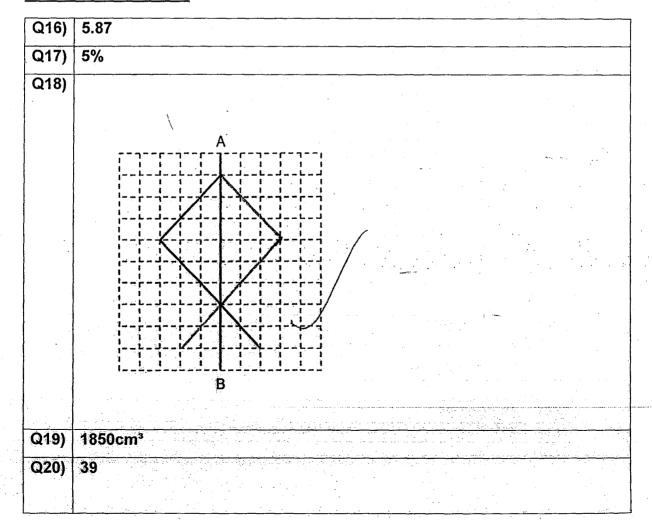
2019 PRELIM

PAPER 1 BOOKLET A

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	2	1	4	3	4	3	2	3	2

Q 11	Q12	Q13	Q14	Q15
4	1	3	4	4

PAPER 1 BOOKLET B



. <u> </u>		
Q21)	6-4=2	
	3+1=4	
	$4 \div 2 = 2$	
	2 x 4 = 8	
	8 + 3 = 11 sweets	
Q22)	$72 \times 4 = 288$	
	288 – 72 = 216	
	216 – 65 = 151	
	151 – 80 = 71 marks	
Q23)	$36 \div 4 = 9$	
	8 ÷ 2 = 4	
	$10 \div 0.50 = 20$	
	9 + 4 + 20 = 33	
Q24)	$\frac{1}{2} \times \frac{22}{7} \times 14 = \frac{22}{7} \times 7 = 22$	
	22 + 14 + 14 = 22 + 28 = 50 cm	
COE		
Q25)	80 : 60	
	4:3	
	100 : 75m	
Q26)		
QZOJ		
		\
	×	
1		
	h	
Q27)	77 ÷ 4 = 19R1	and the second of the second o
	19 x 1 = 19	
	19 + 1 = 20 men	
Q28)	48 cookies	
Q29)	50°	
Q30)	\$3	
	,我们就是我们的,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人。""!"	그는 생님들이 되는 것이 되었다면 되었다면 하는 것이 되었다면 하는 것이 되었다면 되었다면 되었다면 살아 되었다

PAPER 2

Q1)	Joel6p	-
	Amanda12p	
	Rajv 12p – 8	
	6p + 12p + 12p - 8 = (30p - 8) marbles	
Q2)	25u = 325	
	$1u = 325 \div 25 = 13$	
	5u = 13 x 5 = 65 sweets	
Q3)	6u = 78	
	$1u = 78 \div 6 = 13 \text{ cm}^2$	
Q4)	a)False	
	b)True	
Q5)	38 – 18 = 20	
	5 mins 20	
	10 mins 20 x 2 = 40	
	58 + 40 = 98	
	98 – 38 = 60L	
Q6)	$\frac{1}{3}J = \frac{3}{5}N$	_
	3 5 7	
	3 1 3 1	
	$\frac{3}{9} J = \frac{3}{5} N$	
	42 x 2 = 84	
	9u - 5u = 4u	
	4u = 84	
	1u = 84 ÷ 4 = 21	
	5u = 21 x 5 = \$105	
Q7)	45 – 37 = 8	
٠.	8 pieces →5.04m	
	1 piece →5.04m ÷ 8 = 0.63m	
	45 pieces →0.63m x 45 = 28.35m	
3 8)	$\frac{7}{10} \times 4000 = 2800$	
	3500 - 2800 = 700	
	$\frac{700}{3500}$ x 100% = 20%	
	【10000000 10000000 10000000000000000000	
1		

Q9)	60u + 600 = 80u
	20u = 600
	$1u = 600 \div 20 = 30$
	$30 \times 80 = 2400 \text{m}$
Q10)	a) <tqs <math="" =="">60 - 35 = 25</tqs>
	<QVR = 90 - 25 = 65
	$<$ PVQ = $(360 - 65 - 65) \div 2 = 115$
	<qpr -="" 115="30°</th" 180="" 35="" ==""></qpr>
	b) $<$ QTS = $180 - 25 - 60 - 75 = 20^{\circ}$
Q11)	60% -→324
	10% -→324 ÷ 6 = 54
	100% →54 x 10 = 540
	$40\% \rightarrow 54 \times 4 = 216$
	216 ÷ 6 = 36
	$36 \times 4 = 144$
	144 + 324 = 468
	36:468 = 1:13
Q12)	a)84% →152880
Ť	1% →152880 ÷ 84 = 1820
	100% →1820 x 100 = 182000 (June)
	$b)\frac{12}{10} \times 152880 = 183456 $ (August)
	10 X 132500 - 105450 (August)
	183456 - 182000 = 1456
	$\frac{1456}{182000} \times 100\% = 0.8\%$
	162000
Q13)	$a)80 \times 60 \times 45 = 216000$
	b)33 ³ / ₄
•	
Q14)	a) $<$ ACB = $180 - 75 - 65 = 40$
	<fac -="" 180="" 65="" 75="40</th" ==""></fac>
	<afc -="" 180="" 30="110</th" 40="" ==""></afc>
	< CFE = 180 - 110 = 70°
	b) <fed -="" 180="" 40="140°</th" ==""></fed>
Q15)	288 ÷ 12 = 24
~ ' \	$324 \div 12 = 27$
	27 x 24 = 648
	$648 \div 4 \times 3 = 488$

Q16)	a)760
	b)400
Q17)	a)5: 9 b)378 boys

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