GCSE FOUNDATION · REVISION MAT 1

Scale drawings and maps

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

Two towns are 4 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 2 m.

A room is 7.5 m long.

How long is the room on the plan?

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

Explain why 4 cm on the map represents 1 km in real life.

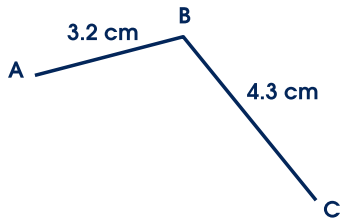
4 A model car is made using a scale of 1 : 40.

The model is 11 cm long.

Show that the real car is 4.4 m long.

5 A map has a scale of 1 : 200 000.

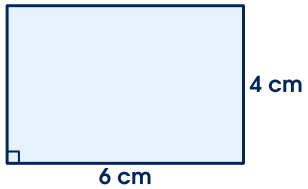
A path from A to C goes through B.



Jen walks from A to C at 5 km/h.

How long does it take her?

6 This plan of a lawn is drawn using a scale of 1 : 50.



Turf costs £8.50 per m^2.

Work out the cost of turf for the whole lawn.

ANSWERS · REVISION MAT 1

Scale drawings and maps

1 4 × 50 000 = 200 000 cm

= **2 km**

2 7.5 ÷ 2 × 1 = **3.75 cm**

3 4 × 25 000 = 100 000 cm

= **1 km** ✓

4 11 × 40 = 440 cm

= **4.4 m** ✓

5 Map distance = 7.5 cm

Real = 7.5 × 200 000 cm = 15 km

Time = 15 ÷ 5 = **3 hours**

6 Real lawn: 3 m × 2 m = 6 m^2

Cost = 6 × £8.50 = **£51.00**

Mr&Mrs MATHS