

Rosyth School Continual Assessment 1 2017 Primary 6 Mathematics

Name:	Register No
Class: Pr 6	
Date: 2 March 2017	Parent's Signature:
Total Time for Booklets A and	B : 50 minutes
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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.
- Answer all questions.

Section	Maximum Mark	Marks Obtained
Paper 1 (Booklet A)	20	

*This booklet consists 7 printed pages (including this cover page)

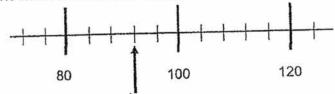
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Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

All diagrams in this paper are not drawn to scale.

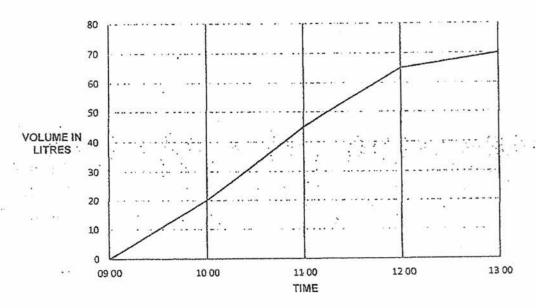
(20 marks)

In the number line below, what is the number indicated by the arrow?



- (1) 83
- (2) 86
- (3) 92
- (4) 98
- 2. Which of the following fractions is the furthest from 1?
 - (1) $\frac{5}{9}$
 - (2) $\frac{5}{11}$
 - (3) $1\frac{1}{2}$
 - (4) $1\frac{2}{5}$
- 3. Liling and Siti spent some money on stationery. Siti's spending was $\frac{3}{5}$ of what Liling had spent. What was the ratio of Siti's spending to their total spending?
 - (1) 3:5
 - (2) 5:3
 - (3) 3:8
 - (4) 5:8

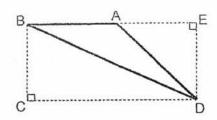
- Express 1.4% as a decimal.
 - (1) 0.014
 - (2) 0.14
 - (3) 1.04
 - (4) 1.4
- Water flowed into an empty tank from 09 00 to 13 00.
 The line graph shows the amount of water in the tank from 09 00 to 13 00.



During which one-hour period was the increase in the volume of water the greatest?

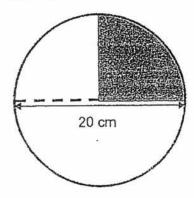
- (1) Between 09 00 and 10 00
- (2) Between 10 00 and 11 00
- (3) Between 11 00 and 12 00
- (4) Between 12 00 and 13 00

6. Which lines represent the correct pair of height and base for the triangle ABD?



	Base	Height
(1)	BE	ED
(2)	BD	BC
(3)	AD	ED
(4)	AB	BC

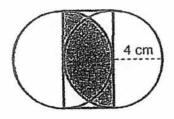
- 7. Jane saved \$m and her brother saved thrice as much money as her. Which of the following algebraic expression does not represent her brother's savings?
 - (1) \$3m
 - (2) \$m x 3
 - (3) \$3 + \$m
 - (4) m + m + m
- 8. The figure shows a circle with a diameter of 20 cm. Find the area of the shaded quadrant. Take π = 3.14



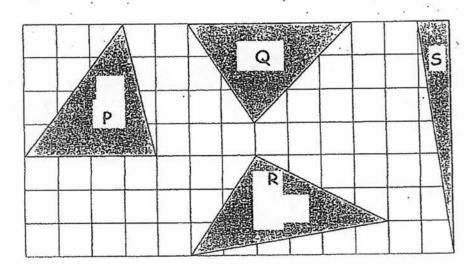
- (1) 78.5 cm²
- (2) 157 cm²
- (3) 235.5 cm²
- (4) 314 cm²

The figure is made up of 2 identical circles of diameter 8 cm. Find the area of 9. the shaded parts.

Express your answer in terms of π .

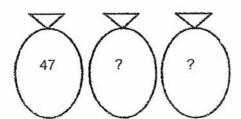


- $(8 \pi) \text{ cm}^2$ (1)
- $(8 \pi + 8) \text{ cm}^2$ (2)
- $(16 \pi) \text{ cm}^2$ (3)
- $(16 \pi + 8) \text{ cm}^2$ (4)
- Which triangles, P, Q, R and S, have the same area? 10.

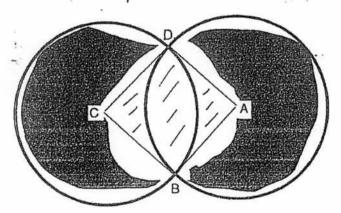


- (1) (2) Q and S
- Q and R
- P and Q
- (3) (4) P and R

- 11. Manisha collected some bookmarks and seashells. The number of bookmarks to the number of seashells was 8 : 5. There were 24 more bookmarks than seashells. What was the total number of bookmarks and seashells in her collection?
 - (1) 40
 - (2) 64
 - (3) 104
 - (4) 312
- 12. Sally's mark for a test is 80% of Krishan's mark for the same test. Krishan scored 90 marks for the test. How many more marks did Krishan score than Sally in the test?
 - (1) 10
 - (2) 18
 - (3) 20
 - (4) 28
- 13. Keith has 3 bags of marbles. Each bag has a different number of marbles. The largest number of marbles in a bag is 47. When the marbles in any 2 bags are added together, they would add up to 67, 76, and 85 marbles. What is the smallest number of marbles in one of the bags?
 - (1) 18
 - (2) 20
 - (3) 28
 - (4) 29

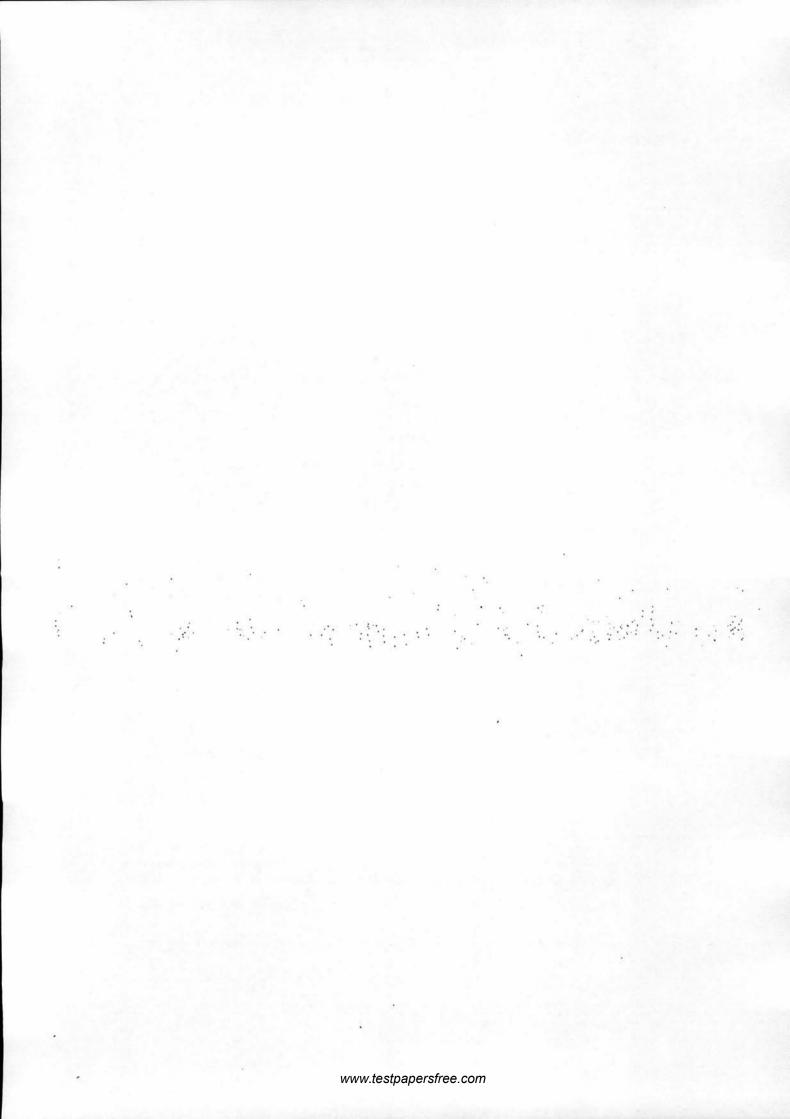


- 14. Shanise and Alynna bought a present. Shanise used $\frac{1}{3}$ of her money and Alynna used $\frac{2}{5}$ of her money to pay for the present. After paying for the present, they had the same amount of money left. What fraction of the cost of the present is paid by Alynna?
 - (1) $\frac{3}{5}$
 - (2) $\frac{4}{7}$
 - (3) $\frac{2}{11}$
 - $(4) \frac{4}{19}$
- 15. The shaded figure is formed by two identical circles with centres at A and C. ABCD is a square and length AB is 3.5 cm. Find the perimeter of the shaded figure. Take $\pi = \frac{22}{7}$



- (1) 23.5 cm
- (2) 30.5 cm
- (3) 33 cm
- (4) 47 cm

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Rosyth School Continual Assessment 1 2017 Primary 6 Mathematics

Name:	Register No
Class: Pr 6	
Date: 2 March 2017	Parent's Signature:
Total Time for Booklets A and B	3 : 50 minutes

PAPER 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	

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6. Find the value	of 182.4 ÷ 60.		
		Ans:	
7. Find the value	of $\frac{3}{4} \div 24$.		
Express your	nswer in the simplest for	m.	
a w a a		Ańs:	
18. Find the value	of $\frac{6k-2}{4}$ when $k=5$.		
		Ans:	
19. Use all the dig	its 1, 3, 9, 4 to form a nu	mber closest to 4000.	
		Ans:	

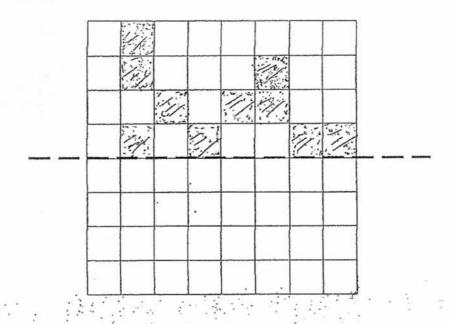
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2

20.	In a Primary 6 class, there were left, what fraction of the remaining Express your answer in the sime	ng pupils	s in the cla	irls. Whe	n 4 of the	e girls	Do not write in this space
			A	ns:			
21.	A television set cost \$500 in Ma June. What was the percentage June?	ay. The s e discour	ame telev nt given fo	vision set or the tele	cost \$38 vision se	0 in t in	
		1.	ရေး ဦး စီးတွင် ရေး			* 0	
			Α	ns:		%	
22.	The table below shows the nur his/her household.	mber of c	omputers	that eac	h student	has in	
	Number of computers per	0	1	2	3]	
	Number of pupils	5	32	4	1	1	
	How many pupils have at least				usehold?	-	
			7	Ans:	WHAT STORES		

23. In the figure drawn below, the dotted line is the line of symmetry. Shade the squares to complete the symmetrical figure in the square grid.

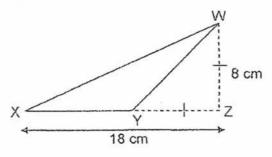
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24. Mr Teo sold (5w + 11) fruits on Friday. He sold 7w more fruits on Saturday than on Friday. What is the total number of fruits he sold on Friday and Saturday? Express your answer in terms of w in the simplest form.

Ans:

25. In the figure below, XYZ is a straight line and WZ = YZ. What is the area of triangle WXY?



Ans: cm²

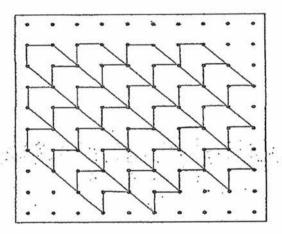
4

Questions 26 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.

(10 marks)

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

The pattern in the box shows part of a tessellation. Extend the tessellation 26. by drawing two more unit shapes in the space provided in the box.



Linda and Rani collected stickers in the ratio 5: 1. After Linda gave 20 27. stickers to Rani, their ratio became 5:7. How many stickers did Rani have in the end?

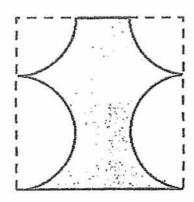
Ans:

The bar graph shows the number of points scored by Ken in 3 attempts. 28. Do not write in this space 18 16 14 Number 12 of **Points** 10 8 6 4 2 0 Third Attempt Second Attempt First Attempt After his fourth attempt, Ken managed to score a total of 44 points for all 4 attempts. How many points did he score in his fourth attempt? Ming is h years old. Ken is twice as old as him. Four years ago, Raju was 29. half of Ken's age. What is the combined age of Ming, Ken and Raju now?

Ans:

Two quarter circles and 2 semi-circles of the same radius are cut out from a Do not write 30. square piece of paper of length 15 cm. What is the perimeter of the remaining piece of paper? Express your answer in terms of π .

in this space



End of paper. Have you checked your work?



Rosyth School Continual Assessment 2017 Primary 6 Mathematics

Name:	Register No
Class: Pr 6	
Date: 2 March 2017	Parent's Signature:
Time: 1h 40min	
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PAPER

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 14 printed pages (including this cover page)

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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

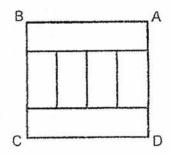
(10 marks)

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

Ali, Ben and Cindy shared the cost for a present. Ali's share of the cost to Ben's share of the cost was 4:5. Ben's share of the cost to Cindy's share of the cost was 2:3. Ali and Cindy gave a total of \$46 for the present. What was the cost of the present?

Ans: \$

2. In the figure below, the square ABCD is made up of 2 identical large rectangles of the same area and 4 identical small rectangles of the same area. The breadth of each small rectangle is equal to the breadth of each large rectangle. The area of the smaller rectangle is 21 cm². What is the area of ABCD?

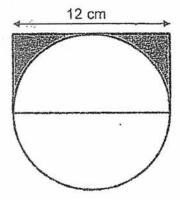


Ans: _____ cm²

3.	Belinda wanted to pack 84 apples and 90 oranges into as many bags as
	possible. The number of apples and oranges are the same in each bag. If
	all the fruits are packed, how many fruits were there in each bag?

Do not write in this space

The figure is made up of a rectangle and a circle. Find the area of the shaded parts. Take $\pi=3.14\,$ 4.



Ans: __

Do not write Ling Yan bought a bag with $\frac{2}{5}$ of her money. She then used $\frac{5}{9}$ of the in this space remainder to buy 3 files. What fraction of her money did she spend on one file? Express your answer in the simplest form.

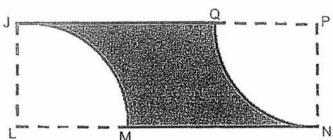
Ans: _____

Do not write For Questions 6 to 18, show your working clearly in the space provided for each in this space 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. All diagrams in this paper are not drawn to scale unless stated otherwise. (50 marks) Jolene paid \$24 for 20 muffins after a 20% discount. How many muffins 6. could she have bought with the same amount of money without the discount? There were 7 participants who took part in a quiz. Their average score was g. Later, 2 more participants joined the quiz. Each of them scored 20 mark. What was the new total score for all the participants? Express your (a) answer in terms of g in the simplest form. If g = 29, find the new average score of all the participants. (b)

8.	The figure below, not drawn to scale, is made up of a square MNOP and a rectangle PQRS. The length of the square is 9 cm and MT = 7.2 cm. Find the area of the rectangle PQRS.	Do not write in this space
	P R	
	O S N	
	Ans:[3]	
9.	Chairs were arranged in rows of 28 in the school hall. During the Chinese New Year concert, the chairs were rearranged to form rows of 24. As a result, there were 7 more rows. The last row was 4 chairs short. How many chairs were there in the hall?	

10. Two identical quarter circles of radius 14 cm were cut from the rectangular piece of wood, JLNP, as shown below. The remaining piece of wood (the shaded area) has an area of 266 cm². Find the length of MN. Take $\pi = \frac{22}{7}$

Do not write in this space



Ans:		S1 800	[3
22	***	40 St 60 Mil	-

- John cut out 4 small identical squares from a square piece of cardboard. The area of the 4 small identical squares to the erea of the remaining cardboard was 1:3. The permeter of the remaining cardboard was 320 cm.
- (a) What was the area of the cardboard?
- (b) What is the maximum number of 12-cm squares that he would be able to cut from the remaining cardboard?

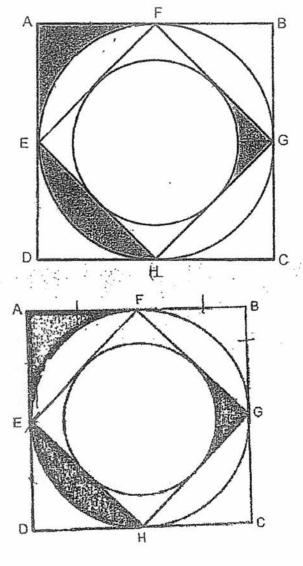
Ans (2)	 [2]
(b).	

		•		
12.	There ribbo The rand t	Do not write in this space		
	The	total length of all the green ribbons is 315	m.	
	(a)	What is the ratio of the length of all the rall the blue ribbons? Express your answ	ed ribbons to the length of er in the simplest form.	
	(b)	What is the total length of all the ribbons	?	
		**		
			•1	
			(a): [2	2]

8

13. The figure is made up of 2 squares, ABCD and EFGH, and 2 circles. The length AF = FB. The area of square EFGH is 64 cm². Find the area of the shaded parts. Round off your answer to 2 decimal places. (Use the calculator value of π)

Do not write in this space



Ans: _____[4]

Do not write $\frac{5}{12}$ of the visitors at a carnival are adults. The rest of the visitors are boys in this space and girls in the ratio of 5: 4. There are 84 more boys than girls. There are 621 females at the carnival. How many children are there at the carnival? (a) How many males are there at the carnival? (b)

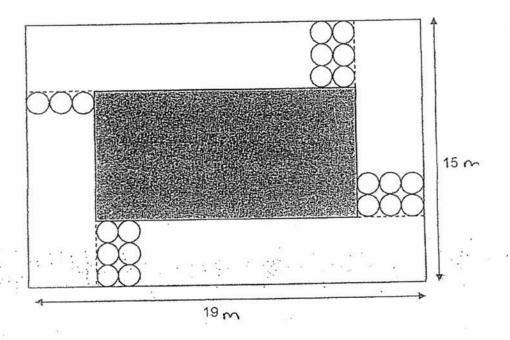
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[3]

Ans (a): _____

15. Caitlin wants to lay circular stone tiles of diameter 1 m all round a rectangular pond to create a foot path 3 m wide all around as shown below. What is the minimum number of tiles she will need? (The tiles must be arranged as shown in the diagram. They cannot overlap each other and there must be no gap between each tile.)

Do not write in this space



Ans: ______[4]

16.	Alicia	a and Clar s to make	a had a a neckla	total of 7 ice each	64 bead and kee	ds. They p the ren	each us	ed some beads.	of their	Do not write in this space
	Alicia	a had $\frac{1}{3}$	as many	beads	remaini	ng as C	lara af	ter maki	ng their	
	neck	laces. The than wha ake her ne	number	of beads	Clara u	ised to m	ake her	necklace	was 63	
	(a) (b)	How ma	ny beads ny beads	s were us s did Alic	sed to m ia have	ake the 2 at first?	2 neckla	ces?		
					(#					
٠,٠٠., ١	. 67		ing s		* 4-					
*	*:			15 14	-4-25		3)			
		ti.				R	15			

Ans: (a) _____ [3] [b] ____ [2]

12

17. The number of children who enrolled in a swim school in September was 30% fewer than the number of children who had enrolled in June. There were 87 more children who enrolled in December as compared to September. There were 375 children who enrolled in the swim school in June, September and December.
(a) How many children enrolled in the swim school in December?
(b) What was the percentage decrease/increase in the number of children who enrolled in June as compared to December?

Do not write in this space

۸	1-1		[2]
Ans:	(a)	 	 1-3

18. The table below shows the number of GaME cards in each different coloured pack and its price.

Do not write in this space

Colour of Pack	Number of cards	Cost per Pack
Red	3	\$0.40
Blue	7	\$0.70
Black	12	\$1.00

Starting on a Monday, Ryan bought an average of 3 packs of red and blue GaME cards each day. On each Sunday, he bought only a black pack of GaME cards.

After 44 days, he had spent \$74.70 on the GaME cards and had 722 cards.

- (a) How much did Ryan spend on the red and blue GaME cards altogether?
- (b) How many packs of Blue GaME cards did Ryan buy?

Ans: (a)	[2]	
End of Paper (b)	[3]	

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YEAR

: 2017

LEVEL

PRIMARY 6

SCHOOL

SUBJECT

: ROSYTH
: MATHEMATICS
: CA1

TERM

Paper 1

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

Q16 3.04

Q17 $\frac{1}{32}$

Q18 7

Q19 3941

Q20 $\frac{5}{9}$

Q21 24%

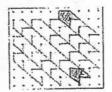
Q22 5 pupils

Q23



Q24 (17w + 22) fruits

 $Q25 40 \text{ cm}^2$



- Q27 28 stickers
- Q28 10 points
- Q29 (4h+2) years old
- Q30 $(15\pi + 20)$ cm

Paper 2

- Q1 15u + 8u = 23u \$46 = 23u $1u \rightarrow $46 \div 23 = 2 8u + 10u + 15u = 33u $33 \times $2 \Rightarrow 66
- Q2 $21 \times 8 \Rightarrow 168 \text{ cm}^2$
- Q3 $84 \div 6 = 14$ $90 \div 6 = 15$ $14 + 15 \Rightarrow 29 \text{ fruits}$
- Q4 Rectangle \rightarrow 12 x 6 = 72 Semicircle \rightarrow 6 x 6 x 3.14 x $\frac{1}{2}$ = 56.52 Shaded area \rightarrow 72 - 56.52 \Rightarrow 15.48 cm²
- Q5 $\frac{1}{9}$

$$100\% \rightarrow \frac{24}{60} \times 100 = $30$$

 $$24 \div 20 = 1.20 per muffin Original price $\rightarrow $30 \div 20 = 1.50 per muffin $$24 \div $1.50 \Rightarrow \underline{16 \text{ muffins}}$

Q7 (a)
$$7g + 20 + 20 \Rightarrow (7g + 40)$$

(b)
$$29 \times 7 = 203$$

 $203 + 40 = 243$
 $243 \div 9 \Rightarrow \underline{27}$

Q8
$$9 \times 9 = 81$$

 $40.5 \times 2 \Rightarrow 81 \text{ cm}^2$

Q9
$$6 \times 24 + 20 = 164$$

 $164 \div 4 = 41$
 $41 \times 28 \Rightarrow 1148 \text{ chairs}$

Q10
$$\frac{1}{4} \times \frac{22}{7} \times 14 \times 14 = 154$$

154 x 2 = 308

$$308 + 266 = 574$$

 $574 \div 14 = 41$
 $41 - 14 \Rightarrow 27 \text{ cm}$

- Q12 (a) $315 \div 7 = 45$ $45 \div 3 = 15$ $15 \times 6 = 90 \text{ (blue)}$ $15 \times 4 = 60 \text{ (red)}$ $90 \times 4 = 360 \text{ (blue)}$ $60 \times 2 = 120 \text{ (red)}$ $120 : 360 \Rightarrow 1 : 3$
 - (b) $15 \times 7 = 105 \text{ (green)}$ $105 \times 3 = 315 \text{ (green)}$ $315 + 360 + 120 \Rightarrow 795 \text{ cm}$
- Q13 19.43 cm²
- Q14 (a) $\frac{7}{108}$ children = 84 84 ÷ 7 = 12 ($\frac{1}{108}$ of children) $\frac{35}{108} + \frac{28}{108} = \frac{63}{108}$ 63 x 12 \Rightarrow 756 children
 - (b) $12 \times 28 = 336$ 621 - 336 = 285 $45 \times 12 = 540$ 540 - 285 = 255 $35 \times 12 = 420$ $420 + 255 \Rightarrow 675 \text{ males}$
- Q15 $13 \times 3 \times 2 = 78$ (length) $9 \times 3 \times 2 = 54$ (breadth) $3 \times 3 \times 4 = 36$ $78 + 54 + 36 \Rightarrow 168$ tiles

- Q16 (a) 424 beads
 - (b) 191 beads
- Q17 (a) 375-87=288 70+70+100=240 $288 \div 240=1.2$ $(1.2 \times 70) + 87 \Rightarrow 171$ children
 - (b) $100 \times 12 = 120$ $120 \div 100 = 1.2$ 171 - 120 = 51 $51 \div 1.2 \Rightarrow 42.5\%$
- Q18 (a) $3 \times 2 = 6$ $3 \times 0.4 = 1.2$ $3 \times 0.7 = 2.1$ 1.2 + 2.1 = 3.3 $44 \div 7 = 6R2$ $6 \times 1 = 6$ $74.70 - 6 \Rightarrow 68.70
 - (b) $0.4 \times 114 = 45.60$ 68.70 - 45.60 = 23.10 0.7 - 0.4 = 0.3 $23.10 \div 0.30 \Rightarrow 77 \text{ packs}$