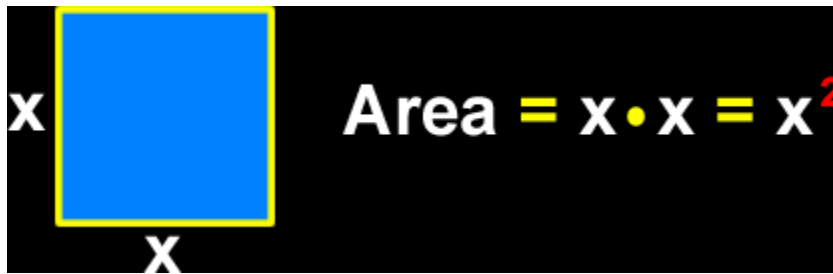


# Area

## The area of a square:

To find the area of a square, multiply the lengths of two sides together... Another way to say this is to say "square the length of a side!" Get it? Square!



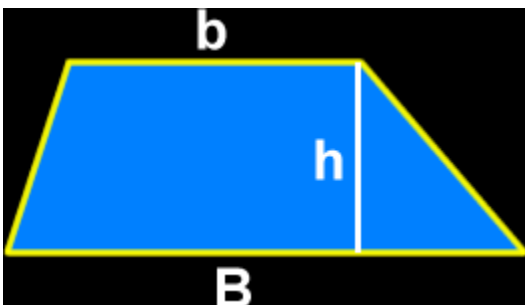
## The area of a rectangle:



To find the area of a rectangle, just multiply the length times the width:

$$\text{Area} = L \times w$$

## The area of a trapezoid:



To find the area of a trapezoid... The longer base (the bottom) is big B and the smaller base (the top) is little b...

$$\text{Area} = \frac{1}{2} h (B + b)$$

# Perimeter

The perimeter of a square:

To find the perimeter of a square, just add up all the lengths of the sides:









The perimeter of a rectangle:



To find the perimeter of a rectangle, just add up all the lengths of the sides:

$$\begin{aligned} \text{Perimeter} &= L + w + L + w \\ &= 2L + 2w \end{aligned}$$

# Quadrilaterals

Type	Properties
Parallelogram 	<ul style="list-style-type: none"><li>• Opposite sides are equal and parallel</li><li>• Opposite angles are equal</li></ul>
Rectangle 	<ul style="list-style-type: none"><li>• Opposite sides are equal and parallel</li><li>• All angles are right angles (<math>90^\circ</math>)</li></ul>
Square 	<ul style="list-style-type: none"><li>• Opposite sides are parallel</li><li>• All sides are equal</li><li>• All angles are right angles (<math>90^\circ</math>)</li></ul>
Rhombus 	<ul style="list-style-type: none"><li>• Opposite sides are parallel</li><li>• All sides are equal</li><li>• Opposite angles are equal</li><li>• Diagonals bisect each other at right angles (<math>90^\circ</math>)</li></ul>
Trapezoid 	<ul style="list-style-type: none"><li>• One pair of opposite sides is parallel</li></ul>
Kite 	<ul style="list-style-type: none"><li>• Two pairs of adjacent sides are equal</li><li>• One pair of opposite sides are equal</li><li>• One diagonal bisects the other</li><li>• Diagonals intersect at right angle (<math>90^\circ</math>)</li></ul>

# Polygons



Triangle



Square



Pentagon



Hexagon



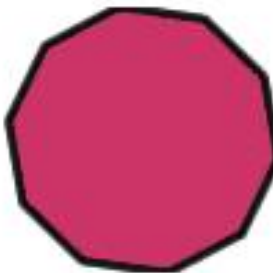
Septagon



Octagon



Nanogon



Decagon



Dodecagon

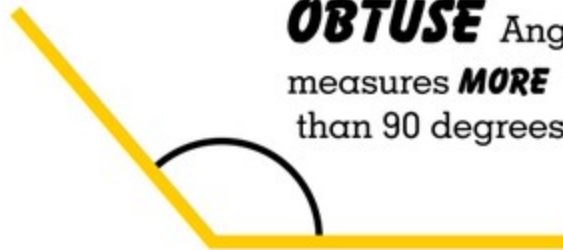


# ALL ABOUT ANGLES

**RIGHT** angle:  
measures **EXACTLY**  
90 degrees



**ACUTE** angle  
measures **LESS** than  
90 degrees



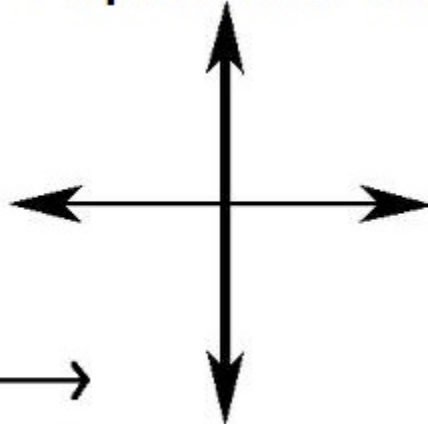
**OBTUSE** Angle:  
measures **MORE**  
than 90 degrees

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**Intersecting Lines**



**Perpendicular Lines**



**Parallel Lines**

