

Geometry: Chapter 11/12.1 Study Guide

Rectangles, Squares, and Triangles

1. Find the area of a rectangle with base $6\sqrt{2}$ in and height $4\sqrt{2}$ in.



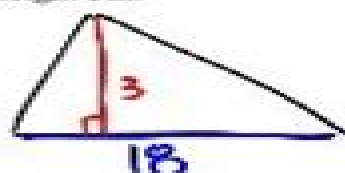
$$A = bh$$

$$A = (4\sqrt{2})(6\sqrt{2})$$

$$= 24 \cdot 2$$

$$A = 48 \text{ in}^2$$

3. Find the area of a triangle with base 18 in and height 3 in.

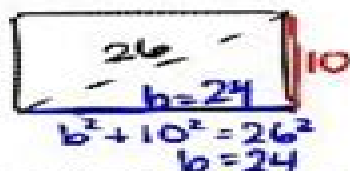


$$A = \frac{bh}{2}$$

$$= \frac{18 \cdot 3}{2}$$

$$A = 27 \text{ in}^2$$

5. Find the area of a rectangle with diagonal 26 m and side 10 m.

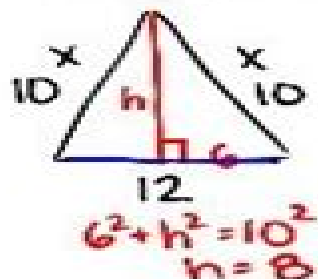


$$A = bh$$

$$= 24 \cdot 10$$

$$A = 240 \text{ m}^2$$

7. Find the area of an isosceles triangle with base 12 cm and perimeter 32 cm.



$$x + x + 12 = 32$$

$$x = 10$$

$$A = \frac{b \cdot h}{2}$$

$$= \frac{8 \cdot 12}{2}$$

$$A = 48 \text{ cm}^2$$

2. Find the area of a square with side $10\sqrt{3}$ cm.



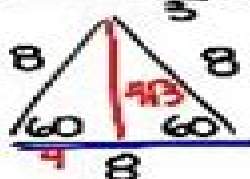
$$A = b \cdot h$$

$$= (10\sqrt{3})(10\sqrt{3})$$

$$= 100 \cdot 3$$

$$A = 300 \text{ cm}^2$$

4. Find the area of an equilateral triangle with perimeter $24\sqrt{3} = 8$

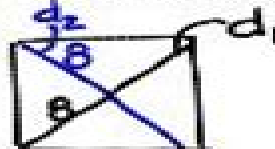


$$A = \frac{bh}{2}$$

$$= \frac{8 \cdot 4\sqrt{3}}{2}$$

$$A = 16\sqrt{3} \text{ ft}^2$$

6. Find the area of a square with diagonal 8 ft.

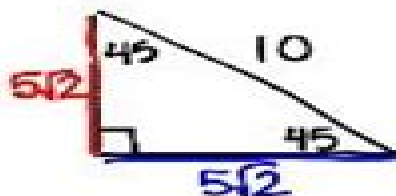


$$A = \frac{d_1 \cdot d_2}{2}$$

$$= \frac{8 \cdot 8}{2}$$

$$A = 32 \text{ ft}^2$$

8. Find the area of an isosceles right triangle with hypotenuse 10 ft.



$$A = \frac{bh}{2}$$

$$= \frac{5\sqrt{2} \cdot 5\sqrt{2}}{2}$$

$$= \frac{25 \cdot 2}{2}$$

$$A = 25 \text{ ft}^2$$

Geometry Chapter Study Guide

AW Chickering



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