

# Unit 1: Areas

## CONCEPT

Name: \_\_\_\_\_

Date: \_\_\_\_\_

*Solve each problem and write your answer on the line. Show units where they apply.*

1. A rectangle has a base of 7 cm and a height of 4 cm. What is its area in square centimeters?

Answer: \_\_\_\_\_

2. A triangle has a base of 6 cm and a height of 5 cm. Using  $\text{Area} = \frac{1}{2} \times \text{base} \times \text{height}$ , what is its area in square centimeters?

Answer: \_\_\_\_\_

3. A parallelogram has a base of 9 cm and a height of 3 cm. What is its area in square centimeters?

Answer: \_\_\_\_\_

4. A square has a side length of 8 cm. What is its area in square centimeters?

Answer: \_\_\_\_\_

5. A triangle has a base of 10 cm and a height of 4 cm. What is its area in square centimeters?

Answer: \_\_\_\_\_

6. A cube has edges of length 2 cm. Each of its 6 faces is a square. What is the total surface area in square centimeters?

Answer: \_\_\_\_\_

7. A rectangular prism has faces with areas of 6, 6, 10, 10, 15, and 15 square centimeters. What is its total surface area in square centimeters?

Answer: \_\_\_\_\_

8. A parallelogram has an area of 40 square centimeters and a base of 8 cm. What is its height in centimeters?

Answer: \_\_\_\_\_

9. A triangle has an area of 24 square centimeters and a base of 6 cm. Using  $\text{Area} = \frac{1}{2} \times \text{base} \times \text{height}$ , what is its height in centimeters?

Answer: \_\_\_\_\_

10. A net for a cube is made of 6 identical squares. If each square has an area of 4 square centimeters, what is the surface area of the cube in square centimeters?

Answer: \_\_\_\_\_

11. A rectangle has an area of 36 square centimeters and a base of 4 cm. What is its height in centimeters?

Answer: \_\_\_\_\_

12. A rectangular prism is 3 cm long, 2 cm wide, and 4 cm tall. What is the total area of its two 3 cm by 2 cm faces (the top and bottom) in square centimeters?

Answer: \_\_\_\_\_