3.6 Scale Drawings and Maps: 30-minute Pack

Calculators not allowed · about 30 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 The ratio of the length of a model to the length of the real plane is 20 : 79. Write this ratio in the form 1 : n.

(2)

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2 On a map with scale 1:25 000, what real distance does 4 cm represent? Give your answer in kilometres.

(1)

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3 On a map, 1 cm represents 0.5 km. A road is 8.9 cm long on the map. Work out the real length of the road in kilometres.

(2)

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4 A map has a scale of 1 : 2000. A path is 62 m long in real life. How long is it on the map in centimetres?

(3)

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5 The ratio of the length of a model to the length of the real plane is 5 : 9. Write this ratio in the form 1 : n.

(2)

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6 A town is 3.2 km from a station in real life. On a map with scale 1:10 000, calculate the map distance in centimetres.

(2)

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7 A scale drawing uses a scale of 5 cm to 10 m. A building is 130 m tall. How tall is the building on the drawing?

(2)

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8 A scale drawing uses a scale of 2 cm to 4 m. Write the scale in the form 1 : n.

(3)

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9 A plan of a room uses a scale of 1 : 20. The room is 4.4 m long in real life. How long is the room on the plan? Give your answer in centimetres.

(2)

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10 State the real distance represented by 1 cm on a map with scale 1:20 000.

(1)

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11 A garden is 15 m long in real life. It is drawn on a plan with scale 1:150. Find the length of the garden on the plan, in centimetres.

(2)

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12 A map scale is 1 cm = 1.5 km. What real distance does 4 cm represent?

(1)

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Mark scheme · 3.6 Scale Drawings and Maps: 30-minute Pack

Question 1

79 ÷ 20	M1
1 : 3.95 cao	A1

Answer: **1 : 3.95**

Question 2

1 km cao	B1

Answer: **1 km**

Question 3

8.9 x 0.5	M1
4.45 km cao	A1

Answer: **4.45 km**

Question 4

62 x 100 = 6200 cm	M1
÷ 2000	M1
3.1 cm cao	A1

Answer: **3.1 cm**

Question 5

9 ÷ 5	M1
1 : 1.8 cao	A1

Answer: **1 : 1.8**

Question 6

convert 3.2 km to cm or set up 3.2 km = 320000 cm and divide by 10 000	M1
32 cm cao	A1

Answer: **32 cm**

Question 7

130 ÷ 10 x 5	M1
65 cm cao	A1

Answer: **65 cm**

Question 8

4 m = 400 cm	M1
400 ÷ 2	M1
1 : 200 cao	A1

Answer: **1 : 200**

Question 9

4.4 x 100 = 440 cm, then ÷ 20	M1
22 cm cao	A1

Answer: **22 cm**

Question 10

200 m cao	B1

Answer: **200 m**

Question 11

convert 15 m to cm = 1500 cm	M1
10 cm cao	A1

Answer: **10 cm**

Question 12

6 km cao	B1

Answer: **6 km**

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