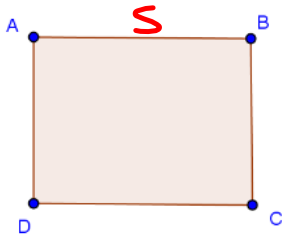


GEOMETRY1.8 Perimeter, Circumference, and Area

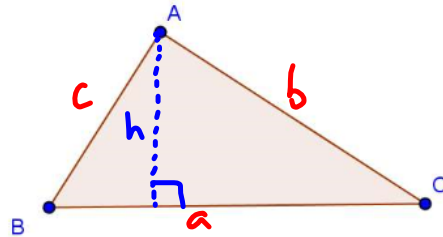
Square



Perimeter: $P = 4s$

Area: $A = s^2$

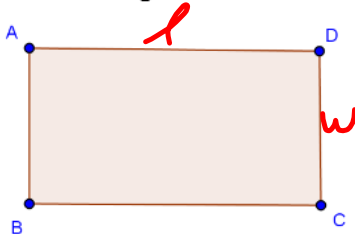
Triangle



Perimeter: $P = a + b + c$

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

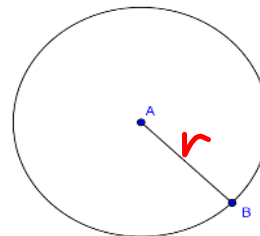
Rectangle



Perimeter: $P = 2l + 2w$

Area: $A = l \cdot w$

Circle

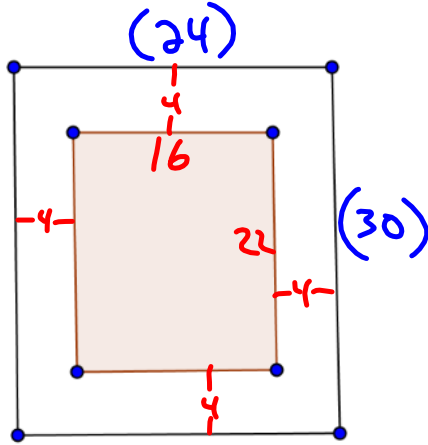


$d = 2r$

Circumference: $C = 2\pi r$ or $C = d\pi$

Area: $A = \pi r^2$

Ex You are designing a rectangular garden. You plan to place edging on the outside of the path. How much edging material will be needed?



$$P = 2l + 2w$$

$$P = 2(24) + 2(30)$$

$$P = 48 + 60$$

$$P = 108$$

Ex Find the area of the following. Leave your answers in terms of π .

(1)

$$A = \pi r^2$$

$$A = \pi (20)^2$$

$$A = 400\pi$$

(2)

$$A_T = 360$$

$$A_I = 50$$

$$A = 360 - 50$$

$$A = 310$$

(3) Plot the following points and find the area and perimeter of the figure.

A(2, 1) B(5, 1) C(5, 5)

$$AC = \sqrt{(5-2)^2 + (5-1)^2}$$

$$= \sqrt{9 + 16}$$

$$= \sqrt{25}$$

$$= 5$$

$$P = 12$$

$$A = \frac{1}{2}(3)(4)$$

$$A = 6$$

