YUKON WORKPLACE MATHEMATICS 10 (MWPM-10) · UNIT B · 10 QUESTIONS

Area, 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 **The diagram shows a right triangle with base 5 cm and height 12 cm. The area of the triangle, in cm², is**



- **A** 26
- **B** 60
- **C** 17
- **D** 30

Understand It with Pulse | Flag a mistake

2 The surface area of a cube with side length 3 cm, in cm^2, is

- **A** 27
- **B** 54
- **C** 18
- **D** 36

Understand It with Pulse | Flag a mistake

3 The volume of a rectangular prism 7 cm by 2 cm by 4 cm, in cm^3, is _____.

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **The volume of a cylinder with radius 2 cm and height 5 cm, using 3.14 for π , in cm³, is**

- A 125.6
- B 31.4
- C 62.8
- D 15.7

Understand It with Pulse | Flag a mistake

5 **The volume of a cone with radius 3 cm and height 8 cm, using 3.14 for π , in cm³, is**

- A 150.72
- B 226.08
- C 37.68
- D 75.36

Understand It with Pulse | Flag a mistake

6 **The surface area of a sphere with radius 3 cm, using 3.14 for π , in cm², is**

A 28.26

B 113.04

C 56.52

D 226.08

Understand It with Pulse | Flag a mistake

7 **A composite shape is made of a square 6 cm by 6 cm joined to a triangle with base 6 cm and height 4 cm. The total area of the shape, in cm², is**

A 48

B 36

C 60

D 24

Understand It with Pulse | Flag a mistake

8 **An object is made of two rectangular prisms: one 3 cm by 2 cm by 2 cm and one 2 cm by 2 cm by 2 cm. The total volume of the object, in cm^3, is ____.**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **The surface area of a rectangular prism 4 cm by 2 cm by 3 cm, in cm^2, is**

A 52

B 24

C 26

D 104

Understand It with Pulse | Flag a mistake

10 **An area of 0.5 m^2, in cm^2, is ____.**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. D
2. B
3. 56
4. C
5. D
6. B
7. A
8. 20
9. A
10. 5000

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