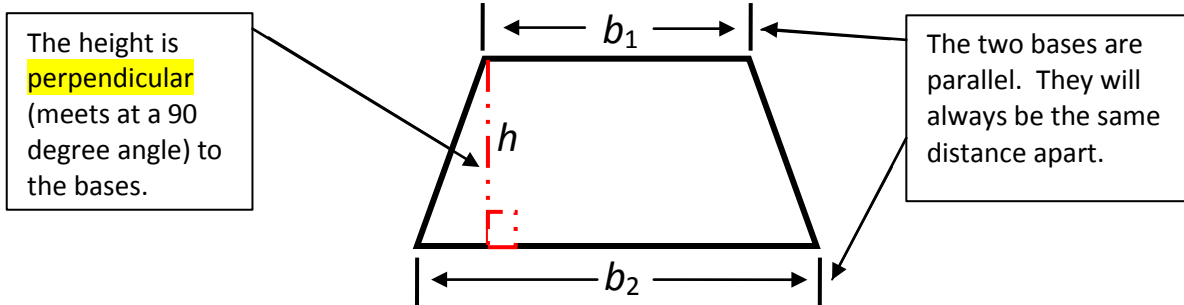


## 4.3 (Pg 168) Area of Trapezoids

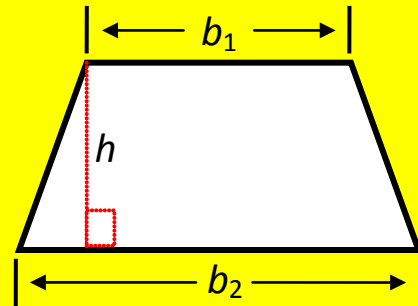
A **trapezoid** has two bases,  $b_1$  and  $b_2$ .  
The height of a trapezoid is the distance between the bases.



Area of a Trapezoid is...

$$A = \frac{1}{2} h(b_1 + b_2)$$

*(area is noted in square units)*



When finding the area of a trapezoid,  
it is important to follow the order of operations!

Example: Find the area of the trapezoid.

$$A = \frac{1}{2} h (b_1 + b_2)$$

$$A = \frac{1}{2} (7) (5 + 13)$$

$$A = \frac{1}{2} (7) (18)$$

$$A = 63$$

The area of the trapezoid is 63 square inches. ( $63 \text{ in}^2$ )

