

### Ratio and Proportion Word Problems

- 1) Laura shares out 12 sweets. She gives Robert 1 sweet for every 3 sweets she takes. How many sweets does Robert get?
- 2) At the gym club there are 2 boys for every 3 girls. There are 30 children at the club. How many boys are there?
- 3) Miriam mixes 1 tin of red paint with 2 tins of white. She needs 9 tins of paint altogether. How many tins of red paint does she need?
- 4) There are 5 toffees to every 2 chocolates in a box of 28 sweets. How many chocolates are there in the box?
- 5) There are 24 fish in a pond. 6 are gold and 18 are black. What is the proportion of gold fish, as a percentage? Decimal? Fraction?
- 6) Hannah and Peter each have some Smarties in a jar. The table shows how many Smarties they have, and how many of these Smarties are red.

	Number of Smarties	Number of red Smarties
Hannah	440	40
Peter	540	45

Who has the greater proportion of red Smarties, Hannah or Peter?

- 7) Three bars of chocolate cost 90p. How much will six bars cost? And twelve bars?
- 8) 1 litre of fruit drink contains 200 ml of orange juice. How much orange juice is there in 1.5 litres of fruit drink?
- 9) £1 is worth 1.62 euros. How many euros will I get for £50?
- 10) Here are the ingredients for fish pie for two people:
  - Fish pie for two people
  - 250g fish
  - 400g potato
  - 25g butter
 I want to make a fish pie for three people. How many grams of fish should I use?