

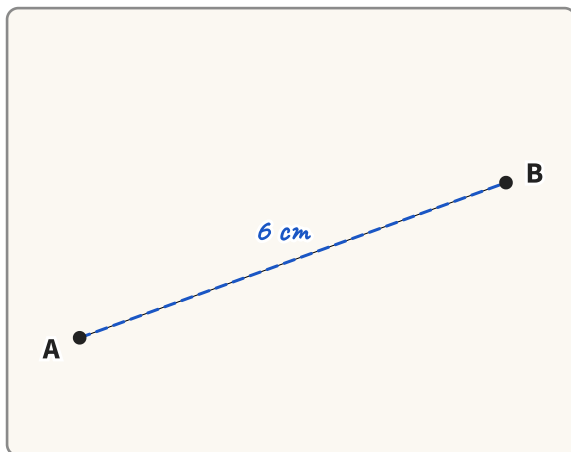
Map Scales: Measuring

ANSWERS

1

Scale: 1 cm represents 5 km

Measure the distance from A to B on the map.
Work out the real distance.



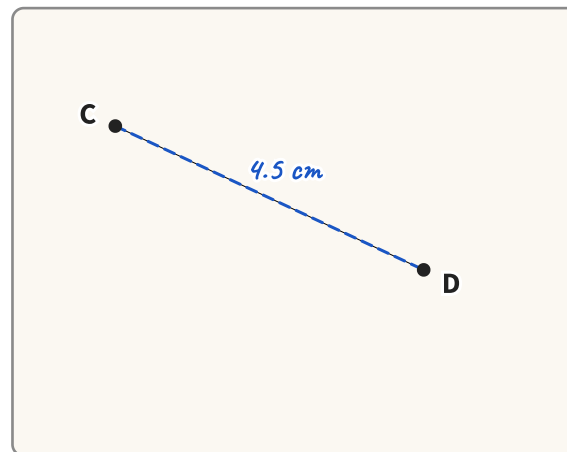
Map (cm)	Real (km)
1	5
6	30

× 6

2

Scale: 1 cm represents 4 km

Measure the distance from C to D on the map.
Work out the real distance.



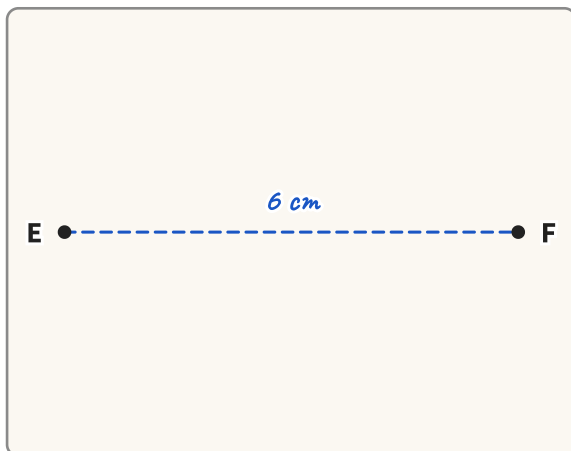
Map (cm)	Real (km)
1	4
4.5	18

× 4.5

3

Scale: 1 cm represents 10 km

Measure the distance from E to F on the map.
Work out the real distance.



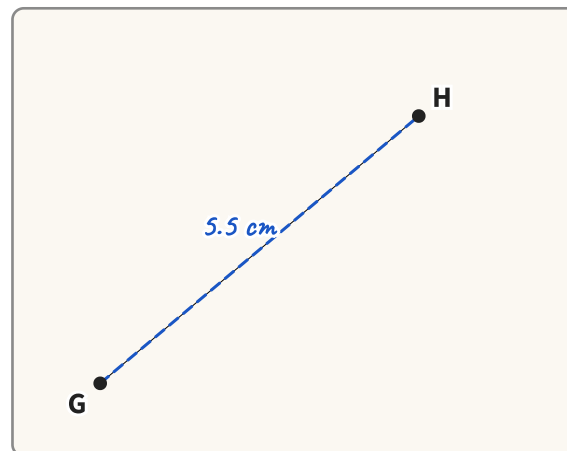
Map (cm)	Real (km)
1	10
6	60

× 6

4

Scale: 1 cm represents 2 km

Measure the distance from G to H on the map.
Work out the real distance.



Map (cm)	Real (km)
1	2
5.5	11

× 5.5

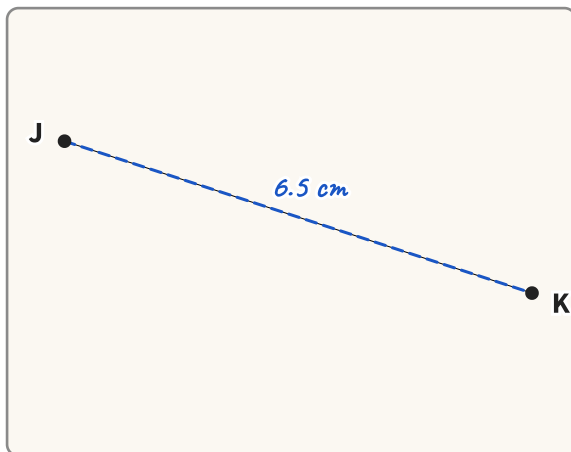
Map Scales: Measuring

ANSWERS

5

Scale: 1 cm represents 20 km

Measure the distance from J to K on the map.
Work out the real distance.



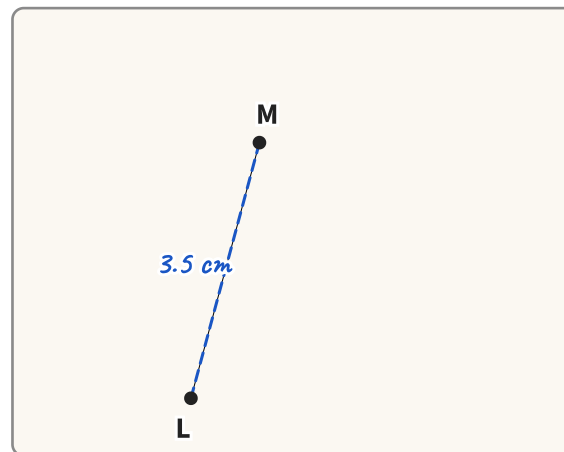
Map (cm)	Real (km)
1	20
6.5	130

× 6.5

6

Scale: 1 cm represents 50 km

Measure the distance from L to M on the map.
Work out the real distance.



Map (cm)	Real (km)
1	50
3.5	175

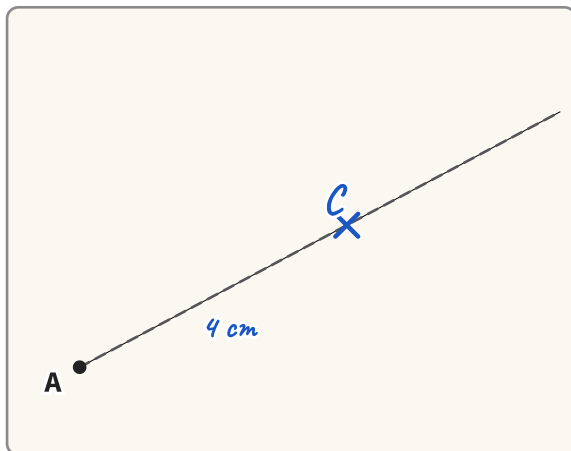
× 3.5

7

Notice the change!

Scale: 1 cm represents 5 km

C is 20 km from A along the dashed line.
Mark C on the map.



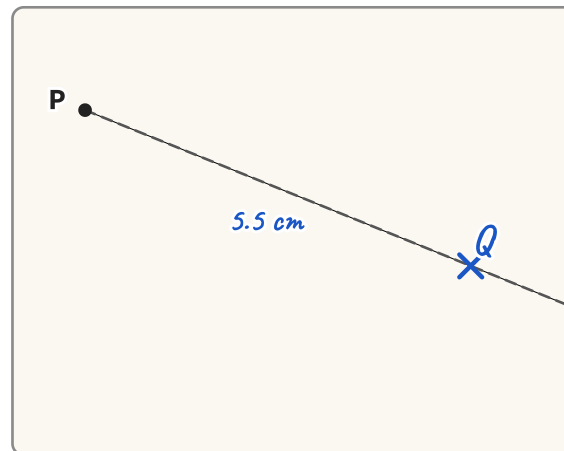
Map (cm)	Real (km)
1	5
4	20

× 4

8

Scale: 1 cm represents 10 km

Q is 55 km from P along the dashed line.
Mark Q on the map.



Map (cm)	Real (km)
1	10
5.5	55

× 5.5

Map Scales: Measuring *further practice*

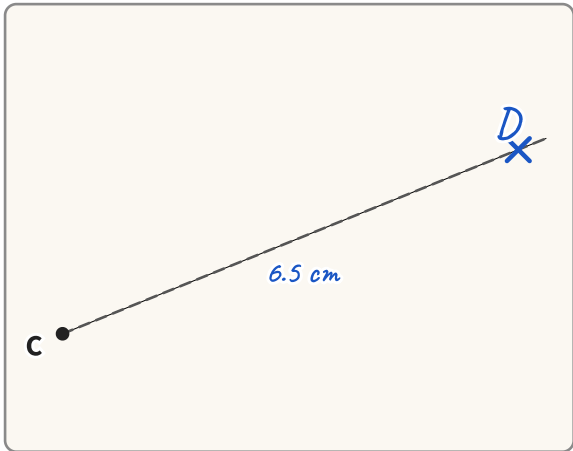
ANSWERS

9



Scale: 1 cm represents 4 km

D is 26 km from C along the dashed line. Mark D on the map.



Map (cm)	Real (km)
1	4
6.5	26

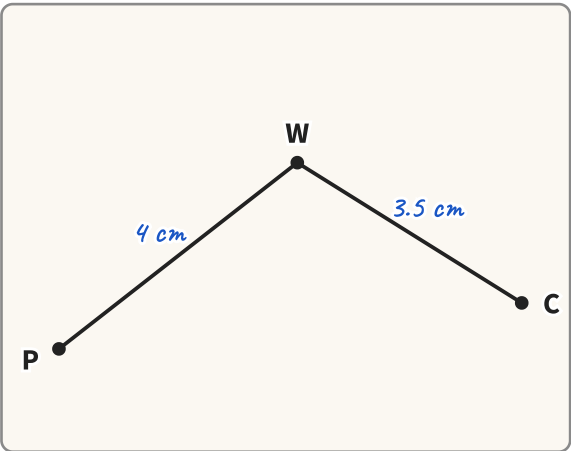
$\times 6.5$

10



Scale: 1 cm represents 2 km

A walk goes from the car park P to the waterfall W, then on to the café C. How far is the walk in real life?



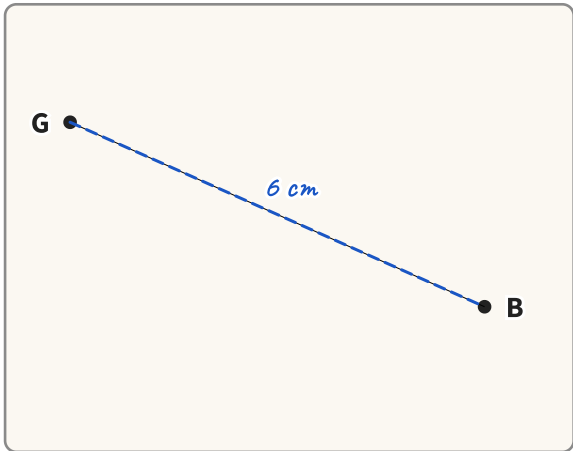
P to W	4 cm, so 8 km
W to C	3.5 cm, so 7 km
Total	15 km

11



Scale: 1 cm represents 200 m

The map shows a park. How far is the gate G from the bandstand B in real life? Give your answer in kilometres.



Map (cm)	Real (m)
1	200
6	1200

$\times 6$

In km

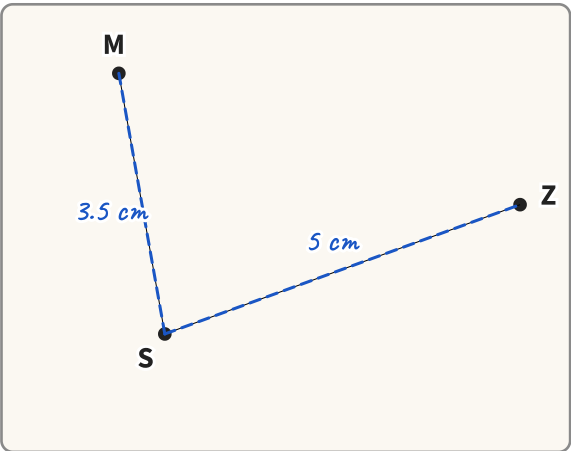
1.2 km

12



Scale: 1 cm represents 2 km

Which is closer to the station S: the museum M or the zoo Z? How much closer is it in real life?



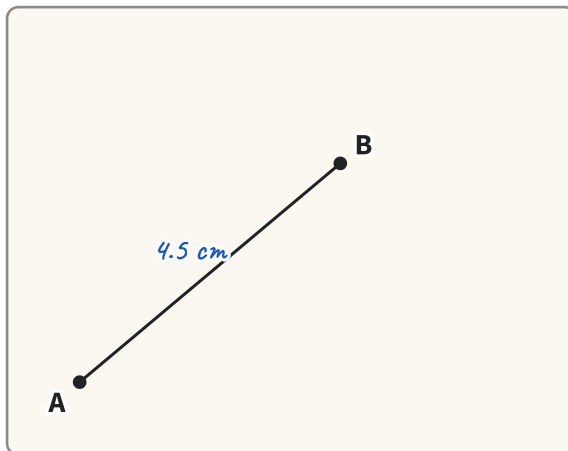
Closer	the museum
How much closer	3 km

Map Scales: Measuring *further practice*

ANSWERS

13

The real distance from A to B is 18 km. Measure AB and complete the scale.



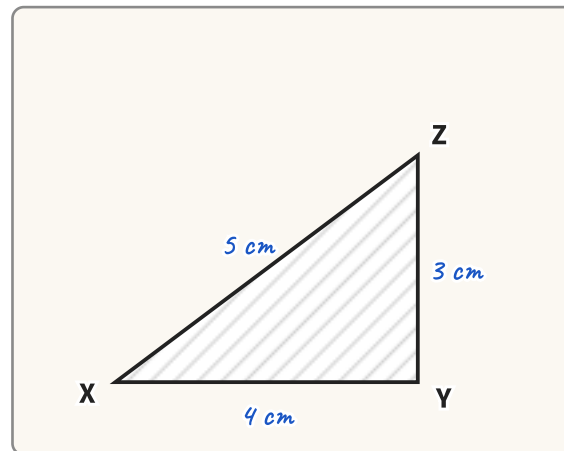
Map (cm)	Real (km)
4.5	18
1	4

Scale
1 cm represents 4 km

$\div 4.5$

14

The plan shows a field XYZ. A fence goes all the way round it. How long is the fence in real life?



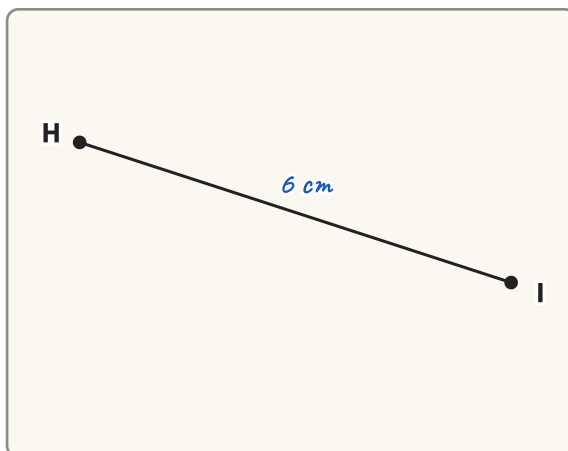
Scale: 1 cm represents 20 m

Sides
60 m, 80 m and 100 m

Fence
240 m

15

Measure the distance from the harbour H to the island I. Work out the real distance.



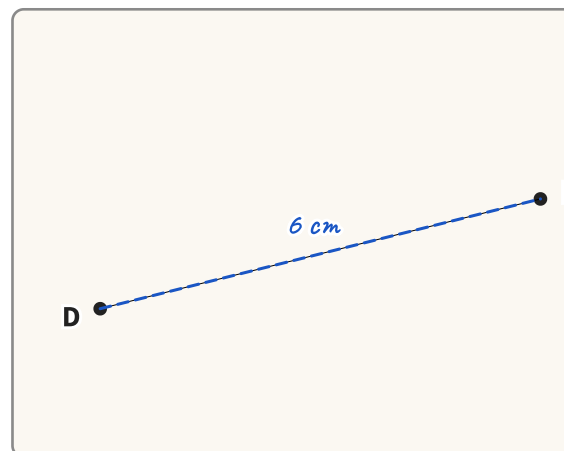
Map (cm)	Real (km)
2	5
6	15

Scale
1 cm represents 2.5 km

$\times 3$

16

A drone can fly 20 km on one charge. Can it fly from its base D to the farm F and back again on one charge? Explain.



Scale: 1 cm represents 1.5 km

D to F
6 cm, so 9 km

Answer
Yes: there and back is 18 km, less than 20 km