ARKANSAS GEOMETRY · UNIT 3 · 10 QUESTIONS

Trigonometry and Measurement — 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 right triangle has hypotenuse 25 and one leg 7. The other leg is**

- **A** 32
- **B** 18
- **C** 24
- **D** 20

Understand It with Pulse | Flag a mistake

2 The sine of 60° is

- A $\frac{1}{2}$
- B $\frac{\sqrt{3}}{2}$
- C $\frac{\sqrt{2}}{2}$
- D 1

Understand It with Pulse | Flag a mistake

3 The area of a triangle with base 12 and height 9 is

- A 108
- B 54
- C 21
- D 42

Understand It with Pulse | Flag a mistake

4 A cylinder has radius 4 and height 9. Its volume, in terms of π, is

- **A** 36π
- **B** 72π
- **C** 324π
- **D** 144π

Understand It with Pulse | Flag a mistake

5 A sphere has radius 2. Its volume, in terms of π, is

- **A** $\frac{32\pi}{3}$
- **B** 16π
- **C** $\frac{16\pi}{3}$
- **D** 8π

Understand It with Pulse | Flag a mistake

6 **A rectangular prism has length 8, width 5, and height 3. Its volume is**

- A 120
- B 40
- C 16
- D 80

Understand It with Pulse | Flag a mistake

7 **A cone has radius 3 and height 7. Its volume, in terms of π, is**

- A 63π
- B 42π
- C 7π
- D 21π

Understand It with Pulse | Flag a mistake

8 **A triangle has sides 9, 40, and 41. It is**

A Obtuse

B Acute

C Right

D Equilateral

Understand It with Pulse | Flag a mistake

9 **The area of a trapezoid with bases 8 and 14 and height 5 is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **In a right triangle, an angle measures 30° and the hypotenuse is 20. The opposite side is**

- **A** 20
- **B** $10\sqrt{3}$
- **C** 5
- **D** 10

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. C
2. B
3. B
4. D
5. A
6. A
7. D
8. C
9. 55
10. D

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