

## Dividing in a Ratio Worded Problems

(a) Yusuf and Zohra have earned £50 in a bake sale. They want to share the money in the ratio 2 : 3. How much money does each person receive?

(b) Tina has a bag of 42 sweets. The sweets are either orange or pear flavour and the ratio of orange to pear sweets is 5 : 2. Find the number of orange sweets and the number of pear sweets in the bag.

(a) Yusuf £20  
Zohra £30

(b) Orange 30  
Pear 12

(a) There are 30 students in a class. The ratio of boys to girls is 3 : 7. Find the number of boys and the number of girls in the class.

(b) Concrete is made by mixing cement and sand in the ratio 9 : 4. How many kilograms of cement and sand are needed to make 65 kg of concrete?

(a) Boys 9  
Girls 21

(b) Cement 45kg  
Sand 20kg

(a) A drawer contains knives, forks and spoons in the ratio 4 : 2 : 3. There are 72 items of cutlery in total. Find the number of knives, forks and spoons in the drawer.

(b) Doggy daycare has 60 dogs. There are small, medium and large dogs in the ratio 5 : 3 : 4. Work out how many of each size of dog there are.

(a) Knives 32  
Forks 16  
Spoons 24

(b) Small 25  
Medium 15  
Large 20

(a) A tennis club has 130 members that are either adults or children. Monthly membership fees are £12 for adults and £5 for children. If the ratio of adults to children is 10 : 3, work out the total amount earned in membership fees per month.

(b) Ollie has a jar that contains 5 pence and 10 pence coins. There are 195 coins in the jar. If the ratio of 5 pence coins to 10 pence coins is 6 : 7, what is the value of all the money in the jar?

(a) Adults  $100 \times £12$   
Children  $30 \times £5$   
Total = £1350

(b) 5pence  $90 \times 5 = 450$   
10pence  $105 \times 10 = 1050$   
Total 1500p  
or £15