TRIGONOMETRY AND MEASUREMENT - PRACTICE TEST | MISSISSIPPI 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** **In a triangle, angle A measures 30°, side a = 6, and angle B measures 45°. Side b, to one decimal place, is about**

- A 8.5
- B 12
- C 6
- D 4.2

Understand It with Pulse | Flag a mistake

2 **In a triangle, two sides measure 8 and 10 with included angle 90°. The third side, to one decimal place, is about**

- A 2
- B 12.8
- C 18
- D 6

Understand It with Pulse | Flag a mistake

3 **A triangle has two sides of lengths 6 and 8 with included angle 90°. Its area is**

- A 48
- B 14
- C 24
- D 12

Understand It with Pulse | Flag a mistake

4 **A rectangular pyramid has a base of 6 by 4 and a height of 9. Its volume is**

- A 216
- B 72
- C 144
- D 36

Understand It with Pulse | Flag a mistake

5 **A sphere has radius 2. Its volume, to one decimal place, is about**

- A 16.8
- B 50.3
- C 33.5
- D 100.5

Understand It with Pulse | Flag a mistake

**6** **A rectangular prism measures 2 by 3 by 6. Its surface area is**

- **A** 36
- **B** 72
- **C** 108
- **D** 18

Understand It with Pulse | Flag a mistake

**7** **A right triangle has legs 9 and 12. The hypotenuse is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

**8** **From a point 40 m from the base of a tower, the angle of elevation to the top is 30°. The height of the tower, to one decimal place, in metres, is about ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **A cone has radius 3 and height 10. Its volume, to one decimal place, is about ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **A triangle has base 12 and height 5. Its area is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

## ANSWER KEY

| | | | | | |
|---|---|---|---|---|---|
| **1.** | A | **5.** | C | **9.** | 94.2 |
| **2.** | B | **6.** | B | **10.** | 30 |
| **3.** | C | **7.** | 15 | | |
| **4.** | B | **8.** | 23.1 | | |

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