

1 Time intervals

Mill Lane	08:10	08:40	09:10
Park Road	08:25	08:55	09:25
Town Hall	08:45	09:15	09:45

- a) Which bus from Mill Lane gets to Town Hall at 09:15?
b) How many minutes does the bus take from Mill Lane to Park Road?

a) the 08:40 bus
b) 08:10 to 08:25 = 15 minutes

2 Converting metric units

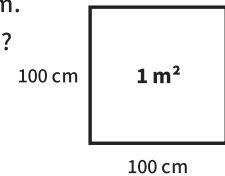
- a) 1 cm = 10 mm. Change 6 cm to millimetres.
b) 1 litre = 1000 ml. Change 2.5 litres to millilitres.

a) $6 \times 10 = 60 \text{ mm}$
b) $2.5 \times 1000 = 2500 \text{ ml}$

3 Converting units of area and volume

The square has sides of 1 m = 100 cm.

- a) How many cm^2 are there in 1 m^2 ?
b) Change 3 m^2 to cm^2 .



a) $100 \times 100 = 10\,000 \text{ cm}^2$
b) $3 \times 10\,000 = 30\,000 \text{ cm}^2$

4 Speed, distance and time

$\text{speed} = \frac{\text{distance}}{\text{time}}$ $\text{distance} = \text{speed} \times \text{time}$

- a) A bus travels 90 km in 2 hours. Work out its average speed in km/h.
b) A cyclist rides at 12 km/h for 3 hours. How far does she ride?

a) $90 \div 2 = 45 \text{ km/h}$
b) $12 \times 3 = 36 \text{ km}$

5 Speed, distance and time

$\text{time} = \frac{\text{distance}}{\text{speed}}$ 1 hour 30 minutes = 1.5 hours

- a) A runner runs 5 km at 10 km/h. How many minutes does she take?
b) Mo walks 6 km in 1 hour 30 minutes. Work out his average speed in km/h.

a) $5 \div 10 = 0.5 \text{ hours} = 30 \text{ minutes}$
b) $6 \div 1.5 = 4 \text{ km/h}$

Measure revision mat answers

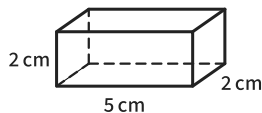
Foundation B

6 Density

$\text{density} = \frac{\text{mass}}{\text{volume}}$

This metal block has a mass of 60 g.

- a) Work out its volume.
b) Work out its density in g/cm^3 .



a) $5 \times 2 \times 2 = 20 \text{ cm}^3$
b) $60 \div 20 = 3 \text{ g/cm}^3$

7 Pressure

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

- a) A force of 200 N acts on an area of 4 m^2 . Work out the pressure.
b) The same force acts on an area of 2 m^2 . Work out the pressure. Is it bigger or smaller?

a) $200 \div 4 = 50 \text{ N/m}^2$
b) $200 \div 2 = 100 \text{ N/m}^2$, bigger

8 Calculator answers: money and time

- a) Ruby buys 3 drinks at £1.30 each. The calculator shows 3.9. How much does she pay?
b) A calculator shows 1.25 for a time in hours. 0.25 hours is a quarter of an hour. Write the time in hours and minutes.

a) £3.90
b) 1 hour 15 minutes