



# Math Study Strategies

## Basic Geometry Concepts (Cont.)

**Triangle** is a polygon with three sides.

A triangle with equal sides is called **equilateral**.

A triangle with two equal sides is **isosceles**.

A triangle with sides having different lengths are called **scalene**.

The **sum of the angles in a triangle is 180 degrees**.

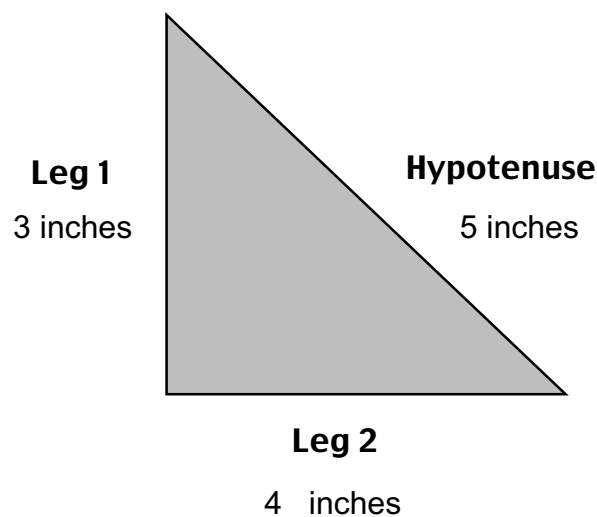
In a right triangle the side opposite the right angle is called **hypotenuse**. The other two sides are the **legs**.

If two or more triangles have the same size and shape, they are called **congruent**.

If triangles have the same shape, they are called **similar**.

The **Pythagorean Theorem** states that:

*The sum of the squares of the legs in a right triangle (leg 1 squared + leg 2 squared) is equal to the square of the hypotenuse (hypotenuse squared).*



$$3 \text{ squared } (9) + 4 \text{ squared } (16) = 5 \text{ squared } (25)$$
$$\text{hypotenuse} = \text{square root of } 25 = 5$$