PRINCE EDWARD ISLAND APPRENTICESHIP AND WORKPLACE MATHEMATICS 11 · UNIT A · 10 QUESTIONS

Surface Area and Volume — 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 rectangular prism has length 7 centimetres, width 2 centimetres, and height 3 centimetres. What is its volume in cm³**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A rectangular prism has length 8 centimetres, width 3 centimetres, and height 2 centimetres. What is its surface area in cm²**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Surface area measures the total area of**

A one face only

B all faces of a solid

C the interior only

D the base only

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4 **The base area of a prism times its height gives its**

A surface area

B perimeter

C volume

D diagonal

Understand It with Pulse | Flag a mistake

5 **The lateral area of a cylinder is**

- **A** $2\pi r h$
- **B** πr^2
- **C** $2\pi r$
- **D** $\pi r h$

Understand It with Pulse | Flag a mistake

6 **The surface area of a sphere with radius r is**

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

Understand It with Pulse | Flag a mistake

7 **The volume of a cylinder is π × radius² times**

- A diameter
- B circumference
- C height
- D surface area

Understand It with Pulse | Flag a mistake

8 **The volume of a rectangular prism is**

- A length × width × height
- B length + width + height
- C two × length + width
- D length × width only

Understand It with Pulse | Flag a mistake

9 **Units for volume are**

A square units

B linear units

C degrees

D cubic units

Understand It with Pulse | Flag a mistake

10 **A rectangular prism has length 8 centimetres, width 3 centimetres, and height 2 centimetres. What is its volume in cm³**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 42
2. 92
3. B
4. C
5. A
6. C
7. C
8. A
9. D
10. 48

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