

Unit 1: Areas

PRACTICE · SET 2

Name: _____

Date: _____

Show all your work and give each answer as a single exact number or value (include units where appropriate).

1. A parallelogram has a base of 12 cm and a height of 7 cm. What is its area in square centimeters?

Answer: _____

3. A parallelogram has an area of 96 square meters and a base of 8 meters. What is its height in meters?

Answer: _____

5. A trapezoid has parallel sides of length 6 cm and 10 cm and a height of 4 cm. What is its area in square centimeters? (Use $\text{area} = (1/2) \times (b_1 + b_2) \times h$.)

Answer: _____

7. A cube has an edge length of 4 cm. What is its total surface area in square centimeters? (A cube has 6 square faces.)

Answer: _____

9. A square pyramid has a square base with side length 6 m and 4 triangular faces, each with a base of 6 m and a slant height of 5 m. What is the total surface area in square meters?

Answer: _____

2. A triangle has a base of 10 in and a height of 9 in. What is its area in square inches?

Answer: _____

4. A triangle has an area of 30 square feet and a base of 12 feet. What is its height in feet?

Answer: _____

6. A triangle has a base of 5 cm and a height of 3 cm. What is its area in square centimeters? Give your answer as a fraction or decimal.

Answer: _____

8. A rectangular prism measures 5 cm by 3 cm by 2 cm. What is its surface area in square centimeters?

Answer: _____

10. A parallelogram has a base of 9 cm and a corresponding height of 4.5 cm. What is its area in square centimeters?

Answer: _____

11. A composite figure is made of a rectangle 8 cm by 5 cm with a triangle of base 8 cm and height 3 cm attached on top. What is the total area in square centimeters?

Answer: _____

12. The net of a triangular prism has 2 triangular faces (each with base 6 cm and height 4 cm) and 3 rectangular faces measuring 10 cm by 6 cm, 10 cm by 5 cm, and 10 cm by 5 cm. What is the total surface area in square centimeters?

Answer: _____