SOUTH DAKOTA GEOMETRY · UNIT 3

Trigonometry and Measurement — Practice Test

South Dakota Geometry • 10 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 **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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