

## Ratio

1. Share £300 into the ratio 2 : 3
2. Share £375 into the ratio 3 : 4 : 8
3. Share £750 into the ratio 1 : 3 : 8
4. A shop sells bottles of coke and lemonade in the ratio 3 : 7. If the shop sells a total of 240 bottles of coke and lemonade, how many bottles of coke are sold?
5. Concrete is made from sand, gravel and cement in the ratio 3 : 4 : 1. How much sand is there in 3200 kg of concrete?
6. Sue and Sam share the winnings from a raffle in the ratio 7 : 8. If Sam's share is £240, what is the value of Sue's share?
7. An engine uses petrol and oil in the ratio 20 : 1. How much oil is required for 8 litres of petrol?
8. In a school there are 1098 pupils and 78 teachers. Calculate the pupil : teacher ratio in the form  $n : 1$  where  $n$  is correct to 2 decimal places.
9. Sally splits her wages into SAVINGS : MONEY TO SPEND HAVING FUN : MONEY FOR GENERAL LIVING into the ratio 1 : 4 : 7. Sally's take-home pay is £228 a week. How much money does she spend HAVING FUN?
10. William and Cathy invest £4000 and £7000 into a business and agree to share any profit in this ratio. The business makes £756 profit. To the nearest pound, what will Cathy receive?
11. Bill Goodsoil's garden has a  $48 \text{ m}^2$  lawn and  $14 \text{ m}^2$  pond. He decides to spend £156 improving his lawn and pond in the same ratio as their areas. How much to the nearest pound will he spend on the pond?
12. In an election the votes are split between the three candidates, X, Y and Z, into the ratio 3 : 6 : 7. If 24000 votes are cast, how many people voted for Y?