

Area of Plane Figures

Area of a Rectangle:

$$A_{\text{rectangle}} = l \times w$$

Where l is length and w is width.



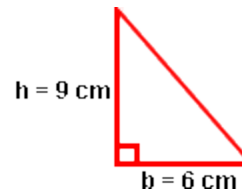
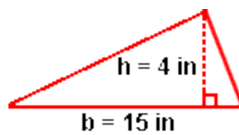
$w = 2 \text{ cm}$

$l = 3 \text{ cm}$

Area of a Triangle:

$$A_{\text{triangle}} = \frac{b \times h}{2}$$

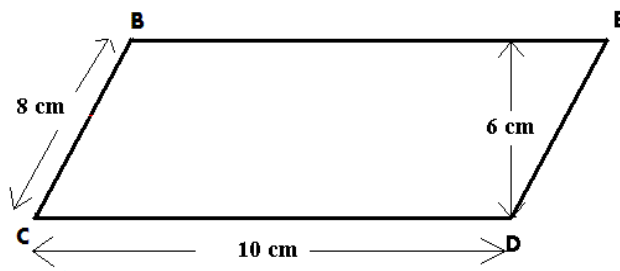
Where b is the base of the triangle and h is the height.



Area of a Parallelogram:

$$A_{\text{parallelogram}} = b \times h$$

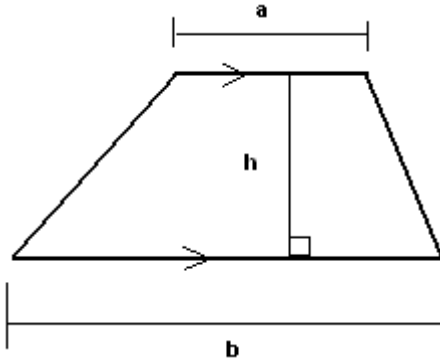
Where b is the base of the parallelogram and h is the height.



Area of a Trapezoid:

$$A_{\text{trapezoid}} = \frac{(a + b) \times h}{2}$$

Where a and b are the bases of the trapezoid and h is the height.

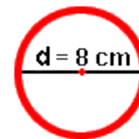
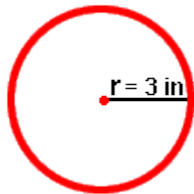


$a = 8$ cm, $b = 12$ cm, and $h = 10$ cm

Area of a Circle:

$$A = \pi r^2$$

Where r is the radius and π is approximately 3.14



Examples: Determine the area of each figure to 1 decimal place:

