Scale Models, Drawings, and 3-D Objects — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A scale model is built at a scale of 1 to 20. A model length of 3 centimetres represents a real length, in centimetres, of**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A scale factor of 2 enlarges a shape of area 10 cm². The enlarged area, in cm², is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A scale factor of 2 enlarges a solid of volume 20 cm³. The enlarged volume, in cm³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A drawing uses a scale of 1 to 50. A real length of 200 centimetres is drawn as a length, in centimetres, of**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A map scale is 1 centimetre to 2 kilometres. A map distance of 7 centimetres represents a real distance, in kilometres, of**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A scale drawing uses 1 centimetre for every 4 metres. A wall 20 metres long is drawn as a line, in centimetres, of**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A model car at 1 to 24 scale is**

A smaller than the real car

B larger than the real car

C the same size as the real car

D twice the real car

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8 **A scale factor between 0 and 1 produces a**

A enlargement

B identical copy

C reduction

D reflection

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9 **A scale factor greater than 1 produces an**

- A reduction
- B enlargement
- C identical copy
- D rotation

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10 **A scale model is built at a scale of 1 to 50. A model length of 5 centimetres represents a real length, in centimetres, of**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **A scale factor of 3 enlarges a shape of area 12 cm². The enlarged area, in cm², is**

ANSWER _____

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12 **A scale factor of 2 enlarges a solid of volume 10 cm³. The enlarged volume, in cm³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **A drawing uses a scale of 1 to 100. A real length of 500 centimetres is drawn as a length, in centimetres, of**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **A map scale is 1 centimetre to 10 kilometres. A map distance of 9 centimetres represents a real distance, in kilometres, of**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **A scale drawing uses 1 centimetre for every 3 metres. A wall 18 metres long is drawn as a line, in centimetres, of**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **A scale model is built at a scale of 1 to 100. A model length of 2 centimetres represents a real length, in centimetres, of**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **A scale factor of 4 enlarges a shape of area 5 cm². The enlarged area, in cm², is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **A scale factor of 3 enlarges a solid of volume 8 cm³. The enlarged volume, in cm³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **A scale model is built at a scale of 1 to 25. A model length of 4 centimetres represents a real length, in centimetres, of**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **A scale factor of 5 enlarges a shape of area 4 cm². The enlarged area, in cm², is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **A scale model is built at a scale of 1 to 10. A model length of 6 centimetres represents a real length, in centimetres, of**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A scale factor of 2 enlarges a shape of area 30 cm². The enlarged area, in cm², is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A scale model is built at a scale of 1 to 50. A model length of 8 centimetres represents a real length, in centimetres, of**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **A scale model is built at a scale of 1 to 10. A model length of 11 centimetres represents a real length, in centimetres, of**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **A scale model is built at a scale of 1 to 20. A model length of 12 centimetres represents a real length, in centimetres, of**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 60
2. 40
3. 160
4. 4
5. 14
6. 5
7. A
8. C
9. B
10. 250
11. 108
12. 80
13. 5
14. 90
15. 6
16. 200
17. 80
18. 216
19. 100
20. 100
21. 60
22. 120
23. 400
24. 110
25. 240

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