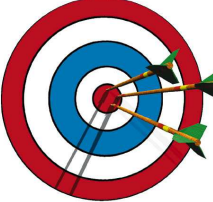# Pythagorean Theorem

Today's Learning Targets:

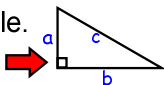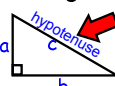1.11 I can apply the Pythagorean Theorem to find an unknown side of a right triangle.

A **Right Triangle** is a triangle in which one of it's interior angles is a right angle.

The **Hypotenuse** is the longest side of a right triangle, it is opposite the right angle.

The two shorter sides are the **legs**.

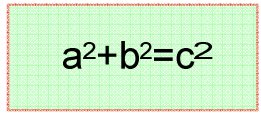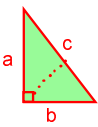The Pythagorean Theorem describes the unique relationship among the sides of a right triangle.

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

Unit 1-11

4   c

3

You Try!

Find the lengths of the hypotenuses.

10   10

c

c   12

9
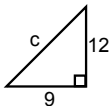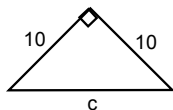
Find the hypotenuse with the given leg lengths...

$a = 9, b = 3, c = ?$

$a = 6, b = 8, c = ?$