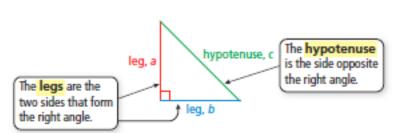
Name: _____ Mod: ____

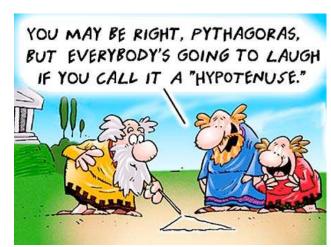
Date: _____

In a right triangle, the sides that form the right angle are called _____.

The side opposite the right angle (which is always the _____ side) is called the

_____•





The Pythagorean Theorem:

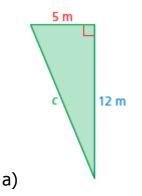
For any right triangle, the sum of the squares of the lengths of the legs equals the square of the length of the hypotenuse.

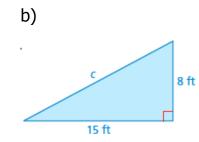
In algebra language, this means _____

*____ is always the _____

Example 1: Finding the Length of a Hypotenuse

Find the length of the hypotenuse of the triangle.

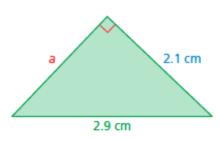




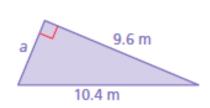
Example 2: Finding the Length of a Leg

Find the missing length of the triangle.

a)



b)



The Wizard of Oz and Pythagoras

In the movie "The Wizard of Oz," the Scarecrow desperately wants a brain. In the very end, many people think he says the Pythagorean Theorem to prove his intelligence, but he actually says something different that sounds similar.

- 1. Do your best to write down what the Scarecrow says. (He talks fast!)
- 2. What was the difference about what he said compared to the Pythagorean Theorem?

3. Do you think the writers did this on purpose? Why or why not?