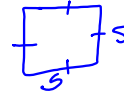


1.7 Introduction to
Perimeter, Area, and Circumference
P 51
Green Box

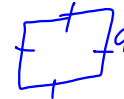
Square

$s = \text{side length}$



$$P = 4s$$

$$A = s^2$$



$$P = 4(9) = 36 \text{ units}$$

$$A = (9)^2 = 81 \text{ units}^2$$

Rectangle

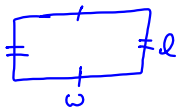
$$P = 2l + 2w$$

$$= 2(l + w)$$

$$A = lw$$

$$P = 2(7) + 2(4) = 22 \text{ in}$$

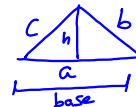
$$A = (7)(4) = 28 \text{ in}^2$$



Triangle

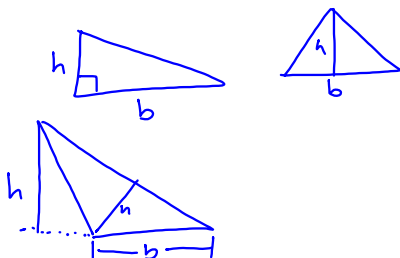
$$P = a + b + c$$

$$A = \frac{1}{2}bh = \frac{bh}{2}$$



$$P = 20 \text{ cm}$$

$$A = \frac{1}{2}(6)(4) = 12 \text{ cm}^2$$



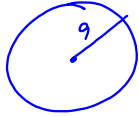
Circles

$$C = 2\pi r = \pi d$$

$$A = \pi r^2$$

$$\pi = 3.14 \text{ or } \frac{22}{7}$$





$$C = 2(3.14)(9) = 56.52 \text{ units}$$

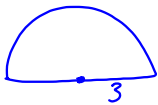
$$A = (3.14)(9)^2 = 254.346 \text{ u}^2$$

Area of square is 169 in^2
 what is the perimeter

$$A = \sqrt{s^2} = \sqrt{169}$$

$$s = 13$$

$$P = 4s = 4(13) = 52 \text{ in}$$



$$A = \frac{1}{2}(3.14)(3)^2$$

$$A = \frac{1}{2}(28.26) = 14.13 \text{ u}^2$$

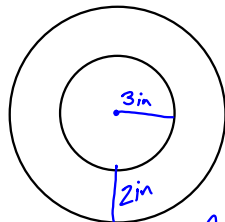
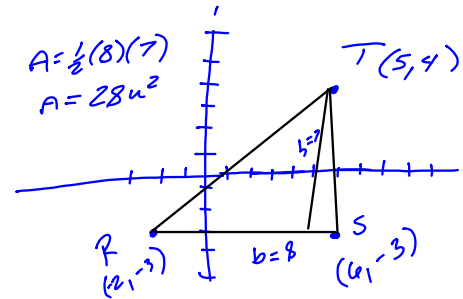
$$C = \frac{1}{2} \cdot 2(3.14)(3) + 6$$

$$= 9.42 + 6 = 15.42 \text{ u}$$

Shapes in a coordinate plane

$$A = \frac{1}{2}(8)(7)$$

$$A = 28 \text{ u}^2$$



Total hole

$$A_T = 3.14(5)^2$$

$$A_H = 3.14(3)^2$$

$$A = 16\pi = 50.24 \text{ in}^2$$

P 55-57

2-48 even

Remember labels