

Unit 7: Angles, Triangles, and Prisms

PRACTICE

Name: _____ Date: _____

Solve each problem and write your final answer on the line. Show your work where needed; give exact values and include units where they apply.

1. Two angles are complementary. One angle measures 34° . What is the measure of the other angle?

Answer: _____

3. Angles A and B are vertical angles. Angle A measures 73° . What is the measure of angle B?

Answer: _____

5. In a triangle, two of the angles measure 55° and 65° . What is the measure of the third angle?

Answer: _____

7. A triangle has a base of 12 cm and a height of 5 cm. What is its area, in square centimeters?

Answer: _____

9. A rectangular prism has length 4 cm, width 3 cm, and height 6 cm. What is its volume, in cubic centimeters?

Answer: _____

2. Two angles are supplementary. One angle measures 118° . What is the measure of the other angle?

Answer: _____

4. Three angles lie on a straight line and have no gaps or overlaps. Two of them measure 45° and 90° . What is the measure of the third angle?

Answer: _____

6. A right triangle has one angle measuring 90° and another measuring 37° . What is the measure of the third angle?

Answer: _____

8. Two angles are on a straight line. One measures $5x$ and the other measures $4x$, and together they form the straight line. What is the value of x ?

Answer: _____

10. A cube has an edge length of 5 cm. What is its total surface area, in square centimeters?

Answer: _____

11. A rectangular prism has length 8 m, width 2 m, and height 3 m. What is its total surface area, in square meters?

Answer: _____

12. A triangular prism has a triangular cross-section with area 15 cm^2 and a length (prism height) of 10 cm. What is its volume, in cubic centimeters?

Answer: _____