GCSE FOUNDATION · REVISION MAT 3

Scale drawings and maps

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

Two towns are 3.5 cm apart on the map.

Work out the real distance between them in km.

2 A plan is drawn using a scale of 2 cm to 3 m.

A room is 9 m long.

How long is the room on the plan?

3 A map has a scale of 1 : 10 000.

Explain why 5 cm on the map represents 500 m in real life.

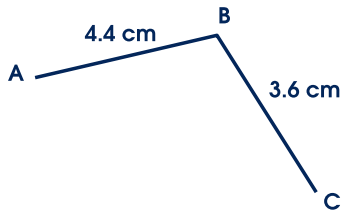
4 A model car is made using a scale of 1 : 50.

The model is 9 cm long.

Show that the real car is 4.5 m long.

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

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 : 100.



Turf costs £6.50 per m^2.

Work out the cost of turf for the whole lawn.

ANSWERS · REVISION MAT 3

Scale drawings and maps

1 3.5 × 100 000 = 350 000 cm

= **3.5 km**

2 9 ÷ 3 × 2 = **6 cm**

3 5 × 10 000 = 50 000 cm

= **500 m** ✓

4 9 × 50 = 450 cm

= **4.5 m** ✓

5 Map distance = 8 cm

Real = 8 × 100 000 cm = 8 km

Time = 8 ÷ 4 = **2 hours**

6 Real lawn: 5 m × 3 m = 15 m^2

Cost = 15 × £6.50 = **£97.50**

Mr&Mrs MATHS