Measurement, Surface Area, Volume and Capacity — Practice Test

Saskatchewan Workplace and Apprenticeship Mathematics 20 • 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 rectangular box is 3 cm long, 10 cm wide and 5 cm high. Its volume, in cm³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **The volume of a rectangular prism 7 m by 2 m by 8 m, in m³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Using pi equals 3.14, the surface area of a cone with radius 6 cm and slant height 4 cm, in cm², is approximately**

- A 452.16
- B 188.4
- C 75.36
- D 226.08

Understand It with Pulse | Flag a mistake

4 **A tank holds 4 m³ of water. Its capacity, in litres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **Using pi equals 3.14, the surface area of a cylinder with radius 4 cm and height 7 cm, in cm², is approximately**

- A 276.32
- B 351.68
- C 175.84
- D 50.24

Understand It with Pulse | Flag a mistake

6 **A rectangular box is 9 cm long, 10 cm wide and 5 cm high. Its volume, in cm³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **The volume of a rectangular prism 4 m by 3 m by 8 m, in m³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **Using pi equals 3.14, the surface area of a cone with radius 3 cm and slant height 4 cm, in cm², is approximately**

- A 113.04
- B 37.68
- C 65.94
- D 56.52

Understand It with Pulse | Flag a mistake

9 **A tank holds 5 m³ of water. Its capacity, in litres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **Using pi equals 3.14, the surface area of a cylinder with radius 4 cm and height 6 cm, in cm², is approximately**

- A 301.44
- B 251.2
- C 150.72
- D 50.24

Understand It with Pulse | Flag a mistake

11 **A rectangular box is 6 cm long, 10 cm wide and 5 cm high. Its volume, in cm³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **The volume of a rectangular prism 5 m by 7 m by 7 m, in m³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **Using pi equals 3.14, the surface area of a cone with radius 6 cm and slant height 8 cm, in cm², is approximately**

A 904.32

B 150.72

C 226.08

D 263.76

Understand It with Pulse | Flag a mistake

14 **A tank holds 3 m³ of water. Its capacity, in litres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **Using pi equals 3.14, the surface area of a cylinder with radius 4 cm and height 3 cm, in cm², is approximately**

- A 150.72
- B 75.36
- C 50.24
- D 175.84

Understand It with Pulse | Flag a mistake

16 **A rectangular box is 10 cm long, 10 cm wide and 5 cm high. Its volume, in cm³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **The volume of a rectangular prism 4 m by 7 m by 7 m, in m³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **Using pi equals 3.14, the surface area of a cone with radius 3 cm and slant height 12 cm, in cm², is approximately**

A 339.12

B 141.3

C 113.04

D 56.52

Understand It with Pulse | Flag a mistake

19 **A tank holds 2 m³ of water. Its capacity, in litres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **Using pi equals 3.14, the surface area of a cylinder with radius 4 cm and height 5 cm, in cm², is approximately**

- A 226.08
- B 251.2
- C 125.6
- D 50.24

Understand It with Pulse | Flag a mistake

21 **A rectangular box is 7 cm long, 10 cm wide and 5 cm high. Its volume, in cm³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **The volume of a rectangular prism 9 m by 5 m by 5 m, in m³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **Using pi equals 3.14, the surface area of a cone with radius 3 cm and slant height 8 cm, in cm², is approximately**

- A 226.08
- B 103.62
- C 75.36
- D 56.52

Understand It with Pulse | Flag a mistake

24 **A rectangular box is 4 cm long, 10 cm wide and 5 cm high. Its volume, in cm³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **The volume of a rectangular prism 5 m by 4 m by 7 m, in m³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 150
2. 112
3. B
4. 4000
5. A
6. 450
7. 96
8. C
9. 5000
10. B
11. 300
12. 245
13. D
14. 3000
15. D
16. 500
17. 196
18. B
19. 2000
20. A
21. 350
22. 225
23. B
24. 200
25. 140

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