

GCSE Mathematics

F

Scale Diagrams & Maps

Foundation Tier | Grades 4-5

Total Marks	Time	Questions
56	56 min	20

Instructions:

- Do not use a calculator when you see: 
- Answer all questions in the spaces provided.
- Show all your working - marks are awarded for method as well as final answers.
- Cross through any work you do not want to be marked.
- Check your answers if you have time at the end.

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Edexcel-style questions**Q1**

Grade 4

Edexcel style

A map has a scale of 1:50000. The distance between two towns on the map is 8 cm. Find the real distance between the towns in km.

Answer _____

teachably

[2 marks]**Q2**

Grade 4

Edexcel style

A map has a scale of 1 cm : 2 km. The real distance between two points is 15 km. Find the distance between the points on the map.

Answer _____

teachably

[2 marks]**Q3**

Grade 5

Edexcel style

On a scale drawing, a wall of length 6 m is drawn as a line 3 cm long. Find the scale of the drawing in the form 1:n.

Answer _____

teachably

[3 marks]

Q4

Grade 5

Edexcel style

A garden is drawn on a scale diagram with a scale of 1:200. The area of the garden on the diagram is 15 cm^2 . Find the real area of the garden in m^2 .

Answer

teachably

[3 marks]**Q5**

Grade 5

Edexcel style

A map has a scale of 1:100000. Two towns are 6 cm apart on the map. A cyclist travels between the towns at an average speed of 15 km/h. How long does the journey take?

Answer

teachably

[4 marks]

AQA-style questions**Q6**

Grade 4

AQA style

A map has a scale of 1 cm : 5 km. The distance between two villages on the map is 6 cm. Find the real distance between the villages.

Answer _____

teachably

[2 marks]**Q7**

Grade 4

AQA style

A map has a scale of 1:100000. The real distance between two towns is 6 km. Find the distance between the towns on the map, in cm.

Answer _____

teachably

[2 marks]**Q8**

Grade 5

AQA style

On a map, a road of length 8 km is drawn as a line 4 cm long. Find the scale of the map in the form 1:n.

Answer _____

teachably

[3 marks]

Q9

Grade 5

AQA style

A floor plan has a scale of 1:50. The area of a room on the plan is 24 cm^2 . Find the real area of the room in m^2 .

Answer

teachably

[3 marks]**Q10**

Grade 5

AQA style

A map has a scale of 1 cm : 4 km. Two villages are 10 cm apart on the map. A car travels between the villages at an average speed of 40 km/h. How long does the journey take?

Answer

teachably

[4 marks]

OCR-style questions**Q11**

Grade 4

OCR style

A map has a scale of 1:20000. The distance between two points on the map is 12 cm. Find the real distance between the points in km.

Answer _____

teachably

[2 marks]**Q12**

Grade 4

OCR style

A map has a scale of 1 cm : 3 km. The real distance between two villages is 10.5 km. Find the distance between the villages on the map.

Answer _____

teachably

[2 marks]**Q13**

Grade 5

OCR style

A scale drawing shows a garden. A path of real length 15 m is drawn as a line 5 cm long. Find the scale of the drawing in the form 1:n.

Answer _____

teachably

[3 marks]

Q14

Grade 5

OCR style

A map has a scale of 1:1000. A car park has an area of 6 cm^2 on the map. Find the real area of the car park in m^2 .

Answer

teachably

[3 marks]**Q15**

Grade 5

OCR style

A map has a scale of 1:50000. Two towns are 14 cm apart on the map. A walker travels between the towns at an average speed of 5 km/h. How long does the journey take?

Answer

teachably

[4 marks]

Teachably-style questions**Q16**

Grade 4

Teachably style

A map has a scale of 1 cm : 4 km. The distance between two towns on the map is 9 cm. Find the real distance between the towns.

Answer _____

teachably

[2 marks]**Q17**

Grade 4

Teachably style

A map has a scale of 1:25000. The real distance between two points is 5 km. Find the distance between the points on the map, in cm.

Answer _____

teachably

[2 marks]**Q18**

Grade 5

Teachably style

On a map, a river of length 12 km is drawn as a line 3 cm long. Find the scale of the map in the form 1:n.

Answer _____

teachably

[3 marks]

Q19

Grade 5

Teachably style

A scale drawing has a scale of 1:150. The area of a swimming pool on the drawing is 10 cm^2 . Find the real area of the swimming pool in m^2 .

Answer _____

teachably

[3 marks]

Q20

Grade 5

Teachably style

A map has a scale of 1 cm : 2.5 km. Two points are 8 cm apart on the map. A cyclist travels between the points at an average speed of 20 km/h. How long does the journey take?

Answer _____

teachably

[4 marks]

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