ALASKA 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 right triangle, an angle measures 45° and the adjacent side is 6. The opposite side is**

- A 12
- B 8.5
- C 6
- D 3

Understand It with Pulse | Flag a mistake

2 **In a triangle, angle A measures 30°, side a = 8, and angle B measures 60°. Side b, to one decimal place, is about**

- A 13.9
- B 16
- C 6.9
- D 4

Understand It with Pulse | Flag a mistake

3 **In a triangle, two sides measure 4 and 5 with included angle 90°. The third side, to one decimal place, is about**

- A 9
- B 3
- C 20
- D 6.4

Understand It with Pulse | Flag a mistake

4 **A triangle has two sides of lengths 8 and 9 with included angle 90°. Its area is**

- A 72
- B 36
- C 18
- D 144

Understand It with Pulse | Flag a mistake

5 **A rectangular prism measures 4 by 4 by 4. Its surface area is**

- A 64
- B 192
- C 96
- D 48

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

7 **A cone has radius 6 and height 4. Its volume, to one decimal place, is about**

- A 452.4
- B 50.3
- C 150.8
- D 301.6

Understand It with Pulse | Flag a mistake

8 **A right triangle has hypotenuse 17 and one leg 15. The other leg is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **A cylinder has radius 5 and height 4. Its volume, to one decimal place, is about _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **From a point 20 m from the base of a tower, the angle of elevation to the top is 45°. The height of the tower, in metres, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	C	**5.**	C	**9.**	314.2
2.	A	**6.**	A	**10.**	20
3.	D	**7.**	C		
4.	B	**8.**	8		

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