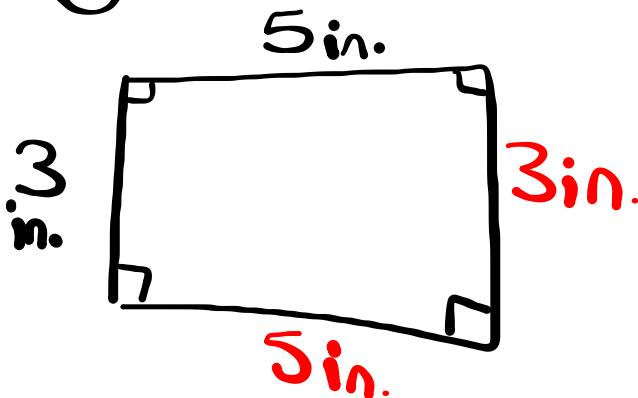


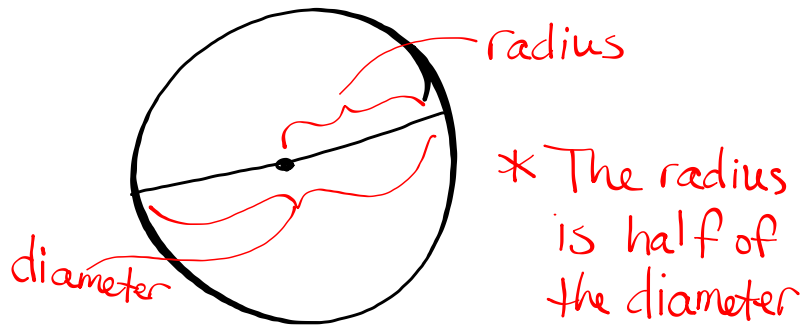
PERIMETER AND AREA

Perimeter is the distance around a figure.



$$P = 3 + 5 + 3 + 5 = 16 \text{ in.}$$

The distance around a circle is called the circumference.



$$C = 2\pi r$$

Find the circumference if

1) the radius is 4 ft.

$$C = 2\pi(4)$$

$$\boxed{C \approx 25.1 \text{ ft}}$$

2) the diameter is 15mm.

$$\text{radius} = 15 \div 2 = 7.5 \text{ mm}$$

$$C = 2\pi(7.5)$$

$$\boxed{C \approx 47.1 \text{ mm}}$$

3) The diameter is 12 cm.

$$\text{radius} = 12 \div 2 = 6 \text{ cm}$$

$$C = 2\pi(6)$$

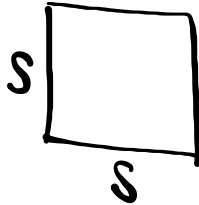
$$\boxed{C \approx 37.7 \text{ cm}}$$

Area is the number of square units needed to cover a surface.

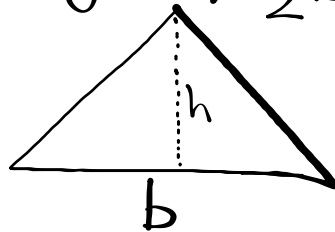
Rectangle: $A = lw$



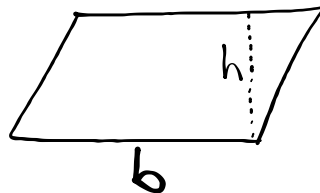
Square: $A = s^2$



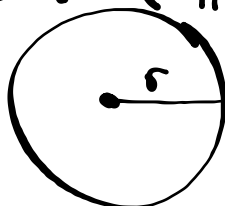
Triangle: $A = \frac{1}{2}bh$

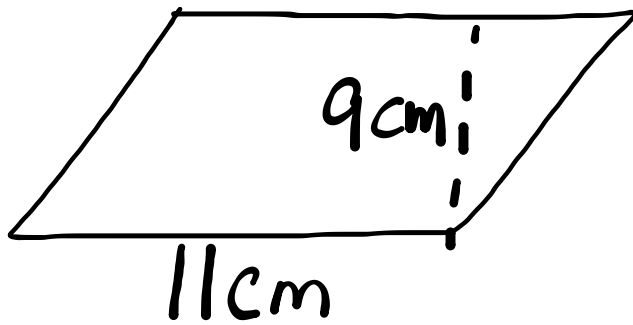


Parallelogram: $A = bh$



Circle: $A = \pi r^2$

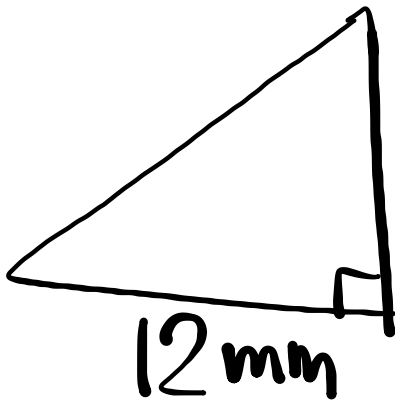




$$A = bh$$

$$A = (11)(9)$$

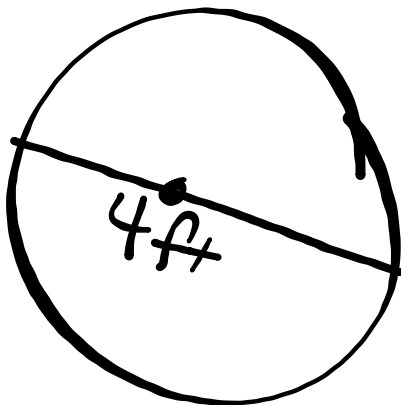
$$= 99 \text{ cm}^2$$



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

$$A = \frac{1}{2}(12)(5)$$

$$= 30 \text{ mm}^2$$



$$A = \pi r^2$$

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

$$A \approx 12.6 \text{ ft}^2$$

$$r = \frac{4}{2} = 2$$