



Maha Bodhi School  
2009 Semestral Assessment 1  
Mathematics

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

Date : 5 May 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. Mr Lim bought a flat for \$ 458 868 . Round off this amount to the nearest \$ 1000.

- (1) \$ 458 000
- (2) \$ 458 800
- (3) \$ 458 900
- (4) \$ 459 000

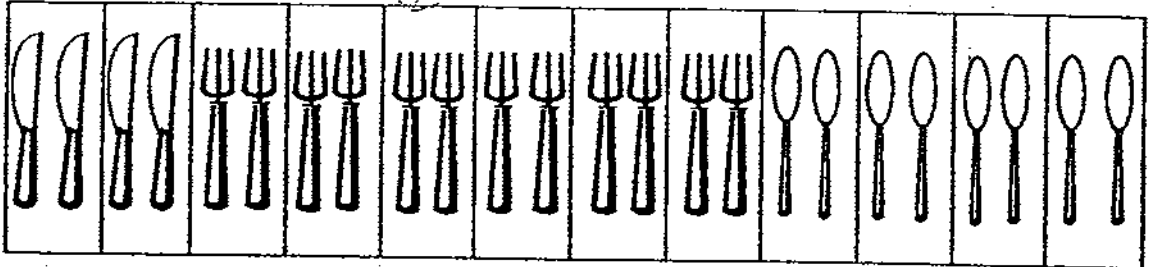
2. In 43.21, which digit is in the tenths place?

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

3. Express 250 as a fraction of 750.

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

4. What is the ratio of the number of spoons to the number of forks to the number of knives?



- (1) 1 : 3 : 2
- (2) 1 : 2 : 3
- (3) 2 : 3 : 1
- (4) 2 : 1 : 3

5. Mrs Neo bought 5 pens at \$2.75 each. She paid the cashier with a \$50 note. How much change did she get?

- (1) \$36.25
- (2) \$37.35
- (3) \$43.75
- (4) \$47.25

6.  $36 - 4 + 2 \times (8 + 5) = \underline{\hspace{2cm}}$

- (1) 10
- (2) 15
- (3) 133
- (4) 208

7.  $\frac{1}{6}$  of a load is 24 kg. What is  $\frac{1}{4}$  of the load?

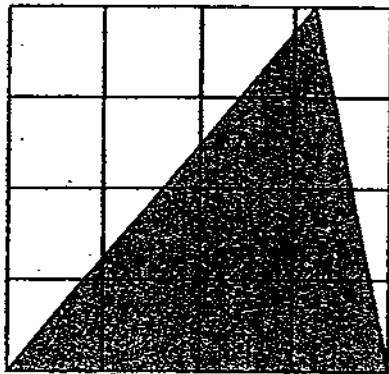
- (1) 1 kg
- (2) 4 kg
- (3) 36 kg
- (4) 144 kg

8. There were 3300 children in a school.  $\frac{7}{10}$  of them were girls.

$\frac{1}{3}$  of the boys wore glasses. How many boys did not wear glasses ?

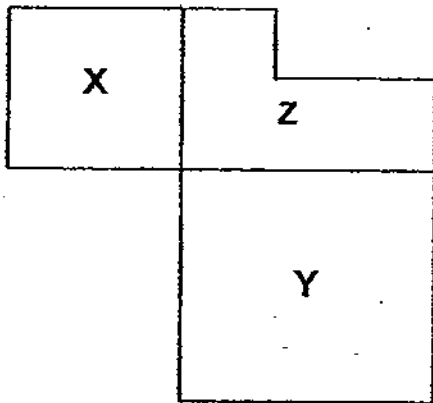
- (1) 330
- (2) 660
- (3) 770
- (4) 990

9. The figure below is made up of 16 squares. If each square has a length of 2 cm, what is the area of the shaded figure?



- (1)  $8 \text{ cm}^2$
  - (2)  $16 \text{ cm}^2$
  - (3)  $32 \text{ cm}^2$
  - (4)  $64 \text{ cm}^2$
10. Bob and Carol shared 120 stickers in the ratio 3 : 7 respectively. How many more stickers did Carol receive than Bob?
- (1) 12
  - (2) 36
  - (3) 48
  - (4) 84
11. For every 4 pens that John buys, he gets 2 free. What is the least number of pens he has to buy in order to get a total of 84 pens ?
- (1) 14
  - (2) 21
  - (3) 28
  - (4) 56

12. When all the sides of a square are reduced by half, its area is decreased by  $\frac{3}{4}$ .  
If the new area is  $147 \text{ cm}^2$  less than the original area, what is the new perimeter of the square?
- (1) 14 cm  
(2) 28 cm  
(3) 49 cm  
(4) 56 cm
13. If Mei Hua spends \$6 a day, her money will last her 20 days. If she spends \$2 less a day, how many more days can the same amount of money last?
- (1) 10 days  
(2) 20 days  
(3) 30 days  
(4) 60 days
14. In the figure below, the area of square X is  $16 \text{ cm}^2$  and the area of square Y is  $36 \text{ cm}^2$ . Find the perimeter of Z.



- (1) 20 cm  
(2) 24 cm  
(3) 26 cm  
(4) 36 cm

15. Carol, Diana and Elaine share a sum of money in the ratio 4 : 8 : 3. Diana gave some of her money to Carol and Elaine. Then each of them had the same amount of money. What fraction of her money did Diana give to Elaine and Carol?

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



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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. Use the digits 1, 4, 0, 7 and 6 to form the greatest possible 5-digit odd number.

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

17. Complete this number pattern:

123 456 , 123 486 , \_\_\_\_\_ , 123 636 , 123 756

18.  $28 \times 14 = 14 + 14 + 14 + 14 + 14 \times$  \_\_\_\_\_

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

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

19. Mr Tan's monthly salary is \$2000. He will get an additional  $2\frac{1}{2}$  months bonus with his December's salary. What will be the total amount of money he receives in December?

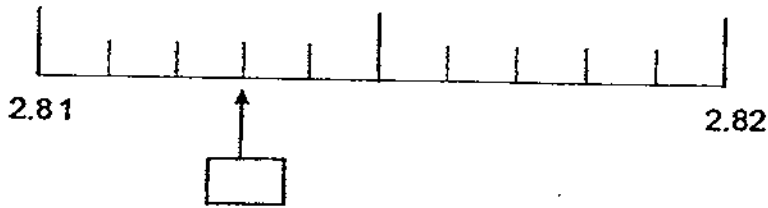
Ans: \$ \_\_\_\_\_

20. What is the missing number?

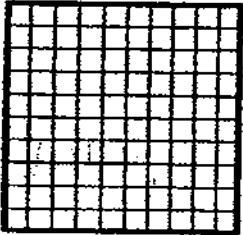
$$30 : \boxed{\phantom{00}} = 2 : 1$$

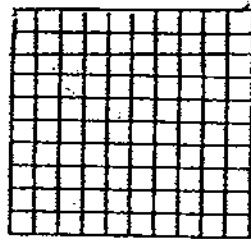
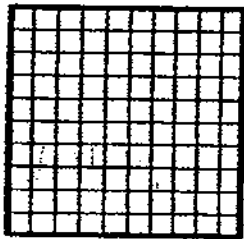
Ans: \_\_\_\_\_

21. What is the missing decimal in the box?



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

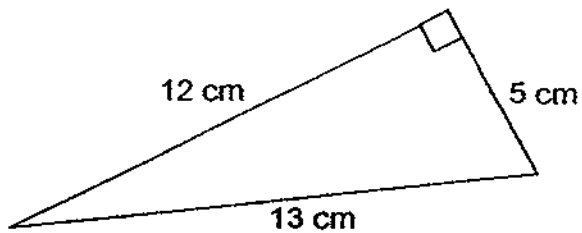
22. If  = 1 whole, shade the correct number of parts below to show 0.15.



23. I started cleaning the house at 09 15 and completed the cleaning at 14 20 last Monday. How long did I take to clean the house?

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

24. The figure below is not drawn to scale. What is the area of the triangle?



Ans: \_\_\_\_\_ cm<sup>2</sup>

25. Mother, Kenneth and his sister ate a cake. Kenneth ate  $\frac{1}{2}$  of what Mother ate and his sister ate  $\frac{3}{4}$  of what he ate. What fraction of the cake did Mother eat?

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. A group of children carried 2030 books to a library. Each boy carried 5 books and each girl carried 3 books. The boys carried 200 more books than the girls. How many girls were there?

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



27. Ryan's father is 32 years old. Ryan is  $\frac{1}{8}$  as old as his father.  
How old will Ryan be when his father is 5 times as old as he?

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

28. Arrange the following in order, beginning with the greatest.

$$2.408, 2\frac{2}{5}, 2.488, 2\frac{48}{100}$$

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

29. A rectangle has a perimeter of 48 cm. Its length is 3 times as long as its breadth. Find the length of the rectangle.

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

30. 300 pupils took part in the NAPHA test in April. The table below shows the results of the NAPHA test.

Badges	No. of pupils
Gold	33
Silver	53
Bronze	154

What is the ratio of the the number of pupils who were awarded the badges to the number of pupils who were not awarded the badges?

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



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Mathematics

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

Duration : 1 h 40 min

Date : 5 May 2009

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

Paper 1	
Booklet A ( 20 marks )	
Booklet B ( 20 marks )	
Paper 2	
Q1 – 5 (10 marks)	
Q6 -18 ( 60 marks ) 50	
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. (10 marks)  
You are allowed to use a calculator.

1. The scoring system in a game is shown in the table below.

First 50 stickers collected	70 points
Next 50 stickers collected	2 points per sticker
Additional stickers above 100	3 points for every 5 stickers

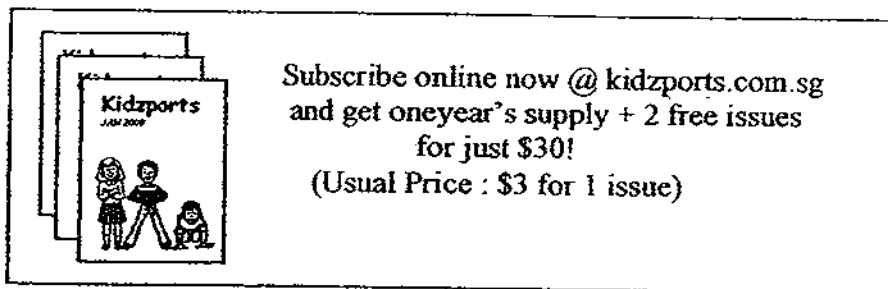
Valerie collected 122 stickers. How many points did she get in all?

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

2. Jun Rong saved \$ 235 more than Johnathan.  $\frac{1}{4}$  of Jun Rong's savings is the same as  $\frac{2}{3}$  of Johnathan's savings. How much did Jun Rong save ?

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

3. The picture below shows the promotion flyer for Kidzports magazine.



If Kidzports magazine is published monthly, how much cheaper is 1 issue during the promotion compared to the usual price?  
Round off your answer to the nearest 2 decimal places.

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

4. The total cost of 2 shirts and 6 blouses is \$ 286 . The total cost of 5 shirts and 3 blouses is \$ 376. Find the cost of each shirt .

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

5. At the P5 camp, 270 pupils tried the "Flying Fox". For every 15 pupils who tried, 9 pupils cried. How many pupils did not cry at the "Flying Fox" station?

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

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. Wen Hao had 420 beads fewer than Jun Lin. If Wen Hao gave 240 beads to Jun Lin, Jun Lin would have thrice as many beads as Wen Hao. How many beads had Jun Lin at first ?

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

7. Susan and Teng Suan have \$ 748. Teng Suan and Bing Long have \$ 920. Susan has  $\frac{5}{7}$  of the money that Bing Long has. How much does Teng Suan have ?

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

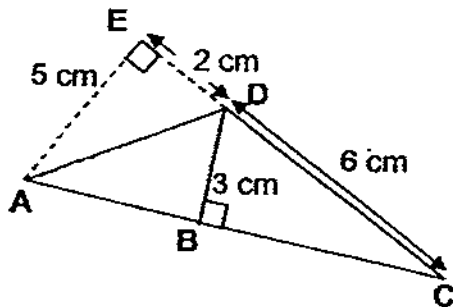
8.

Moonsaver Plan	
Monthly Subscription	\$25.68
Free Talktime	100 min
Talktime rate	15.5¢ per minute

The table above shows the mobile plan that Wen Xiang subscribes to. Wen Xiang used his handphone for 150 min in the month of April. How much was his April bill?

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

8. The figure below is not drawn to scale. What is the length of  $AC$ ?



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

10. There were 72 pupils in the school hall at first. Then another 15 boys and 21 girls walked into the school hall. The ratio of the number of boys to the number of girls became 4 : 5. How many boys were there in the school hall at first?

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

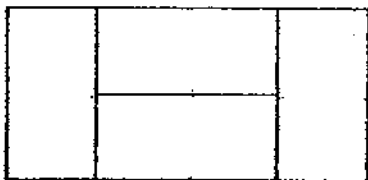
11. In a bag, there were red, yellow and blue marbles. There were twice as many red marbles as yellow marbles and twice as many yellow marbles as blue marbles at first. After removing 15 blue marbles and some yellow marbles from the bag, the number of red marbles became thrice that of the yellow marbles but the number of yellow marbles was still twice that of the blue marbles. What was the total number of marbles in the bag at first?

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

12. Mrs Wong bought some muffins and cakes for a party. The cost of a muffin was \$2.50 and the cost of a cake was \$1.80. The total amount spent was \$163. She bought 5 more muffins than cakes. How many muffins did she buy?

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

13. The figure below is made up of 4 identical rectangles.  
The perimeter of the figure is 216 cm. Find the area of the figure.



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

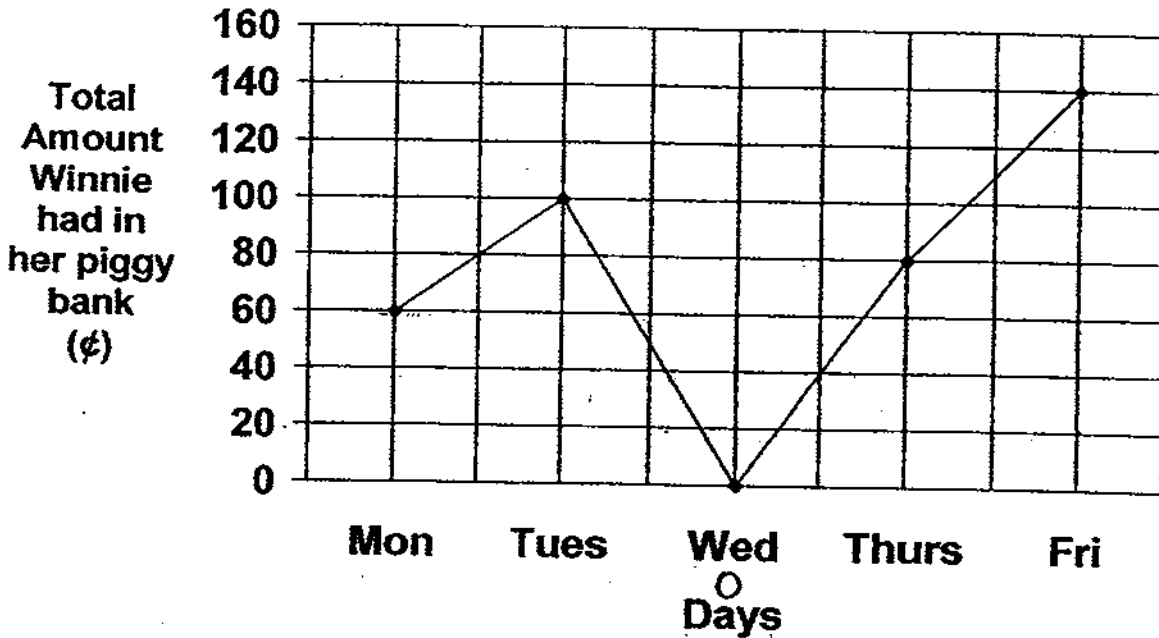


14. Jasmine had 46 ten-cent, twenty-cent and fifty-cent coins which add up to \$14.60. There were 9 ten-cent coins and the rest were twenty-cent coins and fifty-cent coins. How many 20¢ and 50¢ coins were there ?

Ans : Fifty-cent coins: \_\_\_\_\_

Twenty-cent coins: \_\_\_\_\_ [4]

15. Winnie started saving in her piggy bank on Monday. The graph below shows the total amount of money that Winnie had in her piggy bank from Monday to Friday.



- a) How much money did Winnie save on Tuesday?

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

- b) On which day did Winnie save the most?

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

- c) If Winnie gets \$3 from her mother every day, how much did she spend on Wednesday?

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

16. Tom and Jerry each has some money. If Tom spends \$ 90 per day and Jerry spends \$ 45 per day, Tom will have \$ 1100 left when Jerry has spent all his money. If Tom spends \$ 45 each day and Jerry spends \$ 90 each day, Tom will have \$ 1700 left when Jerry has spent all his money. How much did Jerry have?

Ans : \_\_\_\_\_ [5]

17. Andy, Betty, Candy and Danny each have some money. The amount of money Andy has is  $\frac{1}{3}$  of the total amount of money Betty, Candy and Danny have. The amount of money Betty has is  $\frac{1}{4}$  of the total amount of money Andy, Candy and Danny have. The amount of money Candy has is  $\frac{1}{5}$  of the total amount of money Andy, Betty and Danny have. If Danny has \$ 1725, how much do they have altogether?

Ans: \_\_\_\_\_ [5]

18. Mr Seng spent \$60 on some apples, mangoes and pears in the ratio 3 : 5 : 2. The number of apples was twice the number of mangoes. The number of pears was  $\frac{1}{3}$  the number of apples. The mangoes were sold at 3 for \$5.

How many fruits did he buy altogether?

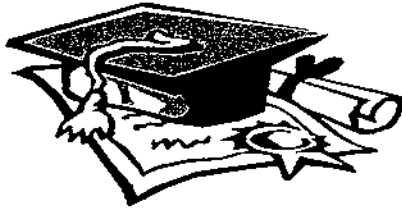
Ans : \_\_\_\_\_ [5]

*Remember to check your work!  
Every mark counts.*

*–End of Paper –*

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# ANSWER SHEET

EXAM PAPER 2009

SCHOOL : MAHABODHI PRIMARY SCHOOL

SUBJECT : PRIMARY 5 MATHEMATICS

TERM : SA 1

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

16) 76401

17) 123546

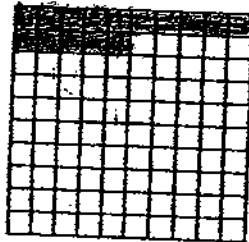
18) 24

19) \$7000

20) 15

21) 2.813

22)



23) 5h 5 min

24) 30cm<sup>2</sup>

25) 8/15

26) 305 girls

27) 7

28) 2.488,  $\frac{248}{100}$ , 2.408,  $\frac{22}{5}$

29) 18cm

30) 4:1

## Paper 2

1) 182 points	2) 5 units = \$235 8 units = $\frac{235 \times 8}{5} = \$376$ Jun Rong saved \$376
3) $\$(30 \div (12 + 2)) = 2.143$ $\$(3 - 2.143) = \$0.857$ = \$0.86	4) cost of (10 - 2) shirts = $\$(376 - 286) = \$466$ cost if each shirt = $\$(466 \div 8)$ = \$58.25

<p>5) <math>270 \div 15 = 18</math>  <math>18 \times (15 - 9) = 108</math>  108 pupils did not cry.</p>	<p>6) <math>2 \text{ units} = 240 + 420 + 240 = 900</math>  <math>3 \text{ units} = \frac{3 \times 900}{2} = 1350</math>  Jun Lin had <math>\rightarrow 1350 - 240 = 1110</math> beads.</p>
<p>7) <math>2 \text{ units} = \\$ (920 - 748) = \\$172</math>  Susan have <math>\\$ \left( \frac{172 \times 5}{2} \right) = \\$430</math>  Teng Suan have <math>\\$ (748 - 430) = \\$318</math></p>	<p>8) <math>150 - 100 = 50</math>  <math>50 \times 15.50 = 775\text{C} = \\$7.75</math>  He paid <math>\rightarrow \\$ (25.68 - 7.75) = \\$33.43</math></p>
<p>9) Area of <math>\triangle ACD = 5 \times 6 / 2 = 15\text{cm}^2</math>  <math>3 \times AC / 2 = 15\text{cm}^2</math>  <math>3 \times AC = 15 \times 2</math>  <math>AC = 30 / 3 = 10\text{cm}</math></p>	<p>10) <math>(4 + 5) \text{ units} = 72 + 15 + 21 = 108</math>  <math>4 \text{ units} = \frac{108 \times 4}{9} = 48</math>  There were <math>\rightarrow 48 - 15 = 33</math> boys in the school hall at First.</p>
<p>11) <math>1 \text{ unit} = 15</math>  <math>(12 + 6) \text{ units} = 15 \times 21 = 315</math>  There were 315 marbles in the bag.</p>	<p>12) 40 muffins</p>
<p>13) <math>1 \text{ unit} = (216 / 2) \div 6 = 18</math>  <math>2 \text{ units} = 18 \times 2 = 36</math>  The breadth is 36cm.  Area of figure <math>= 36 \times (36 \times 2) = 2592\text{cm}^2</math></p>	<p>14) Fifty-cent coins: 21  Twenty-cent coins: 16</p>
<p>15) a) 40¢  b) Thursday  c) \$4</p>	<p>16) <math>3u = \\$1700 - \\$1100 = 600</math>  <math>2u = \frac{\\$600 \times 2}{3} = \\$400</math></p>



17) Andy: Total = 1:4 = 15 : 60  
 Betty: Total = 1:5 = 12: 60  
 Candy: Total = 1:6 = 10 : 60  
 Danny = 60 - 15 - 12 - 10  
 = 23 units  
 23u = \$1725  
 60u =  $\frac{\$1725 \times 60}{23}$   
 = \$4500

18) A : M : P  
 = 3 : 5 : 2  
 10u = \$60  
 5u =  $\frac{\$60 \times 5}{10}$  = \$30  
 $\frac{30}{5} \times 3 = 18$  mangoes  
M : A : P  
 = 3 : 6 : 2 = 11u  
 3u = 18  
 11u =  $\frac{18 \times 11}{3}$   
 = 66 fruits.

