

## Ratio

Have a go at the questions below. They get progressively more difficult. If you can do them all then you can do any ratio question they throw at you for GCSE maths. Oh and don't use a calculator for any of these.

1. Simplify the following ratios:

a) 12:6

b) 5:15

c) 10:100

d) 1.5:2

e)  $\frac{1}{3} : 1$

2. Split the following amounts into the ratios given:

a) £250 in the ratio 1:4

b) £330 in the ratio 5:6

c) 68 kg in the ratio 3:1

3. Steven and Jenny share a box of chocolates between them in the ratio 2:3. What fraction of the chocolates does Jenny eat?

4. Sarah has won  $\frac{3}{4}$  of her tennis matches this year. What is the ratio of her wins to losses?
  
5. Cathy and Tom split some money between them in the ratio 2:1. If Cathy received £70, how much did Cathy and Tom receive together in total?
  
6. In a recent test for students in year 11 the ratio of those that passed to those that didn't was 7:5. If 49 students passed the test then how many took the test in total?
  
7. Tariq is given £45 for his birthday. He spends some and saves the rest. He spends 4 times as much as he saves. How much money does Tariq spend and how much does he save?
  
8. Over a full season the ratio of wins to draws for a football team is 5:4. The ratio of draws to losses is 2:1. If the team win 15 matches, then how many matches have played in total?

9. Eva loves animals. She has dogs, cats and rabbits at home.

The ratio of dogs to cats is 1:2. The ratio of cats to rabbits is

3:4. What fraction of all of the animals are cats?

10. On a farm there are sheep, pigs and chickens. The

ratio of sheep to pigs is 3:7. The ratio of pigs to chickens is

14:5. What percentage of the animals on the farm are

sheep?