

Unit 7: Angles, Triangles, and Prisms

CONCEPT

Name: _____ Date: _____

Solve each problem and write your short answer on the line. Show your work on scratch paper.

1. Two angles are complementary. One angle measures 35° . What is the measure of the other angle?

Answer: _____

3. Angles A and B are vertical angles. Angle A measures 64° . What is the measure of angle B?

Answer: _____

5. A right triangle has one angle of 90° and another angle of 25° . What is the measure of the third angle?

Answer: _____

7. What is the area of a triangle with base 8 cm and height 5 cm? Use $\text{area} = (1/2) \times \text{base} \times \text{height}$.

Answer: _____

9. A prism has a base area of 12 cm^2 and a height of 5 cm. What is its volume? Use $\text{volume} = \text{base area} \times \text{height}$.

Answer: _____

11. A cube has edges that are each 3 cm long. What is its volume? Use $\text{volume} = \text{edge} \times \text{edge} \times \text{edge}$.

Answer: _____

2. Two angles are supplementary. One angle measures 110° . What is the measure of the other angle?

Answer: _____

4. The three angles of a triangle measure 40° , 60° , and x° . What is the value of x ?

Answer: _____

6. Two angles form a straight line (a linear pair). One angle is 130° . What is the other angle?

Answer: _____

8. A rectangular prism has length 4 cm, width 3 cm, and height 2 cm. What is its volume? Use $\text{volume} = \text{length} \times \text{width} \times \text{height}$.

Answer: _____

10. What is the area of a triangle with base 10 m and height 6 m?

Answer: _____

12. One base of a triangular prism is a triangle with area 9 cm^2 . The prism's height is 4 cm. What is the volume of the prism?

Answer: _____