

Weekly Questions (25.04.13)

1. Angela bought some cupcakes. Each cupcake cost \$2. For every 6 cupcakes Angela bought, she was given 1 free cupcake. If Angela bought 47 cupcakes altogether, what was the total amount of money she spent?

Solution:

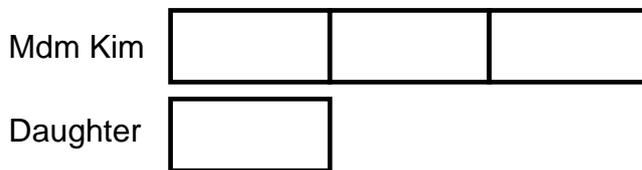
Cost of 6 cupcakes → \$12
1 group → 7 cupcakes (\$12)
 $47 \div 7 = 6$ groups R 5 cupcakes
6 groups → $\$12 \times 6 = \72
5 cupcakes → $\$2 \times 5 = \10
Total amount of money spent → $\$72 + \$10 = \$82$

Ans: Angela spent a total of \$82.

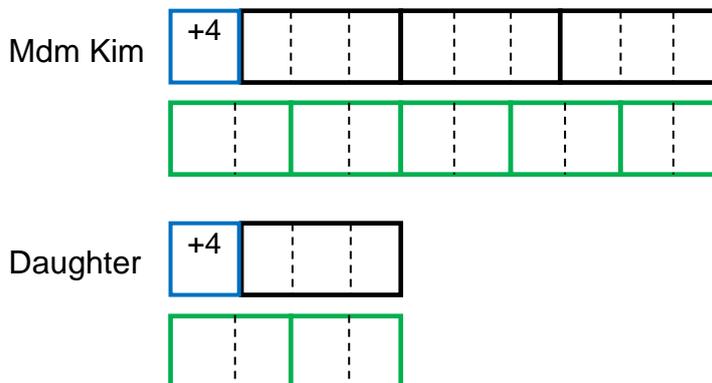
2. Two years ago, Mdm Kim was thrice as old as her daughter. In two years' time, her daughter will be $\frac{2}{5}$ as old as her. How old is Mdm Kim now?

Solution:

2 years ago,



2 years later,

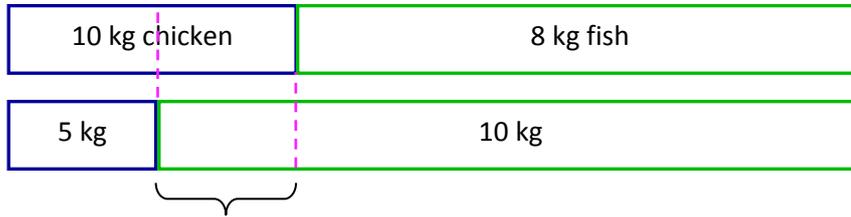


1 unit → 4 years
10 units → 40
 $40 - 2 = 38$

Ans: Mdm Kim is 38 years old now.

3. Mrs Tan had just enough money to buy 10 kg of chicken and 8 kg of fish. Instead, she bought 5 kg of chicken and 10 kg of fish. If Mrs Tan decided to **spend all her money on chicken only**, how many kilograms of chicken could she buy?

Solution:



5 kg chicken → 2 kg fish

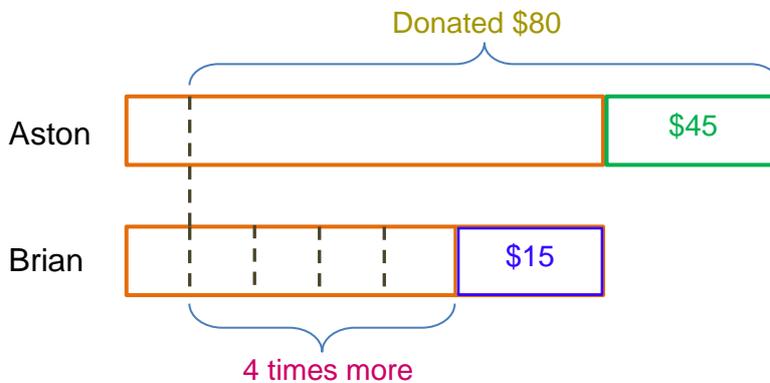
20 kg chicken → 8 kg fish

Weight of chicken → 20 + 10 = 30 kg

Ans: She could buy 30 kg of chicken.

4. Aston and Brian had an equal sum of money at first. **Aston received \$45** from his mother. Later, **Aston** and **Brian** donated **\$80** and **\$15** to charity respectively. In the end, Brian had **4 times more** money than Aston. How much money did Brian have at first?

Solution:



4 units → $\$80 - \$45 - \$15 = \20

1 unit → \$5

5 units → \$25

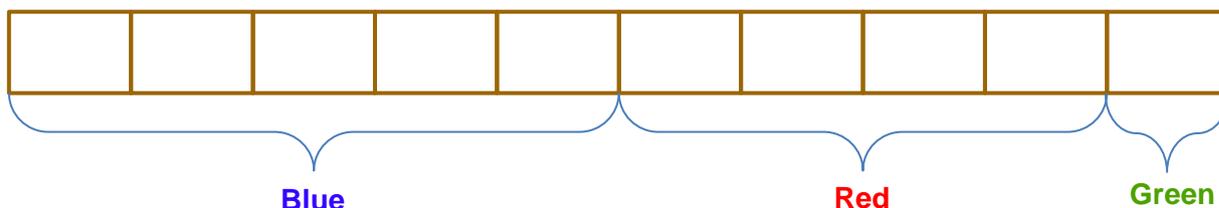
Brian's money at first → $\$25 + \$15 = \$40$

Ans: Brian had \$40 at first.

5. Miss Chin bought some markers from a bookshop. Of the markers, 0.5 of them were blue markers while $\frac{2}{5}$ of them were red markers. The rest were green markers. If Miss Chin bought 48 fewer green markers than red markers, how many markers did she buy altogether?

Solution:

$$0.5 = \frac{5}{10}; \frac{2}{5} = \frac{4}{10}$$



Green : 1 unit ; Red : 4 units

$$4 - 1 = 3 \text{ units}$$

$$3 \text{ units (or } \frac{3}{10}) \rightarrow 48$$

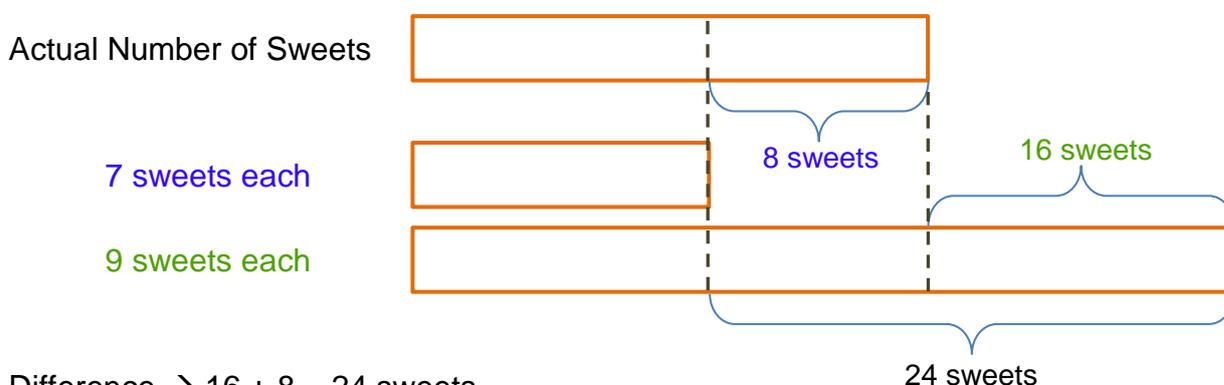
$$1 \text{ unit} \rightarrow 16$$

$$10 \text{ units} \rightarrow 160$$

Ans: Miss Chin bought 160 markers altogether.

6. Wendy bought some sweets for her friends. If she gives 7 sweets to each of her friends, she would have 8 sweets remaining. If she gives 9 sweets to each of her friends, she would need another 16 sweets.
- (a) How many friends did Wendy have?
 (b) How many sweets did Wendy buy?

Solution:



$$\text{Difference} \rightarrow 16 + 8 = 24 \text{ sweets}$$

$$9 - 7 = 2 \text{ sweets}$$

$$\text{Number of friends} \rightarrow 24 \div 2 = 12$$

$$\text{Number of sweets} \rightarrow 7 \times 12 + 8 = 92$$

Ans: (a) Wendy had 12 friends, (b) Wendy bought 92 sweets.