Second Continual Assessment 2016
Primary 5 Mathematics

Name: _____ Register No. _____

Class: Pr 5 - _____

Date: 23rd August 2016 Parent's Signature: _____

Total Time for Booklets A and B : 50 minutes

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
5. Answer all questions.

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

*** This booklet consists of 5 printed 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. Which of the following is three hundred and eight thousand and seventy-two?

   (1) 3 872
   (2) 30 872
   (3) 38 072
   (4) 308 072

2. Round off 8.539 to 2 decimal places.

   (1) 8.50
   (2) 8.53
   (3) 8.54
   (4) 8.60

3. $40 \div 1000 =$ _____

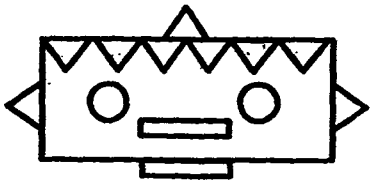
   (1) 0.04
   (2) 0.004
   (3) 25
   (4) 250

4. What is the value of $1\frac{1}{4} \times \frac{1}{6}$?

   (1) $\frac{5}{6}$
   (2) $\frac{5}{24}$
   (3) $1\frac{1}{24}$
   (4) $7\frac{1}{2}$

(Go on to the next page)

5. The figure below is made up of different shapes.
What is the ratio of the number of triangles to the number of circles?



(1) 9 : 2

(2) 2 : 9

(3) 9 : 14

(4) 14 : 9

6. Which of the following does not have the same value as 25%?

(1) 0.25

(2) $\frac{1}{4}$

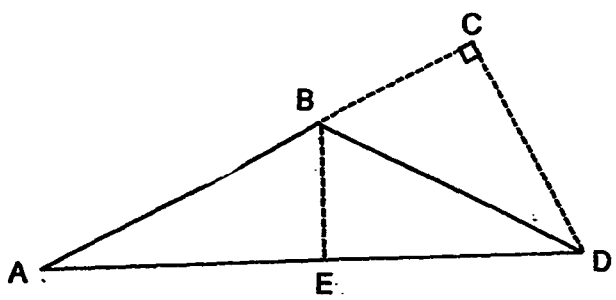
(3) $\frac{25}{100}$

(4) 25

7. What is 20% of $2?

(1) $0.04
(2) $0.40
(3) $4.00
(4) $40.00

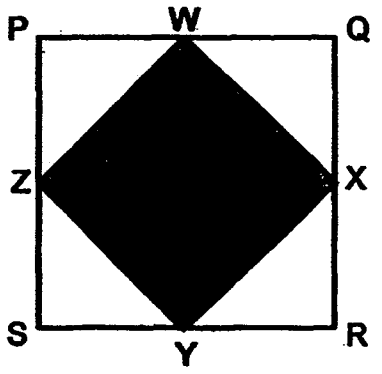
8. The base of triangle ABD is AB. What is the height of triangle ABD?



(1) AD
(2) BD
(3) BE
(4) CD

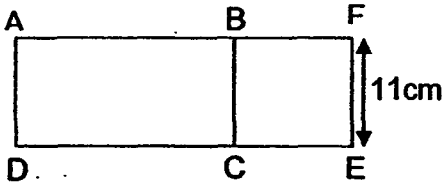
(Go on to the next page)

9. PQRS is a square of side 16 cm. W, X, Y and Z are the mid-points of each side of the square PQRS. Find the area of WXYZ.



(1) 32 cm^2
(2) 64 cm^2
(3) 128 cm^2
(4) 256 cm^2

10. The figure below is made up of a rectangle, ABCD, and a square, BCEF. The length of the rectangle ABCD is twice the breadth of the square. Find the perimeter of the figure.



(1) 66 cm
(2) 77 cm
(3) 88 cm
(4) 110 cm

11. Salim bought 16 packets of sweets. There were 9 sweets in each packet. He shared them equally with Don and Calvin. How many sweets did each boy get?

(1) 48
(2) 72
(3) 3
(4) 144

(Go on to the next page)

12. Mrs Nilla bought 9 kg of grapes. She gave $\frac{3}{4}$ of the grapes to Jia En and $\frac{1}{4}$ kg of it to her neighbour. How many kilogrammes of grapes did she give away?

(1) 7 kg
(2) 2 kg
(3) 3 kg
(4) 8 kg

13. After spending 30% of his money, Wenli still had $378 left. How much did he have at first?

(1) $162
(2) $540
(3) $882
(4) $1 134

14. There was an equal number of boys and girls in the hall. When 10% of the girls left the hall, there were 5 more boys than girls remaining in the hall. How many children remained in the hall?

(1) 45
(2) 50
(3) 95
(4) 100

15. Ai Ling cut a piece of ribbon into three pieces in the ratio of 2 : 3 : 7. The longest piece was then cut into two pieces in the ratio of 1 : 3. Among the four pieces, the length of the shortest piece was 14 cm. What was the length of the ribbon before it was first cut?

(1) 24 cm
(2) 56 cm
(3) 84 cm
(4) 96 cm

(Go on to the next page)

Second Continual Assessment 2016
Primary 5 Mathematics

Name: _____ Register No. _____

Class: Pr 5 - _____

Date: 23rd August 2016 Parent's Signature: _____

Total Time for Booklets A and B : 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	

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

Questions **16** to **25** carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space

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

16. Round off 42 971 to the nearest hundred.

Ans: _____

17. List all the common multiples of 6 and 8 that are smaller than 50.

Ans: _____

18. Find the value of $30 \div (11 - 6) \times 2 + 3$.

Ans: _____

19. Express 6% as a decimal.

Ans: _____

(Go on to the next page)

20. Express 16 cm as a percentage of 200 cm.

Do not write in this space

Ans: _____ %

21. The ratio of the number of boys to the number of girls is 9 : 18. Express the number of boys as a fraction of the total number of pupils in the class. Give your answer in the simplest form.

Ans: _____

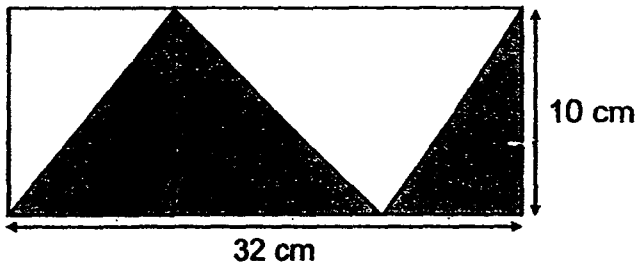
22. There are 36 cookies in a bottle. The ratio of the number of chocolate cookies to the number of raisin cookies in the bottle is 5 : 4. How many chocolate cookies are there in the bottle?

Ans: _____

(Go on to the next page)

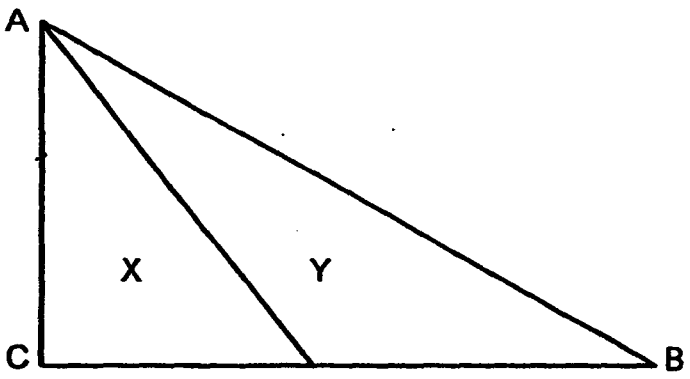
Do not write in this space

23. The figure below shows a rectangle and some triangles.
Find the shaded area.



Ans: _____ cm^2

24. In the figure below, the area of triangle X is $\frac{3}{5}$ of the area of triangle Y.
Given that the area of triangle ABC is 72 cm^2, find the area of triangle Y.

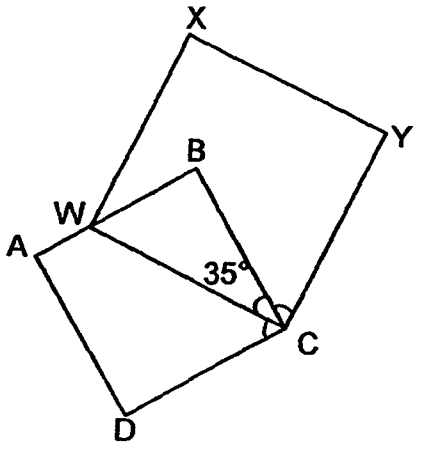


Ans: _____ cm^2

(Go on to the next page)

25. The figure below is made up of 2 squares ABCD and CWXY. ∠WCB is 35°. Find the sum of ∠WCD and ∠BCY.

Do not write in this space



Ans: _____ °

Questions **26** 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.

(10 marks)

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

---

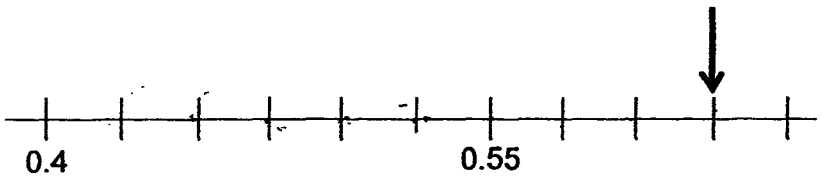
26. Amanda has a 24 m ribbon. She cuts it into shorter pieces of equal length, each measuring $\frac{3}{8}$ m. How many such pieces does she cut?

Ans: _____

(Go on to the next page)

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

Do not write in this space



Ans: _____

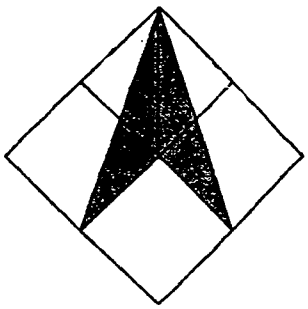
28. Mrs Tan had 130 red and black pens. After she gave away $\frac{1}{2}$ of the red and $\frac{1}{5}$ of the black pens she was left with the same number of red and black pens. How many red pens did she have at first?

Ans: _____

(Go on to the next page)

29. The figure is made up of 4 identical squares. What percentage of the figure is shaded?

Do not write in this space



Ans: _____ %

30. Ben, Huili and Sherman sold a total of 119 funfair coupons.
Ben and Huili together sold 81 coupons.
Ben and Sherman together sold 65 coupons.
How many coupons did Ben sell?

Ans : _____

End of paper. Have you checked your work?

Second Continual Assessment 2016
Primary 5 Mathematics

Name: _____ Register No. _____

Class: Pr 5 -_____

Date: 23rd August 2016 Parent's Signature: _____

Time: 1h 40min

PAPER 2

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)**

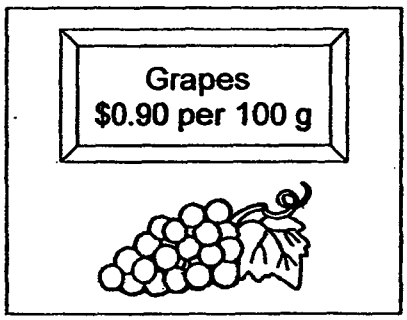
Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.
All diagrams in this paper are not drawn to scale unless stated otherwise.
(10 marks)

Do not write in this space

1. The mass of Tom, Dick and Harry are 36 kg, 18 kg and 24 kg respectively. What is the ratio of Harry's mass to their total mass? Leave your answer in the simplest form.

Ans: _____

2. Raju bought 2.5 kg of grapes
How much did he pay for them?



Ans: $ _____

3. At the beginning of the year, Cai Hong had $1 500 in her bank account. The bank paid 2% interest per year. If she did not withdraw any money during the year, how much money would Cai Hong have in that account after one year?

Ans: $ _____

(Go on to the next page)

4. Zila uses the recipe below to make Macaroni and Cheese.
She has 1 200 g of macaroni, 460 g of cheese and 275 g of butter.
What is the maximum number of people that she can prepare the Macaroni and Cheese for?

Do not write in this space

<u>Macaroni and Cheese recipe</u>
(Serves 4 people)
300 g macaroni
150 g cheese
50 g butter

Ans: _____

5. Sally, Faridah and Ah Lian shared a pack of stickers in the ratio 12 : 11 : 9. The total number of stickers Sally and Faridah had was 98 stickers more than Ah Lian's share. Find the total number of stickers shared by the 3 girls.

Ans: _____

(Go on to the next page)

For Questions **6** to **18,** 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.
All diagrams in this paper are not drawn to scale unless stated otherwise.
(50 marks)

Do not write in this space

6. Mrs Ravi baked 350 tarts. $\frac{3}{5}$ of the tarts were lemon tarts and the rest were apple tarts. She sold an equal number of lemon and apple tarts and had 6 times as many lemon tarts as apple tarts left. How many apple tarts did she sell?

Ans: _____ [3]

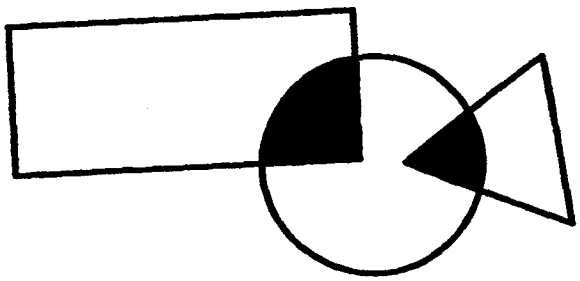
7. Mr Yusoff had some pencils, erasers and rulers. The ratio of the number of pencils to the number of erasers was 5 : 1. After giving away 16 erasers, the ratio of the number of rulers to the number of erasers was 4 : 1. Mr Yusoff bought another 184 rulers. As a result, there were an equal number of pencils and rulers. How many erasers did he have at first?

Ans: _____ [3]

(Go on to the next page)

8. The ratio of the area of the rectangle to the area of the circle to the area of the triangle is 21 : 17 : 4. If $\frac{1}{4}$ of the triangle and $\frac{3}{7}$ of the rectangle are shaded, what is the ratio of the total shaded area to the total of the unshaded area? Leave your answer in the simplest form.

Do not write in this space



Ans: _____ [3]

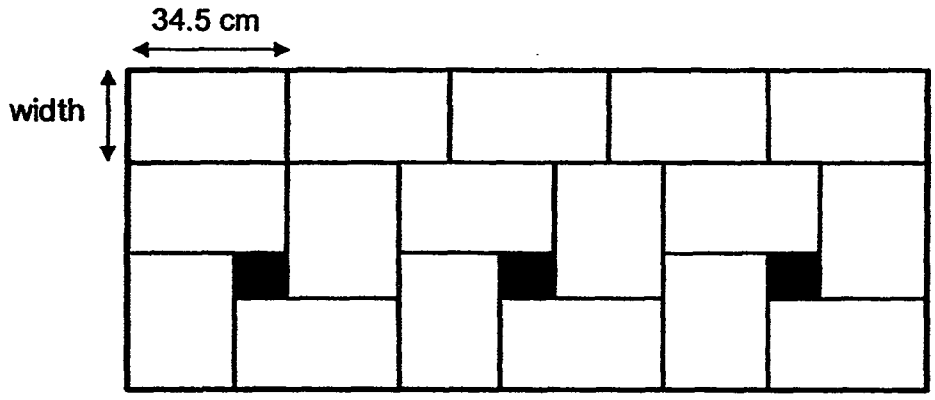
(Go on to the next page)

9. Mr Tan used some identical rectangular tiles and black square tiles to decorate part of a wall as shown below. The length of each tile is 34.5 cm.

(a) Find the width of each tile.

(b) Find the total area of the shaded regions.

Do not write in this space



Ans: (a) _____ [1]

(b) _____ [2]

(Go on to the next page)

10. The torn receipt below shows the items that Rasyid ordered at a food court. He gave the cashier a $20 note. How much change should he receive? Give your answer to the nearest 10¢.

Do not write in this space

Delight Food Court
Serangoon North Ave 1

Table 02

Items:		$
Chicken noodle		4.50
Fried rice		3.80
Iced Tea	2 × 1.20	2.40
	Sub-total:	
	GST 7%	
	Total	
	Cash	
	Change	

Ans: _____ [3]

(Go on to the next page)

Do not write in this space

11. Leslie arranged some rows of chairs. At first, each row had 10 chairs. When he added 4 chairs and the chairs were rearranged, there were 8 chairs in each row and 2 more rows than before. How many more chairs must he add to have a total of 12 rows of 8 chairs?

Ans: _____ [3]

12. Mei Hua folded a rectangular piece of paper, coloured on one side, to form Figure X as shown below. She cut out the folded part A and B into the shape as shown in Figure Y. Find the area of Figure Y.

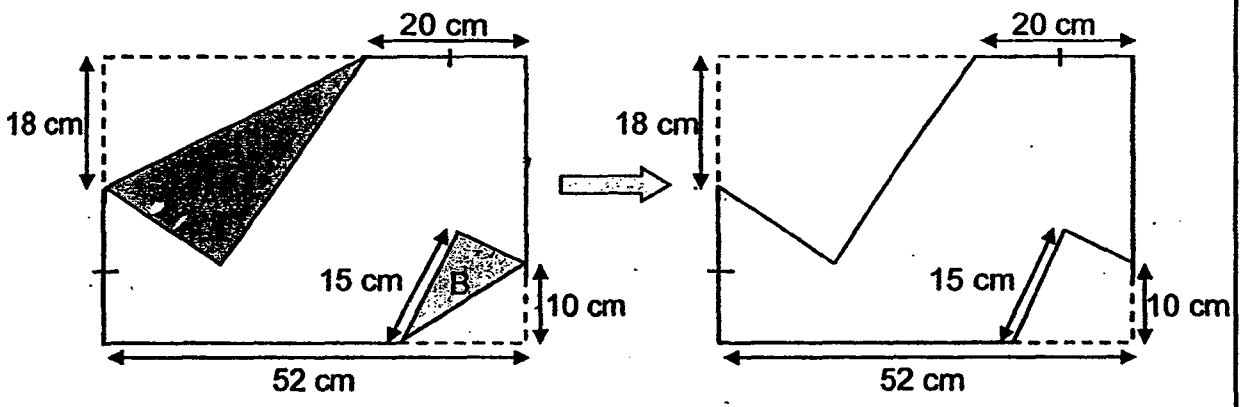


Figure X

Figure Y

Ans: _____ [4]

(Go on to the next page)

13. The figures below are formed using sticks and dots.

Do not write in this space

Figure 1 Figure 2 Figure 3 Figure 4

(a) The table below shows the number of sticks and dots used for each figure. Complete the table for figure 5.

Figure Number	Number of sticks used	Number of dots used	Total Number of sticks and dots
1	2	1	3
2	6	2	8
3	10	3	13
4	14	4	18
5	(ai) ?	5	(aii) ?

(b) Which figure would need a total of 103 sticks and dots?

Ans: (ai) _____ [1]

(aii) _____ [1]

(b) _____ [2]

(Go on to the next page)

Do not write in this space

14.

Toy Bonanza!!!

Special Discount

1st item at 10% discount

2nd item at 25% discount

****Price of the 2nd item should be the same as or lower than the price of the 1st item.**

(a) Sofia bought a doll and a toy plane during the Toy Bonanza. The usual price of the doll and the toy plane was $12 and $18 respectively. How much did she pay for the 2 items?

(b) Nick bought 2 identical toy guns. The total discount for the 2 toy guns was $10.50. What was the price of each gun before discount?

Ans: (a) _____ [2]

(b) _____ [2]

(Go on to the next page)

15. A bakery charged $8 for a box of 3 cupcakes and $4.50 for a box of 6 donuts. In December, the bakery collected $6 437 from the sale of cupcakes and donuts. For every 12 boxes sold, 5 boxes were donuts and the rest were cupcakes.

(a) How many boxes of donuts were sold in December?

(b) How many more donuts than cupcakes were sold in December?

Do not write in this space

Ans: (a) _____ [3]

(b) _____ [2]

(Go on to the next page)

16. Caitlyn spent some of her money on a dress, a pair of shoes and some neckties. She spent $\frac{1}{5}$ of her money and an additional \$119 on a dress. Next, she spent $\frac{2}{7}$ of the remaining money and an additional \$29 on a pair of shoes. Finally, she spent $\frac{2}{3}$ of what she had left on some neckties and had \$12 left. How much did Caitlyn have at first?

Do not write in this space

Ans: _____ [5]

(Go on to the next page)

Do not write in this space

17. Tickets for a coach ride to Kuala Lumpur for 4 adults and 5 children cost $185. The cost for 3 adults and 6 children was $177. Mr Tan went to Kuala Lumpur with his wife, parents and children and paid $151 for the coach tickets. How many children tickets did he buy?

Ans: _____ [5]

(Go on to the next page)

18. At a school carnival, each boy received 3 packets of sweets and each girl received 4 packets of sweets. Each accompanying adult received 2 packets of sweets. $\frac{2}{7}$ of the people at the school carnival were adults. The ratio of the number of boys to the number of girls at the carnival was 5 : 8. Given that only 6 601 packets of sweets were given away, how many people were there at the carnival?

Do not write in this space

Ans: _____ [5]

End of Paper

ANSWER KEY

YEAR : 2016
LEVEL : PRIMARY 5
SCHOOL : ROSYTH
SUBJECT : MATHEMATICS
TERM : CA2

Paper 1

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

Q16 43 000

Q17 24, 48

Q18 15

Q19 0.06

Q20 8 %

Q21 $\frac{1}{3}$

Q22 20

Q23 160 cm^2

Q24 45 cm^2

Q25 110°

Q26 $24 \div \frac{3}{8} \Rightarrow$ 64 pieces

Q27 0.625

Q28 $130 \div (8 + 5) \rightarrow 10$
$10 \times 8 \Rightarrow$ 80 red pens

Q29 $100 \div 4 \Rightarrow$ 25 %

Q30 Sherman $\rightarrow 119 - 81 = 38$
Ben $\rightarrow 65 - 38 \Rightarrow$ 27 coupons

Paper 2

Q1 4 : 13

Q2
2.5 x 1000 = 2500
2500 ÷ 100 = 25
25 x 0.90 ⇒ $22.50

Q3
1 % → 1500 ÷ 100 = 15
102 % → 15 x 102 ⇒ $1530

Q4
460 ÷ 150 = 3.06 ≈ 3
3 x 4 ⇒ 12 people

Q5 32 x 7 ⇒ 224 stickers

Q6
1u → 350 ÷ 5 = 70
A → 5 – 3 = 2
70 x 2 = 140
L → 3 x 70 = 210
Sold for A → 10 – 1 = 9
140 ÷ 10 = 14
14 x 9 ⇒ 126 apple tarts

Q7 184 – (16 x 4) ⇒ 120 erasers

Q8 10 : 22

Q9a 23 cm

Q9b
L of sq → 34.5 – 23 = 11.5
Area of sq → 11.5 x 11.5 = 132.25
132.50 x 3 ⇒ 396.75 cm^2

Q10
Sub total → 4.5 + 3.8 + 2.4 = 10.70
GST → $\frac{7}{100}$ x 10.7 = 0.749
Total → 10.7 + 0.749 = 11.449
20 – 11.449 = 8.551 ≈ $8.60

Q11
No. of chairs → 6 x 10 + 4 = 64
No. of chairs used → 12 x 8 = 96
96 – 64 ⇒ 32 chairs

Q12
$\frac{1}{2}$ x 18 x 32 x 2 = 576
$\frac{1}{2}$ x 10 x 15 x 2 = 150
38 x 52 – 576 – 150 ⇒ 1250 cm^2

Q13ai 18

Q13aii 23

Q13b 21

Q14a $25.50

Q14b $30

Q15a $6437 \div [(6 \times 8)] + (5 \times 4.5)] \approx 91$
$91 \times 4.5 \Rightarrow$ 410 boxes

Q15b Donuts $\rightarrow 410 \times 6 = 2460$
Cupcakes $\rightarrow 82 \times 7 \times 3 = 1722$
Difference $\rightarrow 2460 - 1722 \Rightarrow$ 738 donuts

Q16 $3p \rightarrow 12 \times 3 = 36$
$5p \rightarrow 36 + 29 = 65$
$1p \rightarrow 65 \div 5 = 13$
$7p \rightarrow 13 \times 7 = 91$
$4u \rightarrow 91 + 119 = 210$
$1u \rightarrow 210 \div 4 = 52.5$
$5u \rightarrow 5 \times 52.5 \Rightarrow$ $262.50

Q17 $12a + 15c = 555$
$12a + 24c = 708$
$9c \rightarrow 708 - 555 = 153$
$1c \rightarrow 153 \div 9 = 17$
$5c \rightarrow 17 \times 5 = 85$
$4a \rightarrow 185 - 85 = 100$
$151 - 100 = 51$
$1c \rightarrow 51 \div 17 \Rightarrow$ 3 children tickets

Q18 $160 + 52 + 75 = 287$
$6601 \div 287 = 23$
$26 + 25 + 40 = 91$
$23 \times 91 \Rightarrow$ 2093 people

End