GCSE FOUNDATION · REVISION MAT 2

Scale drawings and maps

1 A map has a scale of 1 : 25 000.

Two towns are 6 cm apart on the map.

Work out the real distance between them in km.

2 A plan is drawn using a scale of 1 cm to 5 m.

A room is 18 m long.

How long is the room on the plan?

3 A map has a scale of 1 : 50 000.

Explain why 2 cm on the map represents 1 km in real life.

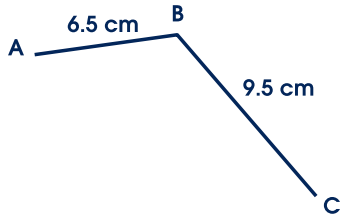
4 A model car is made using a scale of 1 : 25.

The model is 18 cm long.

Show that the real car is 4.5 m long.

5 A map has a scale of 1 : 50 000.

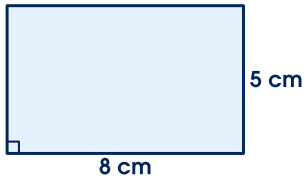
A path from A to C goes through B.



Jen walks from A to C at 4 km/h.

How long does it take her?

6 This plan of a lawn is drawn using a scale of 1 : 40.



Turf costs £12.00 per m^2.

Work out the cost of turf for the whole lawn.

ANSWERS · REVISION MAT 2

Scale drawings and maps

1 6 × 25 000 = 150 000 cm

= **1.5 km**

2 18 ÷ 5 × 1 = **3.6 cm**

3 2 × 50 000 = 100 000 cm

= **1 km** ✓

4 18 × 25 = 450 cm

= **4.5 m** ✓

5 Map distance = 16 cm

Real = 16 × 50 000 cm = 8 km

Time = 8 ÷ 4 = **2 hours**

6 Real lawn: 3.2 m × 2 m = 6.4 m^2

Cost = 6.4 × £12.00 = **£76.80**