GCSE FOUNDATION · REVISION MAT 5

Scale drawings and maps

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

Two towns are 2.5 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 0.5 m.

A room is 3.2 m long.

How long is the room on the plan?

3 A map has a scale of 1 : 100 000.

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

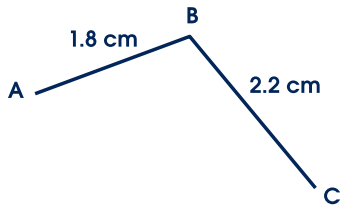
4 A model car is made using a scale of 1 : 60.

The model is 8 cm long.

Show that the real car is 4.8 m long.

5 A map has a scale of 1 : 250 000.

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 : 20.



Turf costs £15.00 per m^2.

Work out the cost of turf for the whole lawn.

ANSWERS · REVISION MAT 5

Scale drawings and maps

1 2.5 × 200 000 = 500 000 cm

= **5 km**

2 3.2 ÷ 0.5 × 1 = **6.4 cm**

3 1 × 100 000 = 100 000 cm

= **1 km** ✓

4 8 × 60 = 480 cm

= **4.8 m** ✓

5 Map distance = 4 cm

Real = 4 × 250 000 cm = 10 km

Time = 10 ÷ 5 = **2 hours**

6 Real lawn: 2 m × 1.2 m = 2.4 m^2

Cost = 2.4 × £15.00 = **£36.00**