Map scales

1 **Scale: 1 cm represents 3 km**

Two campsites are 6 cm apart on the map. Work out the real distance between them.

Map (cm)	Real (km)
1	3

×

2 **Scale: 1 cm represents 4 km**

A beach is 7.5 cm long on the map. Work out the real length of the beach.

Map (cm)	Real (km)

×

3 *Notice the change!* **Scale: 1 cm represents 5 km**

Two harbours are 35 km apart in real life. Work out the distance on the map.

Map (cm)	Real (km)
1	5

×

4 **Scale: 1 cm represents 4 km**

A canal is 18 km long. How long is it on the map?

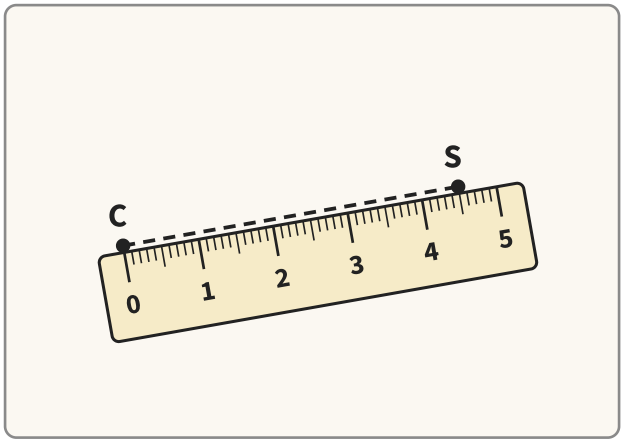
Map (cm)	Real (km)

×

Map scales

5 **Scale: 1 cm represents 2 km**

Use the ruler on the map to measure from the castle C to the station S. Work out the real distance.

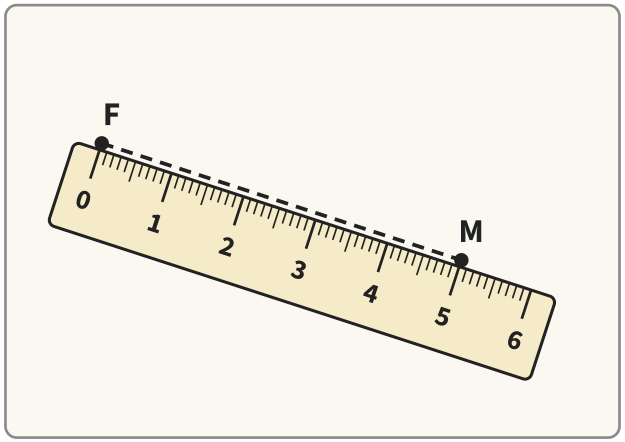


Map (cm)	Real (km)

×

6 **Scale: 1 cm represents 3 km**

Use the ruler on the map to measure from the farm F to the mill M. Work out the real distance.



Map (cm)	Real (km)

×

7

A map has a scale of 1 : 20 000. (a) What does 1 cm on the map represent, in metres? (b) A trail is 7 cm long on the map. How long is it in real life, in kilometres?

(a) 1 cm represents

_____

(b) The trail

_____

8 **Scale: 1 cm represents 6 km**

A river is 15 km long. Leo says it is 90 cm long on the map. Explain his mistake, then find the right length.

Leo's mistake

_____

Length on the map

_____

Map scales *further practice*

9 **Scale: 1 cm represents 2 m**

This is a plan of a school. A hall is 9.5 cm long on the plan. Work out the real length of the hall.

Map (cm)	Real (m)

×

10 **Scale: 1 cm represents 25 km**

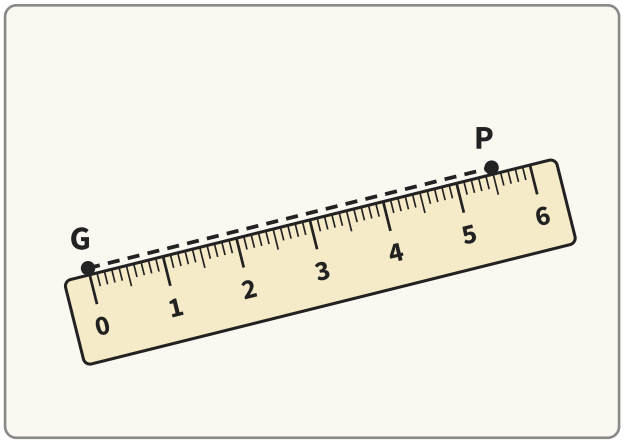
Two cities are 150 km apart in real life. How far apart are they on the map?

Map (cm)	Real (km)

×

11 **Scale: 1 cm represents 50 m**

The map shows a park. Use the ruler to measure from the gate G to the pond P.
Work out the real distance in metres.

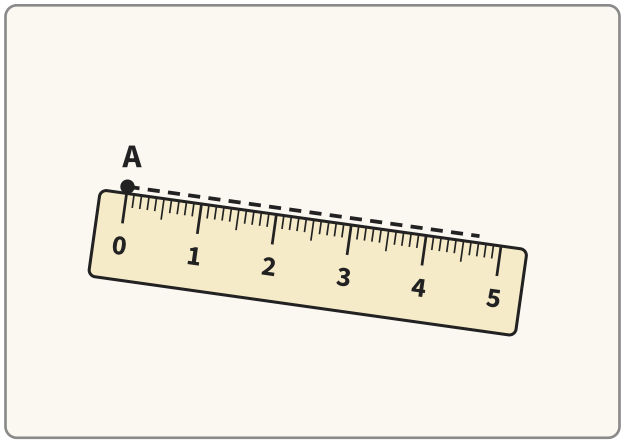


Map (cm)	Real (m)

×

12 **Scale: 1 cm represents 4 km**

B is 14 km from A along the dashed line.
Use the ruler to mark B on the map.



Map (cm)	Real (km)

×

Map scales *further practice*

13

A map has a scale of 1 : 100 000. A road is 4.5 cm long on the map. How long is the road in real life, in kilometres?

1 cm represents

The road

14

A map has a scale of 1 : 50 000. Two villages are 3 km apart in real life. How far apart are they on the map?

1 cm represents

3 km = 3000 m, so

15

On a map, a line 4 cm long represents 36 km. Complete the scale: 1 cm represents ___ km.

Working

Scale

16

Priya says a scale of 1 : 10 000 means 1 cm on the map represents 10 000 m. Explain her mistake. What does 1 cm represent?

Priya's mistake

1 cm represents