

Unit 7: Angles, Triangles, and Prisms

PRACTICE · SET 2

Name: _____ Date: _____

Solve each problem and write your answer in the blank. Show your work on a separate sheet.

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

Answer: _____

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

Answer: _____

5. The three angles of a triangle measure 40° , 75° , and x° . Find x .

Answer: _____

7. A triangle is equilateral. What is the measure of each of its angles, in degrees?

Answer: _____

9. A rectangular prism has length 5 cm, width 4 cm, and height 3 cm. What is its volume, in cm^3 ?

Answer: _____

11. A cube has edges of length 4 cm. What is its total surface area, in cm^2 ?

Answer: _____

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

Answer: _____

4. Three angles lie on a straight line and together form a straight angle. Two of them measure 45° and 90° . What is the measure of the third angle, in degrees?

Answer: _____

6. A right triangle has one angle of 90° and another of 31° . What is the measure of the third angle, in degrees?

Answer: _____

8. A triangular prism has a triangular base with area 12 cm^2 . The prism is 9 cm long. What is its volume, in cm^3 ?

Answer: _____

10. A rectangular prism has length 6 cm, width 2 cm, and height 5 cm. What is its total surface area, in cm^2 ?

Answer: _____

12. A prism has a base area of 15 cm^2 and a height of 8 cm. What is its volume, in cm^3 ?

Answer: _____