



Maha Bodhi School  
2009 Continual Assessment 2  
Mathematics

Name : \_\_\_\_\_ ( )

Date : 25 August 2009

Class : Pr 5 \_\_\_\_\_

Total time for Booklets A and B : 50 min

PAPER 1  
BOOKLET A

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.

(20 marks)

You are not allowed to use a calculator.

1. How many thousands are there in 10 million?

- (1) 10
- (2) 100
- (3) 1000
- (4) 10000

2. There are 55 black beads and 33 white beads in a box. What fraction of the beads are black?

- (1)  $\frac{3}{8}$
- (2)  $\frac{5}{8}$
- (3)  $\frac{3}{5}$
- (4)  $\frac{5}{3}$

3. Which of the following is the closest to 5 km?

- (1) 5.19 km
- (2) 4.91 km
- (3) 5.009 km
- (4) 4.908 km

4.  $4 \div 9$  has the same value as \_\_\_\_\_.

(1)  $\frac{1}{4} \times \frac{1}{9}$

(2)  $\frac{1}{9} + 4$

(3)  $\frac{1}{4} \div 9$

(4)  $4 \times \frac{1}{9}$

5.  $6.224 \times 10 + 70$  is the same as \_\_\_\_\_

(1)  $\frac{622.4}{7000}$

(2)  $\frac{622.4}{700}$

(3)  $\frac{622.4}{70}$

(4)  $\frac{622.4}{7}$

6. The scale on a map is 1 cm to every 2.5 km. If two towns are 500 m apart, what is the distance represented on the map?

(1) 0.2 cm

(2) 2 cm

(3) 20 cm

(4) 200 cm

7. Express  $1\frac{1}{4}$  h in minutes.

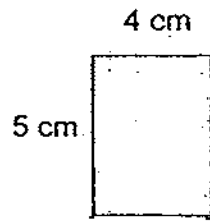
(1) 75 min

(2) 85 min

(3) 115 min

(4) 125 min

8. The diagram below shows a tile that measures 4 cm by 5 cm. If 4 such tiles are placed together to form a large rectangle, what is the largest possible perimeter of the large rectangle?



- (1) 36 cm  
(2) 42 cm  
(3) 48 cm  
(4) 80 cm
9. At the school bookstore, the ratio of English books to Chinese books was 17 : 13. If there were 12 fewer Chinese books than English books, how many books were there in all?
- (1) 52  
(2) 90  
(3) 156  
(4) 360
10. Judy drew a square with area  $25 \text{ cm}^2$ . Her Art teacher told her to draw another square by increasing the length of the first square by 60%. What is the length of the second square?
- (1) 40 cm  
(2) 15 cm  
(3) 3 cm  
(4) 8 cm
11. A factory can produce 1047 paper lanterns every 3 hours. If the factory produced the lanterns for 15 hours and threw away 109 defective ones, how many paper lanterns did the factory have?
- (1) 3032  
(2) 3250  
(3) 5126  
(4) 5344

12. Madeline bought some goldfish. She gave away 9 of them. Charles gave her the same number of goldfish as the number of goldfish she had left. She put all the goldfish equally into 6 containers. Each container contained 12 goldfish. How many goldfish did Madeline buy?

- (1) 36
- (2) 45
- (3) 72
- (4) 81

13. Amelia and her sister shared the cost of a gift for their mother. Amelia paid \$25 more than  $\frac{3}{8}$  of the cost of the gift. If her sister paid \$35, how much did the gift cost?

- (1) \$ 36
- (2) \$ 60
- (3) \$ 96
- (4) \$ 160

14. <sup>Customers in restaurant A to B to that of C</sup>  
~~The ratio of the number of men to women to children at a restaurant~~ was 7 : 5 : 9. If there were 45 ~~children~~, what was the average number of ~~people~~ in the restaurant?

- (1) 30
  - (2) 35
  - (3) 60
  - (4) 105
- $\frac{\text{customers in restaurant C}}{\text{customers}} = 3$

15. Mr Seah spent 40% of his salary on food, 30% of the remaining salary on transport and saved the rest. What percentage of his money did he save?

- (1) 30%
- (2) 42%
- (3) 48%
- (4) 56%



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2009 Continual Assessment 2  
Mathematics

Name : \_\_\_\_\_ ( )

Date : <sup>25</sup>24 August 2009

Class : Pr 5 \_\_\_\_\_

Total time for Booklets A and B : 50 min

PAPER 1  
BOOKLET B

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)  
You are not allowed to use a calculator.

16. Simplify  $35 - 5 \times 2 + 20 \div 4$ .

Ans: \_\_\_\_\_

17. What is the maximum number of squares of sides 4 cm which can be cut from a rectangular piece of cardboard 35 cm by 26 cm?

Ans: \_\_\_\_\_ cm

18. Jeremylis 7 years old. His age is  $\frac{1}{5}$  of his father's age. How much younger is Jeremy than his father?

Ans: \_\_\_\_\_ years old

19. A piece of string is cut into two pieces,  $2\frac{4}{5}$  m and  $1\frac{3}{4}$  m long. What is the original length of the string?

Ans: \_\_\_\_\_ m

20. Write 6 tens 6 hundredths in numerals.

Ans: \_\_\_\_\_

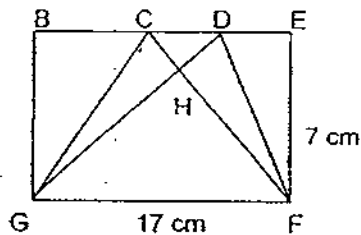
21. In a 100 m swimming competition, Peter clocked in 1.95 min. Leon was 12 s faster. How long did Leon take to swim 100 m?

Ans: \_\_\_\_\_ min

22. Both Mr Lee and Mr Pang have only 20 ¢ coins. Mr Lee has 45 coins. He has 27 fewer coins than Mr Pang. Find the ratio of the amount of money Mr Lee has to the amount Mr Pang has.

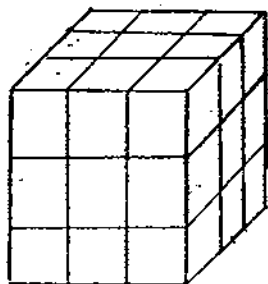
Ans: \_\_\_\_\_

23. The figure is made up of a rectangle and triangles.  
If the area of Triangle FGH is  $51 \text{ cm}^2$ , find the area of triangle CGH.



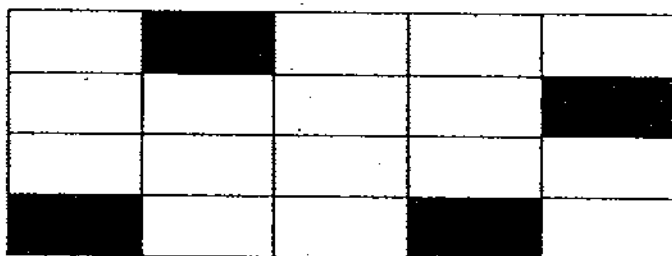
Ans: \_\_\_\_\_  $\text{cm}^2$

24. The solid below is made up of 1-cm cubes. Yang Yang is painting all its sides yellow. After the paint has dried, Yang Yang will saw through the solid following the black lines to get smaller cubes. How many small cubes will only have 2 yellow sides?



Ans: \_\_\_\_\_ cubes

25. The figure shown below is divided into equal parts. How many more equal parts must you shade to show that 65% of the whole figure is shaded?



Ans: \_\_\_\_\_

Questions 26 to 30 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided.

For questions which require units, give your answers in the units stated. (10 marks)  
You are not allowed to use a calculator.

26.  $\frac{2}{3}$  of a number is 320. What is  $\frac{7}{12}$  of the number?

Ans: \_\_\_\_\_

27. The mass of 4 tanks and 7 crates is 22.5 kg. The mass of 2 similar tanks and 1 similar crate is 6.3 kg. Find the total mass of 5 such crates.

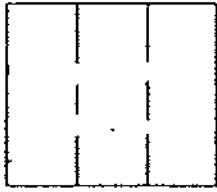
Ans: \_\_\_\_\_ kg

28. A flask holds  $\frac{6}{7}$  as much water as a kettle. A mug holds  $\frac{3}{4}$  as much water as the flask. The ratio of the amount of water in the kettle to the amount of water in the mug is \_\_\_\_\_.

Ans: \_\_\_\_\_



29. A square shown below has been divided into 3 equal rectangles. If one of the rectangles has a perimeter of 22 cm, what is the perimeter of the square?



Ans: \_\_\_\_\_ cm

30. 30% of Eunice's money is equal to 90% of Kylie's money. If they have a total of \$120, how much money does Eunice have?

Ans : \$ \_\_\_\_\_



Maha Bodhi School  
2009 Continual Assessment 2

Mathematics

Name : \_\_\_\_\_ ( )

Class : Pr 5 \_\_\_\_\_

Duration : 1 h 40 min

Date : 25 August 2009

Parent's Signature : \_\_\_\_\_

Paper 1	
Booklet A ( 20 marks )	
Booklet B ( 20 marks )	
Paper 2	
Q1 to Q5 ( 10 marks )	
Q6 to Q18 ( 50 marks )	
Total ( 100 marks )	

PAPER 2

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided.

For questions which require units, give your answers in the units stated.

You are allowed to use a calculator.

(10 marks)

1. Annie, Bella and Chris shared a number of stamps. Annie had thrice as many stamps as Bella. Bella had 5 fewer stamps than Chris who received 7 fewer stamps than Annie. How many stamps did Annie receive?

Ans : \_\_\_\_\_ stamps



2. I have two numbers. One number is 44 less than the other number. If the larger number is increased by 10, it will be 4 times that of the smaller number. Find the larger number.

Ans : \_\_\_\_\_

3. A rectangular tank is  $\frac{2}{5}$  filled with water. When another  $2\ell\ 40\text{ ml}$  of water is poured in, the tank becomes  $\frac{2}{3}$  full. What is the capacity of the tank in  $\ell$ ?

Ans: \_\_\_\_\_  $\ell$

4. During the school holidays, Ms Olivia Goh and Mrs Krishnan brought some pupils to SuperChef Restaurant to celebrate their good results. SuperChef Restaurant sells the following combo meals:

SuperChef Restaurant		
Combo Meal A	1 rice + $\frac{1}{4}$ chicken + fries + 1 drink	\$ 7.90
Combo Meal B	1 rice + $\frac{1}{2}$ chicken + fries + 1 drink	\$11.90
Combo Meal C	1 rice + 1 fish + salad + 1 drink	\$13.90
 <b>School Holidays Special: No GST and No service charge</b> 		

Ms Olivia Goh ordered Combo Meal C while Mrs Krishnan ordered Combo Meal A. 14 pupils ordered Combo Meal B and the rest of the pupils ordered Combo Meal C. The total bill came up to \$313.50. How many pupils were there?

Ans: \_\_\_\_\_ pupils

5. The original price of a shirt is \$168. During a sale, a 15% discount is given to all shoppers. Being a member of the boutique, Mr Tan is given an additional discount of 5% on top of the discounted price. How much did he pay for the shirt?

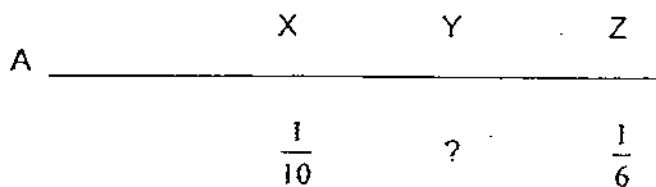
Ans : \$ \_\_\_\_\_

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. (50 marks)  
**You are allowed to use a calculator.**

6. There were an equal number of boys and girls in the classroom. After 12 boys left the classroom, there were thrice as many girls as boys in the classroom. How many pupils were there in the classroom at first?

Ans : \_\_\_\_\_ [3]

7. (a) What fraction of 2 kg is 24 g?
- (b) In the diagram below not drawn to scale, the distance between XY and YZ are the same.  
 X is  $\frac{1}{10}$  km away from A while Z is  $\frac{1}{6}$  km away from A.  
 How far is Y away from A?



Ans : \_\_\_\_\_ [1]

Ans : \_\_\_\_\_ [2]

8. Rani, Shirley and Tina deposited their savings in PosBank. Rani and Shirley saved a total of \$12 492. Shirley and Tina saved a total of \$7019.10. Rani saved 19 times as much money as Tina. How much did Shirley save?

Ans: \_\_\_\_\_ [3]

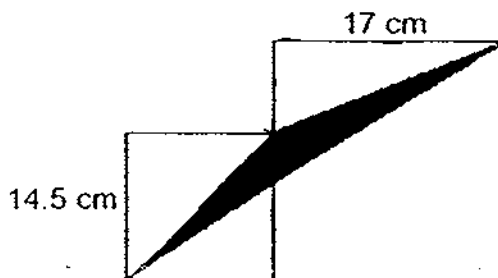
9. 4 girl guides and 8 scouts sold 1180 charity tickets. Each scout sold 20 more tickets than each girl guide. How many tickets did each scout sell? Round off your answer to the nearest 10.

Ans : \_\_\_\_\_ [3]

10. Every month when John received his salary, he would give his father some money and spent the remaining amount of salary. The ratio of the amount of money John gave to his father to the amount spent on himself was 7 : 4. John spent his money on food and transport in the ratio 5 : 3 respectively. If he spent \$580 more on food than on transport, what was the ratio of the amount of money spent on food to his salary?

Ans: \_\_\_\_\_ [3]

11. The figure is made up of 2 squares. Find the shaded area.



Ans: \_\_\_\_\_ [4]

12. Shawn and Michael had different number of stamps at first. After Shawn gave Michael  $\frac{1}{4}$  of his stamps, Michael had more stamps than him. Michael then gave Shawn  $\frac{1}{4}$  of his new number of stamps and they had 126 stamps each at the end. How many stamps did Shawn have at first?

Ans : \_\_\_\_\_ [4]



13. Water flows into a tank at the rate of  $45 \ell$  per minute. After 10 min, the tap is turned off and the tank is  $\frac{1}{6}$  filled with water.
- (a) How much more water is needed to fill it to the brim?
- (b) The water in the tank is then poured into containers each 1.5 m long, 0.3 m wide and 10 cm high. How many such containers are needed?

Ans: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [2]

14. Mdm Sim and Mdm Li wrapped a total of 3300 dumplings. Mdm Sim wrapped 5 dumplings for every 6 dumplings that Mdm Li wrapped.

They were paid 20 cents for every dumpling wrapped. They earned an extra \$2.50 for every 40 dumplings wrapped.

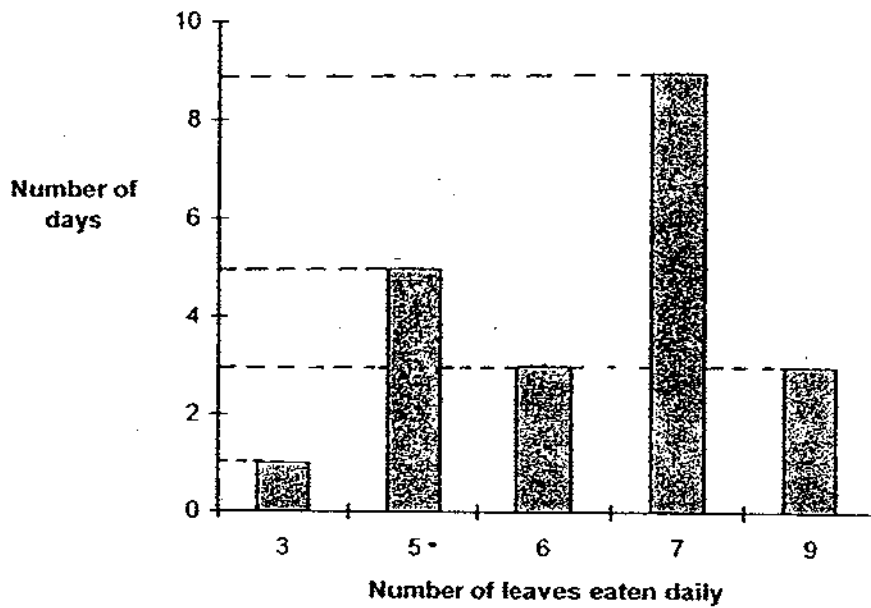
(a) How many dumplings did Mdm Sim wrap?

(b) How much did Mdm Sim earn?

Ans: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [2]

15. Ali kept a grasshopper. Every evening, he counted the number of leaves his grasshopper ate each day and recorded the number eaten. The graph below shows his records over a three-week period.



- (a) What is the total number of leaves the grasshopper ate over the three-week period?
- (b) Find the percentage of days the grasshopper ate fewer than 7 leaves. Give your answer correct to two decimal places.

Ans: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [2]

16. A delivery company charges \$15 for every parcel delivered on time. There is no charge for parcels delivered late. The company will also compensate its customers \$5 for every parcel delivered late. In January, the company made a profit of \$35 880 after compensating for late delivery of parcels. For every 50 parcels delivered, 3 were late.

- (a) How many parcels were delivered late in January?
- (b) How much money was lost because of late delivery?

Ans: (a) \_\_\_\_\_ [3]

(b) \_\_\_\_\_ [2]

17. At a sports stadium, the ratio of the number of females to the number of males was 5 : 7. The ratio of the number of girls to the number of women was 2 : 3. The ratio of the number of boys to the number of men was 4 : 5.

(a) What fraction of the people in the sports stadium were girls and boys?

(b) If there were 1512 more men than women, how many people were at the stadium?

Ans: (a) \_\_\_\_\_ [3]

(b) \_\_\_\_\_ [2]

18. Mrs Molly baked 180 cupcakes. 55% of them were of chocolate flavour and the rest were of vanilla flavour. After selling some of the chocolate cupcakes, the percentage of the chocolate cupcakes became 40%.

- (a) How many cupcakes were left?
- (b) How many chocolate cupcakes were sold?

Ans : (a) \_\_\_\_\_ [3]

(b) \_\_\_\_\_ [2]



*Remember to check your work!  
Every mark counts.  
-End of Paper -*

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# ANSWER SHEET

**EXAM PAPER 2009**

**SCHOOL : MAHA BODHI PRIMARY  
SUBJECT : PRIMARY 5 MATHEMATICS**

**TERM : CA2**



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

- 16)30    17)48 squares    18)28 years old    19) $4\frac{11}{20}$ m    20)6.06  
21)1.75min    22)5:8    23)8.5cm<sup>2</sup>    24)12 cubes    25)9 parts  
26)280    27)9.9kg    28)21:6    29)23cm<sup>2</sup>    30)\$90

**Paper 2**

- 1)18 stamps    2)62    3)7.65L    4)23    5)\$135.66  
6)36 pupils    7)a)3/250    b)2/15km    8)\$6715.05    9)110 charity ticket  
10)5:22    11)105.125cm<sup>2</sup>    12)112    13)a)300L    b)10  
14)a)1500 dumplings    b)\$392.50    15)a)136 leaves    b)42.86%  
16)a)52    b)\$3120    17)a)23/54    b)20412    18)a)135    b)45

NAME: \_\_\_\_\_ DATE: \_\_\_\_\_  
CLASS: \_\_\_\_\_



Q10.  
Father himself Total  
7 : 4 : 11  
= 14 : 8  
Food Transport  
5 : 3

The amount he spent on food to his salary is  $\rightarrow 5:22$

Q11.  
Area of figure  
 $= 14.5 \times 14.5 + 7 \times 7$   
 $= 210.25 + 49$   
 $= 259.25 \text{ cm}^2$

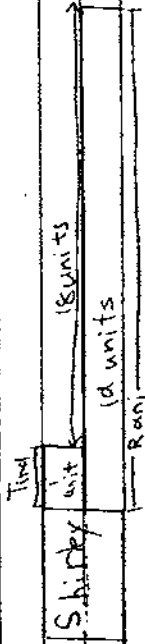
Area of  $\triangle A = \frac{14.5 \times 14.5}{2}$   
 $= 105.125 \text{ cm}^2$

Area of  $\triangle B = \frac{7 \times 7}{2}$   
 $= 24.5 \text{ cm}^2$

Area of  $\triangle C = \frac{14.5 \times 7}{2}$   
 $= 50.875 \text{ cm}^2$

Shaded area  
 $= 49.25 - 105.125 - 24.25 - 26.75$   
 $= 165.125 \text{ cm}^2$

NAME: \_\_\_\_\_ DATE: \_\_\_\_\_  
CLASS: \_\_\_\_\_



$18 \text{ units} = 124.92 - 70.19$   
 $1 \text{ unit} = \frac{54.73}{18}$   
 $= 304.05$

Tina saved \$304.05

Shirley saved  $-\$ (70.19 - 304.05)$   
 $= \$ 233.86$

Q9. Method 1

Scouts sold  
 $\rightarrow 8 \times 20$   
 $= 160$  more tickets in all

$(8+4)$  guides sold  
 $\rightarrow 1180 - 160$   
 $= 1020$

Each guide sold  
 $\rightarrow \frac{1020}{12}$   
 $= 85$  tickets

Each scout sold  
 $\rightarrow 85 + 20$   
 $= 105$   
 $\approx 110$  tickets

Method 2

Scouts would sell  
 $\rightarrow 4 \times 20$   
 $= 80$  more tickets.

$(8+4)$  scouts would sell  
 $\rightarrow 1100 + 80$   
 $= 1180$  tickets

Each scout sold  
 $\rightarrow \frac{1180}{12}$   
 $= 98.33$   
 $\approx 105$  tickets  
 $\approx 110$  tickets





NAME: \_\_\_\_\_ ( )  
CLASS: \_\_\_\_\_ DATE: \_\_\_\_\_

Q15: a) Total no. =  $(1 \times 5) + (5 \times 5) + (3 \times 6) + (2 \times 7) + (8 \times 9)$   
 $= 136$  lemons.

% of days =  $\frac{136}{3} \times 100\%$   
 $\approx 42.96\%$

Mdm Sim	Mdm Li	Total
5	6	11

11 units = 3300  
 5 unit =  $\frac{5 \times 3300}{11}$   
 $= 1500$

Mdm Sim wrapped 1500 dumplings.

1 set  $\Rightarrow$  40 dumplings  
 No. of sets  $\Rightarrow \frac{1500}{40}$   
 $\approx 37$

Mdm Sim earned  $\rightarrow (1500 \times 0.20) + (37 \times 2.50)$   
 $= \$300 + \$92.50$   
 $= \$392.50$



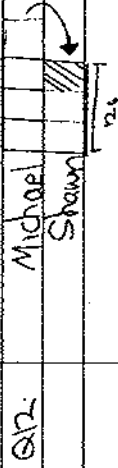
NAME: \_\_\_\_\_ ( )  
CLASS: \_\_\_\_\_ DATE: \_\_\_\_\_

Q13: 1 min  $\Rightarrow$  45 l      0.6 of tank  $\rightarrow$  450 l  
 10 min  $\Rightarrow$  450 l      0.4 of tank  $\rightarrow (\frac{0.4 \times 450}{0.6})$   
 $= 300$

300 l more water will be needed.

No. of containers =  $\frac{450 \times 100}{15 \times 1000 \times 10}$   
 $= 10$

10 such containers are needed.



3 units = 126  
 2 units =  $\frac{126 \times 2}{3}$   
 $= 84$   
 3 units = 84  
 4 units =  $\frac{4 \times 84}{3}$   
 $= 112$

Shawn had 112 stamps at first.



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Mathematics Paper CA2

$$100\% \rightarrow 180$$

$$55\% \rightarrow \frac{55 \times 180}{100}$$

$$= 99 \text{ (chocolate)}$$

$(100 - 55\%) \rightarrow \frac{45 \times 180}{100}$ = 81	No. of vanilla flavoured $\rightarrow 180 - 99$ = 81
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$$60\% \rightarrow 81$$

$$100\% \rightarrow \frac{100 \times 81}{60}$$

$$= 135$$

135 cupcakes were left.

$$180 - 135 = 45 \text{ chocolate cupcakes were sold.}$$



NAME: \_\_\_\_\_ ( )  
CLASS: \_\_\_\_\_ DATE: \_\_\_\_\_

Q17. Females Males Girls Women Boys Men  
5 : 7 2 : 3 4 : 5  
45 : 63 = 15 : 21 = 28 : 35

a) No. of fraction =  $\frac{18 \times 28}{100 \times 15}$   
=  $\frac{42}{25}$   
=  $\frac{22}{24}$

(35-27) units = 15/2  
(45-63) units =  $\frac{108 \times 15}{2}$   
= 2042

There were 2042 people.

Q18. (set  $\rightarrow$  47) punctured 3 late parcels

Profit per set  $\rightarrow (4 \times 15) - 3 \times 15$   
= 45 - 45  
= 0

No. of sets  $\rightarrow \frac{35000}{600}$   
= 58

No. of late parcels  $\rightarrow 58 \times 3$   
= 174

Money lost  $\rightarrow 156 \times (5 + 15)$   
= 3120