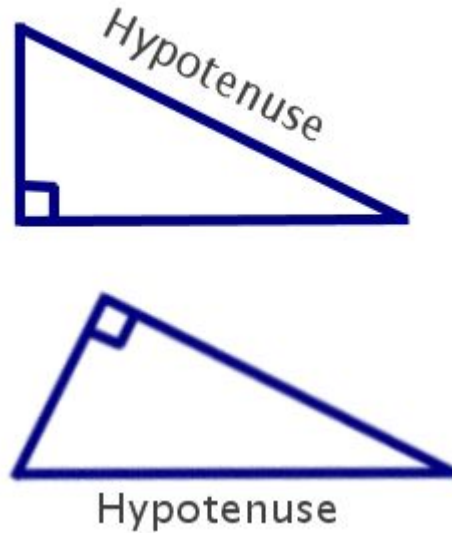
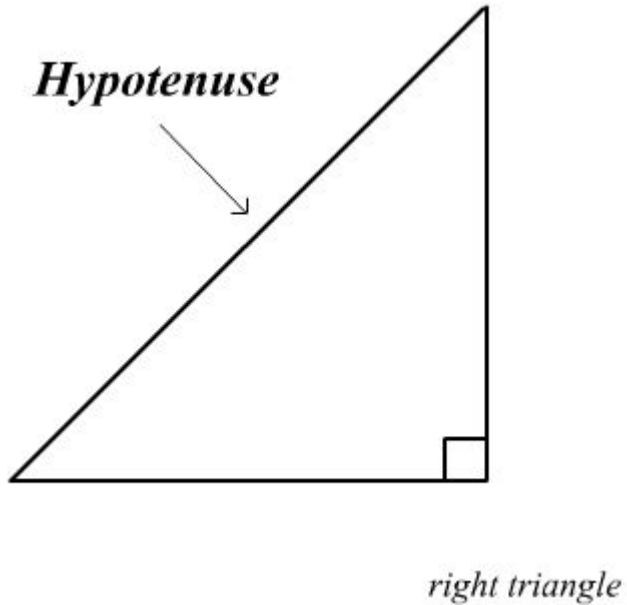
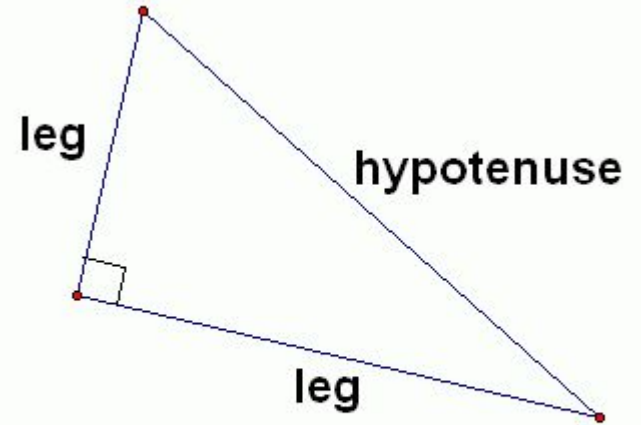
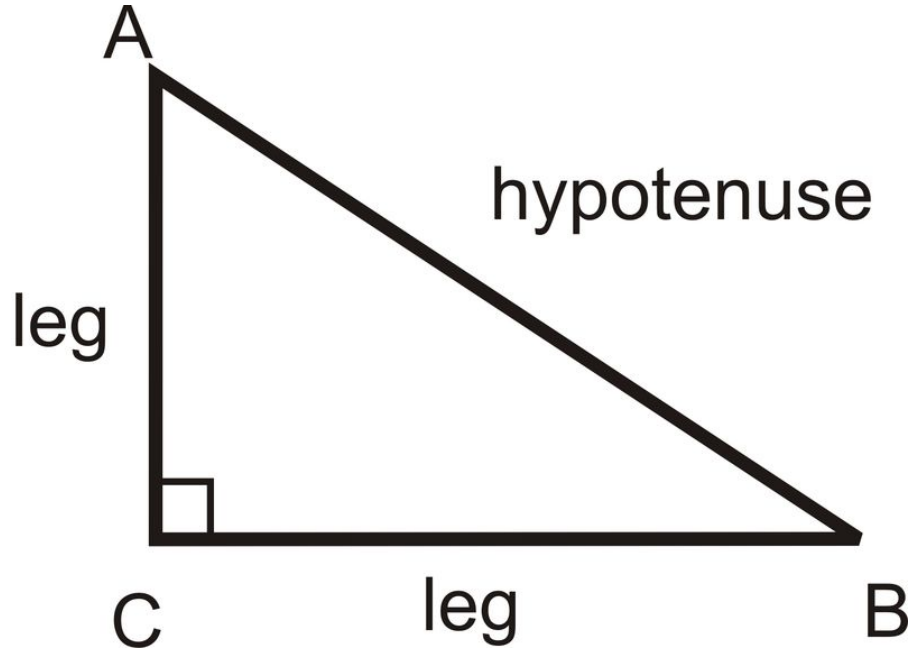


# Pythagorean Theorem Vocabulary

**Hypotenuse:** The side of the triangle opposite of the right angle; the longest side of the **right triangle**.



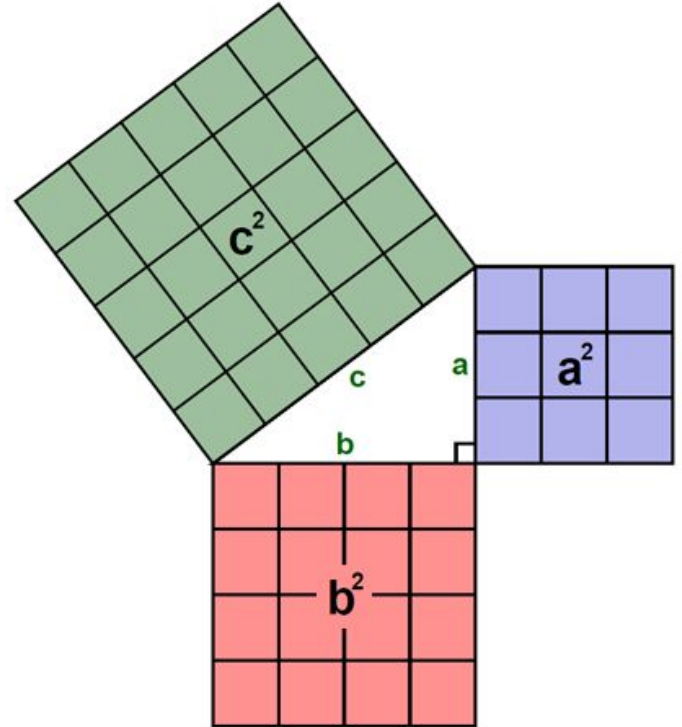
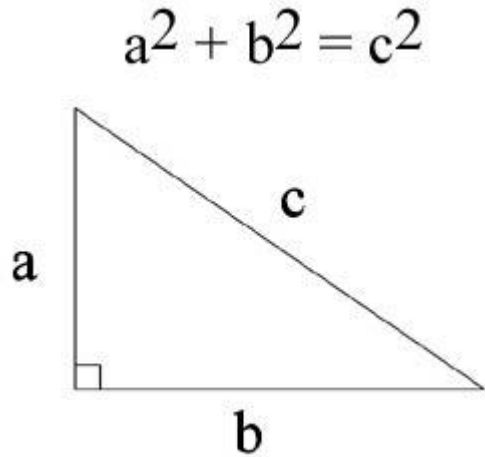
**Leg of a Triangle:** Two shorter sides of a right triangle; two sides **adjacent** to the right angle.



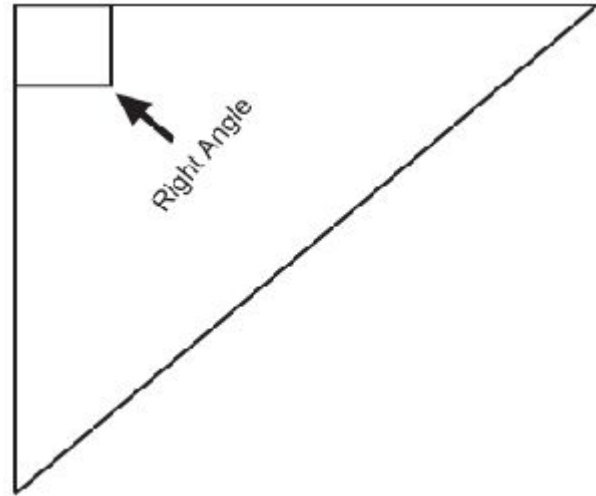
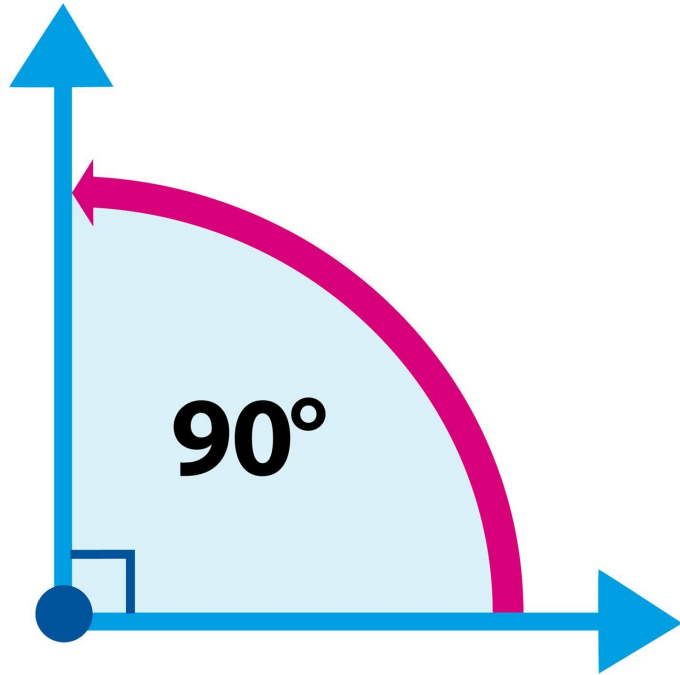
**a RIGHT TRIANGLE**

Pythagorean Theorem:

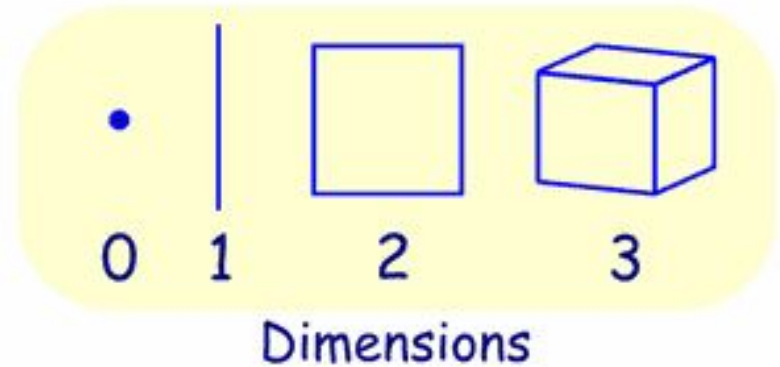
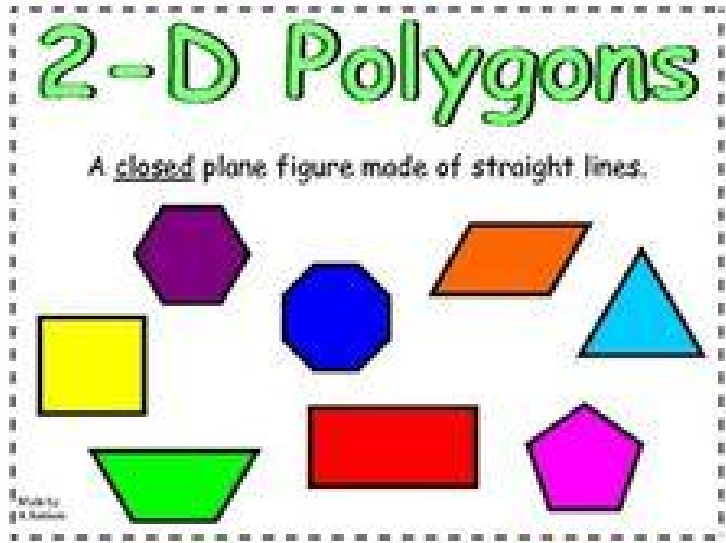
$$a^2 + b^2 = c^2$$



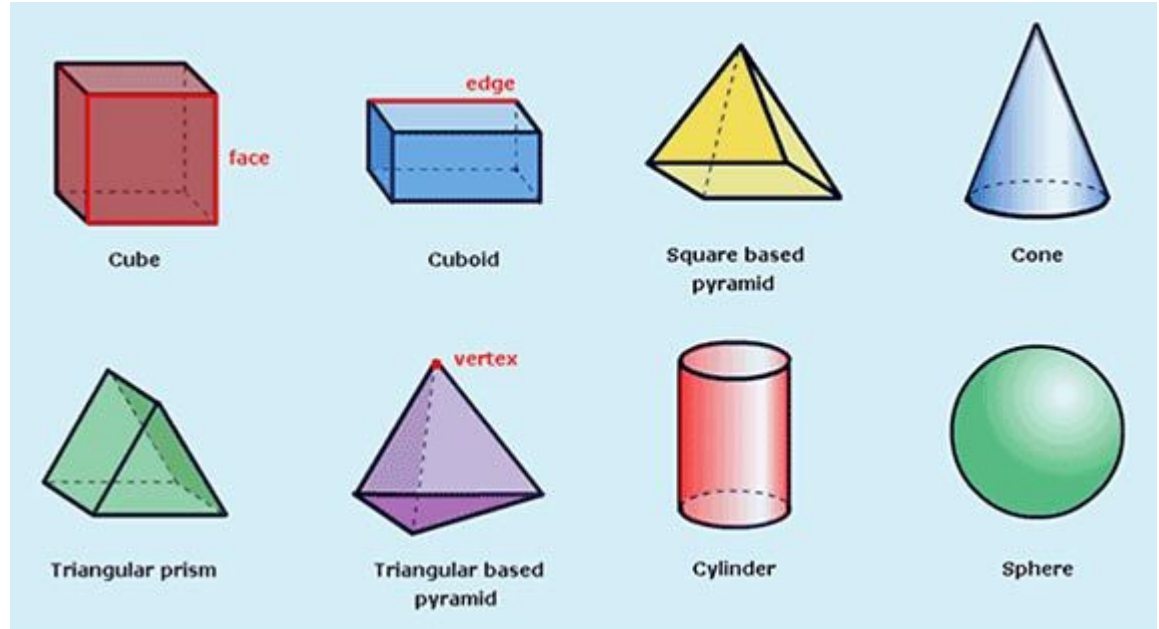
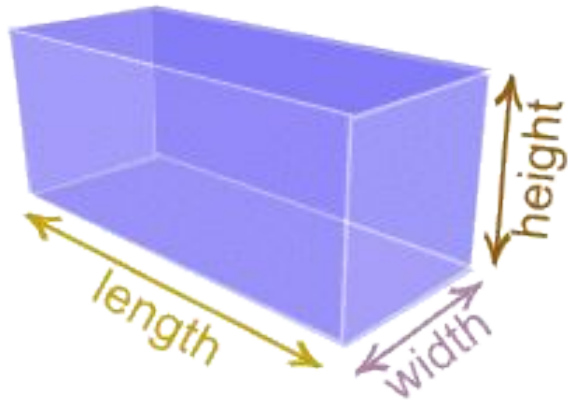
**Right Angle:** an angle measuring  $90^\circ$ ; intersection of two perpendicular lines



**Two Dimensional (2-D):** A shape that has only two dimensions such as width and height and no thickness.



# Three Dimensional (3-D): An object with height, width, and depth (objects in the real world)



**Converse:** If the square of one side of the triangle is equal to the sum of the squares of the other two sides, then the triangle is a right triangle.

