

Unit 1: Areas

PRACTICE

Name: _____

Date: _____

Show all your work and write each final answer in the units given. Use pi where needed.

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

Answer: _____

2. A triangle has a base of 10 in and a height of 6 in. What is its area in square inches?

Answer: _____

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

Answer: _____

4. A triangle has an area of 45 square feet and a base of 9 ft. What is its corresponding height in feet?

Answer: _____

5. A trapezoid has parallel sides of length 5 cm and 11 cm and a height of 4 cm. What is its area in square centimeters? (Area = $(1/2)(b_1 + b_2) \times \text{height}$)

Answer: _____

6. A triangle has a base of 7 m and a height of 3 m. What is its area in square meters? Give your answer as a decimal.

Answer: _____

7. A cube has edges of length 5 cm. What is its total surface area in square centimeters?

Answer: _____

8. A rectangular prism measures 4 cm by 3 cm by 2 cm. What is its total surface area in square centimeters?

Answer: _____

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

Answer: _____

10. A triangular prism has two triangular bases, each with area 12 square cm, and three rectangular faces with areas 20, 20, and 16 square cm. What is its total surface area in square centimeters?

Answer: _____

11. A parallelogram has a base of 4.5 cm and a height of 8 cm. What is its area in square centimeters?

Answer: _____

12. A composite figure is made of a rectangle 10 m by 6 m with a triangle attached, where the triangle has a base of 6 m and a height of 4 m. What is the total area in square meters?

Answer: _____