Surface Area and Volume — Practice Test

Prince Edward Island Apprenticeship and Workplace Mathematics 11 • 25 questions

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 cube has side length 2 centimetres. What is its volume in cm³**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A cylinder has radius 2 centimetres and height 5 centimetres. Using 3.14 for pi, what is its volume in cm³, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A rectangular prism has length 5 centimetres, width 3 centimetres, and height 2 centimetres. What is its surface area in cm²**

ANSWER _____

Understand It with Pulse | Flag a mistake

4

A rectangular prism has length 5 centimetres, width 3 centimetres, and height 2 centimetres. What is its volume in cm³

ANSWER _____

Understand It with Pulse | Flag a mistake

5

A box that holds 24 units³ and has base area 6 units² has height

A 3 units

B 4 units

C 6 units

D 18 units

Understand It with Pulse | Flag a mistake

6 **A cone has what fraction of the volume of a cylinder with the same base and height**

- A one half
- B one third
- C twice
- D the same

Understand It with Pulse | Flag a mistake

7 **A cube has how many faces**

- A 6
- B 4
- C 8
- D 12

Understand It with Pulse | Flag a mistake

8 **A net of a solid shows its faces**

- A stacked
- B laid out flat
- C rotated only
- D scaled only

Understand It with Pulse | Flag a mistake

9 **A pyramid has what fraction of the volume of a prism with the same base and height**

- A one half
- B twice
- C one third
- D the same

Understand It with Pulse | Flag a mistake

10 **A sphere with radius r has volume**

- **A** πr^2
- **B** $\frac{4}{3}\pi r^3$
- **C** $4\pi r^2$
- **D** $\frac{1}{3}\pi r^2 h$

Understand It with Pulse | Flag a mistake

11 **A triangular prism has how many rectangular faces**

- **A** 2
- **B** 5
- **C** 6
- **D** 3

Understand It with Pulse | Flag a mistake

12 **Converting 2 metres to centimetres gives**

A 20

B 2000

C 2

D 200

Understand It with Pulse | Flag a mistake

13 **Converting 5000 millilitres to litres gives**

A 5

B 50

C 500

D 0.5

Understand It with Pulse | Flag a mistake

14 **Doubling every side length of a cube multiplies its volume by**

- A 2
- B 4
- C 8
- D 6

Understand It with Pulse | Flag a mistake

15 **Doubling every side length of a square multiplies its area by**

- A 2
- B 8
- C 6
- D 4

Understand It with Pulse | Flag a mistake

16 **One m^3 equals**

A 100 cm^3

B 1000 cm^3

C 10000 cm^3

D 1000000 cm^3

Understand It with Pulse | Flag a mistake

17 **One litre equals**

A 1000 cm^3

B 100 cm^3

C 10 cm^3

D 10000 cm^3

Understand It with Pulse | Flag a mistake

18 **A cube has side length 3 centimetres. What is its volume in cm^3**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **A cylinder has radius 3 centimetres and height 4 centimetres. Using 3.14 for pi, what is its volume in cm^3, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **A rectangular prism has length 6 centimetres, width 4 centimetres, and height 3 centimetres. What is its surface area in cm^2**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **A rectangular prism has length 6 centimetres, width 4 centimetres, and height 3 centimetres. What is its volume in cm^3**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A cube has side length 4 centimetres. What is its volume in cm^3**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A cylinder has radius 2 centimetres and height 7 centimetres. Using 3.14 for pi, what is its volume in cm^3, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **A rectangular prism has length 4 centimetres, width 4 centimetres, and height 5 centimetres. What is its surface area in cm^2**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **A rectangular prism has length 4 centimetres, width 4 centimetres, and height 5 centimetres. What is its volume in cm^3**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 8
2. 62.80
3. 62
4. 30
5. B
6. B
7. A
8. B
9. C
10. B
11. D
12. D
13. A
14. C
15. D
16. D
17. A
18. 27
19. 113.04
20. 108
21. 72
22. 64
23. 87.92
24. 112
25. 80

© 2026 Brett Robbins. All Rights Reserved.