

1 Time intervals

Kirkby	10:52	11:27	12:02
Elmford	11:14	11:49	12:24
Haddon	11:38	12:13	12:48

- a) How long does the 10:52 from Kirkby take to get to Haddon?
- b) Sam gets to Elmford station at 11:30. He catches the next train. When does he get to Haddon?

a) $10:52$ to $11:38 = 46$ minutes
 b) the $11:49$ from Elmford, $12:13$

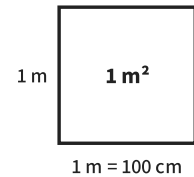
2 Converting metric units

- a) Change 0.65 kg to grams.
- b) Write these lengths in order, smallest first.
 1.2 m 115 cm 1090 mm

a) $0.65 \times 1000 = 650$ g
 b) 120 cm, 115 cm, 109 cm
 1090 mm, 115 cm, 1.2 m

3 Converting units of area and volume

- a) Change 2.4 m^2 to cm^2 .
- b) A floor is 360 cm long and 250 cm wide. Work out its area in m^2 .



a) $2.4 \times 100 \times 100 = 24\,000 \text{ cm}^2$
 b) $3.6 \times 2.5 = 9 \text{ m}^2$

4 Speed, distance and time

- a) A runner runs 400 m in 50 seconds. Work out her average speed in m/s.
- b) A drone flies at 12 m/s. How long does it take to fly 1.5 km? Give your answer in minutes and seconds.

a) $400 \div 50 = 8 \text{ m/s}$
 b) $1500 \div 12 = 125$ seconds
 = 2 min 5 s

5 Speed, distance and time

Ana cycles 18 km in 1 hour 30 minutes.

- a) Work out Ana's average speed.
- b) Ben cycles the same 18 km at 15 km/h. How many minutes less than Ana does he take?

a) $18 \div 1.5 = 12 \text{ km/h}$
 b) $18 \div 15 = 1.2 \text{ h} = 72 \text{ min}$
 $90 - 72 = 18$ minutes

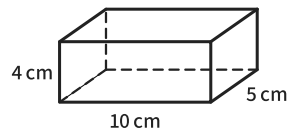
Measure revision mat answers

Foundation A

6 Density

This block of wood has a mass of 140 g.

- a) Work out its volume.
- b) Work out its density. Will it float in water? Water has a density of 1 g/cm^3 .



a) $10 \times 5 \times 4 = 200 \text{ cm}^3$
 b) $140 \div 200 = 0.7 \text{ g/cm}^3$
 Yes, 0.7 is less than 1

7 Pressure

pressure = $\frac{\text{force}}{\text{area}}$

- a) A force of 450 N acts on an area of 1.5 m^2 . Work out the pressure.
- b) A crate stands on a base of area 0.25 m^2 . It puts a pressure of 800 N/m^2 on the floor. Work out the force.

a) $450 \div 1.5 = 300 \text{ N/m}^2$
 b) $800 \times 0.25 = 200 \text{ N}$

8 Calculator answers: money and time

- a) A calculator shows 2.75 for a time in hours. Write the time in hours and minutes.
- b) Petrol costs £1.42 a litre. Jo buys 35 litres. The calculator shows 49.7. How much does Jo pay?

a) $0.75 \times 60 = 45$, 2 h 45 min
 b) £49.70