GCSE FOUNDATION · REVISION MAT 4

Scale drawings and maps

1 A map has a scale of 1 : 20 000.

Two towns are 7.5 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 4 m.

A room is 11 m long.

How long is the room on the plan?

3 A map has a scale of 1 : 20 000.

Explain why 5 cm on the map represents 1 km in real life.

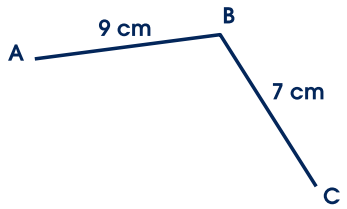
4 A model car is made using a scale of 1 : 20.

The model is 23 cm long.

Show that the real car is 4.6 m long.

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

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 : 50.



Turf costs £9.80 per m^2.

Work out the cost of turf for the whole lawn.

ANSWERS · REVISION MAT 4

Scale drawings and maps

1 7.5 × 20 000 = 150 000 cm

= **1.5 km**

2 11 ÷ 4 × 1 = **2.75 cm**

3 5 × 20 000 = 100 000 cm

= **1 km** ✓

4 23 × 20 = 460 cm

= **4.6 m** ✓

5 Map distance = 16 cm

Real = 16 × 25 000 cm = 4 km

Time = 4 ÷ 4 = **1 hours**

6 Real lawn: 3.5 m × 2 m = 7 m^2

Cost = 7 × £9.80 = **£68.60**