

## **Your Turn**

## Section 1

Write down the multiplier for each percentage:

0.42

0.84

0.01

0.37

0.25

0.125

0.65

0.7 or 0.70

0.142

0.9 or 0.90

0.2 or 0.20

0.279

0.75

0.05

1.02



## Section 2

For each question, find the percentage of the given amount using a multiplier. You must show your workings. You must also include the units in your answer.

$$15 \div 100 = 0.15$$

$$0.15 \times 180 = 27$$

$$8 \div 100 = 0.08$$

$$0.08 \times 240 = 19.2$$
ml

$$11 \div 100 = 0.11$$

$$0.11 \times 5500 = £605$$

$$18 \div 100 = 0.18$$

$$0.18 \times 40 = £7.20$$

$$7 \div 100 = 0.07$$

$$0.07 \times 75 = 5.25$$
kg

$$0.29 \times 18 = 5.22$$
 litres

$$4 \div 100 = 0.04$$

$$0.04 \times 80 = 3.2$$
mm

$$2.5 \div 100 = 0.025$$

$$0.025 \times 800 = £20$$

$$12 \div 100 = 0.12$$

$$0.12 \times 148 = £17.76$$

$$27.5 \div 100 = 0.275$$

$$0.275 \times 90 = 24.75$$
 metres

a. Matthew saves 35% of the £12 pocket money he receives each week. How much money does he save per week?

$$0.35 \times 12 = £4.20$$

b. Leighton has a box containing 36 chocolates. He eats 25% of the chocolates. How many chocolates are left in the box?

$$25 \div 100 = 0.25$$

$$0.25 \times 36 = 9$$

$$36 - 9 = 27$$
 chocolates left.

Or

$$100 - 25 = 75$$

$$75 \div 100 = 0.75$$

$$0.75 \times 36 = 27$$
 chocolates left.

c. Nadia scored 65% in her Maths exam. The maximum score was 120. How many marks did Nadia score on the exam?

$$65 \div 100 = 0.65$$

$$0.65 \times 120 = 78 \text{ marks scored.}$$

d. A 400g tin of baked beans contains 5.5% protein. How many grams of protein are in the tin of baked beans?

$$5.5 \div 100 = 0.055$$

$$0.055 \times 400 = 22g$$

e. 850 students attend a secondary school. 62% of the students use the school bus to travel to school. How many students do not use the school bus?

$$62 \div 100 = 0.62$$

$$0.62 \times 850 = 527$$

Or

$$100 - 62 = 38$$

$$38 \div 100 = 0.38$$

f. Which is larger, 20% of 12 or 15% of 18?

$$20 \div 100 = 0.20$$

$$0.20 \times 12 = 2.4$$

$$0.15 \times 18 = 2.7$$

15% of 18 is larger.



## Challenge

An adult ticket for the aquarium costs £15.70.

A child ticket is half the price of an adult ticket.

Two parents and their 3 children go to the aquarium.

They use a voucher for 15% off the total cost of the tickets.

How much money do they save? You should give your answer correct to the nearest penny.

$$(15.70 \times 2) + (7.85 \times 3) = £54.95$$

$$0.15 \times 54.95 = £8.2425$$

£8.24 saved.