

Calculating bigger or smaller amounts

Understanding proportion can help in all kinds of calculations. It helps to work out the value or **amount of quantities** that are either **bigger or smaller** than the one you have information about.

Example: if the total cost of 3 packets of crisps is 75p, what is the cost of 5 packets?

1 packet is 25p ($75\text{p} \div 3$).
5 packets are £1.25 ($5 \times 25\text{p}$).

Find out the cost of 1 item (\div).
Work out the cost of the number you want (\times).
Check to see if the answer makes sense.

Now have a go at these questions:

1. If the cost of 5 rolls of camera film is £12.50, work out the cost of 8 rolls.
2. If the total cost of 15 tickets is £75, work out the cost of 8 tickets.
3. A recipe for flapjacks needs 60 g of oats and it makes 10 flapjacks.
What quantity of oats is needed to make 24 flapjacks?
4. This list of ingredients is enough to make oat cookies for 10 people.
How much of each ingredient would you need for 3 people?

200 g	margarine
10 drops	almond essence
10 tsp	golden syrup
250 g	rolled oats
100 g	brown sugar
200 g	wholewheat flour
1 tsp	baking powder

Now check your answers with the answer sheet.