

Marks are given for showing your calculations.

The answer is only worth **1 mark**.

Follow the steps - show your calculations.

Write your answer as a sentence.

**Using a Ratio to Share Out a Quantity**

- 1 Two children share out 96 sweets in the ratio 5 : 7. Calculate how many sweets each child will receive.
- 2 Three people share a lottery prize of £2,400 in the ratio 1 : 5 : 6. How much will each person receive?
- 3 On a farm there are cows, sheep and pigs in the ratio 7 : 5 : 3. If the farm has 300 animals altogether calculate how many cows, sheep and pigs there are.
- 4 A prize of £60,000 is shared between 3 sisters in the ratio of their ages. If the sisters are 3, 7 and 10 respectively calculate how much they will each receive?
- 5 Three people share a lottery prize of £48,000 in the ratio 1 : 4 : 3. How much will each person receive?

**Using One Quantity to Find Another**

- 6 In a school the ratio of boys to girls is 3 : 4. If there are 180 boys calculate how many girls there are.
- 7 Helen, Bob and Mary share a sum of money in the ratio 1 : 3 : 2. If Bob gets £9.60 find out how much Helen and Mary received?
- 8 In a company the ratio of men to women is 5 : 7. If there are 42 women calculate how many men there are.
- 9 At a language school the ratio of females to males is 5:3. If there are 150 females at the school find the number of men.
- 10 (i) A metal alloy consists of aluminium, copper and tin mixed in the ratio 7 : 5 : 3. Calculate how much of each metal there would be in 450 g of the alloy.  
(ii) In another piece of the same alloy there is 60 g of copper. Calculate the quantities of aluminium and tin.