3.11 Scale Drawings: 10-minute Pack

EDEXCEL 1MA1 · Calculator allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A toy truck is drawn at scale 1:25. The drawing shows the truck is 8 cm long. Work out the actual length of the truck in centimetres.

(Total for Question 1 is 1 mark)

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2 A scale drawing of Priya's bedroom is made using a scale where 1 cm represents 2 m. On the scale drawing, the length of the bedroom is 3 cm. Work out the actual length of the bedroom.

(Total for Question 2 is 2 marks)

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3 Write 1:125 as a statement giving how many metres 1 cm on the drawing represents.

(Total for Question 3 is 1 mark)

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4 On a scale drawing, 1 cm represents 40 m in real life. Write this scale as a ratio in the form 1:n.

(Total for Question 4 is 1 mark)

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5 A model car is built using a scale of 1 : 24. The real car is 4.8 m long. Which of these is the length of the model car, in cm?

- ☐ A) 20 cm
- ☐ B) 2 cm
- ☐ C) 0.2 cm
- ☐ D) 200 cm

(Total for Question 5 is 1 mark)

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6 On a map, 2 cm represents 15 km in real life.
Write the scale of the map in the form 1:n.

(Total for Question 6 is 3 marks)

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Mark scheme · 3.11 Scale Drawings: 10-minute Pack

Question 1

200 cm cao	**B1**

Answer: 200 cm (8 cm x 25 = 200 cm)

Question 2

3 x 2 (oe)	**M1**
6 m cao	**A1**

Answer: 6 m

Question 3

1.25 m cao	**B1**

Answer: 1.25 m

Question 4

1:4000 cao	**B1**

Answer: 1:4000

Question 5

A (20 cm) cao	**B1**

Answer: A) 20 cm

Question 6

15 km = 1500000 cm	**M1**
1500000 / 2	**M1**
1:750000	**A1**

Answer: 1:750000

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