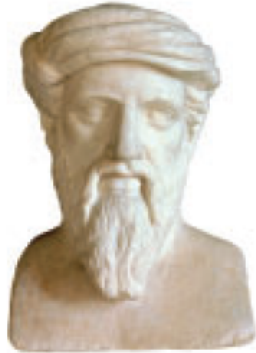


# 1.6

## The Pythagorean Theorem

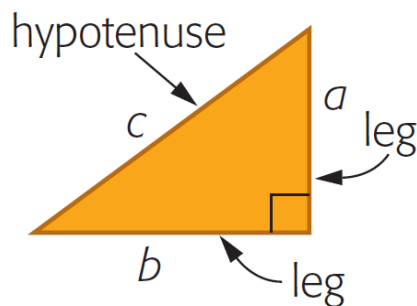
**GOAL**

Model, explain, and apply the Pythagorean theorem.



Pythagoras was a mathematician who lived 2500 years ago.

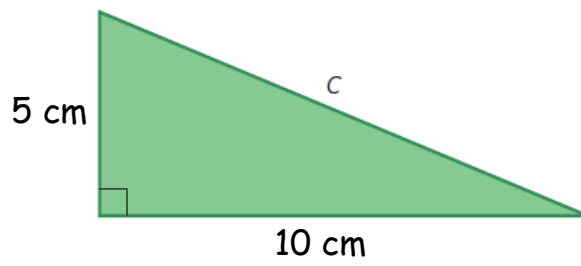
Pythagorean Theorem:  $a^2 + b^2 = c^2$



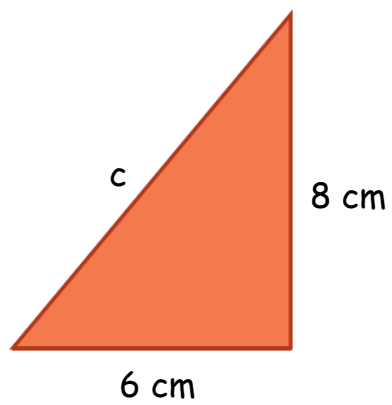
Right Triangle: The two shortest sides are called the legs, the longest side is called the hypotenuse. The legs meet at a 90 degree angle.

- Pythagorean Theorem only works with right angle triangles.

Ex) Find the length of  $c$ .



Ex) Find the length of  $c$ .



Ex) Find the length of  $a$ .

