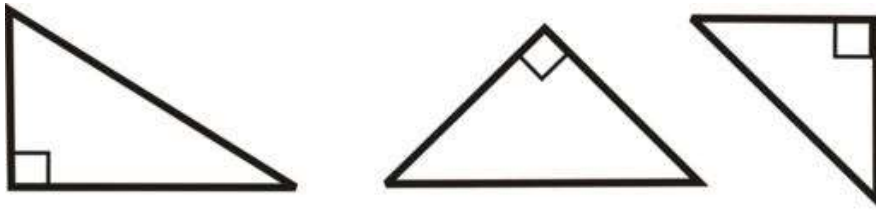


The Pythagorean Theorem – Lesson 2

1. Labelling Triangles

Please label the hypotenuse and the legs of the following right triangles with a , b , and c .



2. The Pythagorean Theorem

In a right triangle, the _____ of the areas of the squares attached to the _____ equals the area of the square attached to the _____.

Why is this useful?

The _____ is one of math's oldest and most famous formulas. This formula allows us to determine any missing side length of a _____ triangle provided we know _____ side lengths.

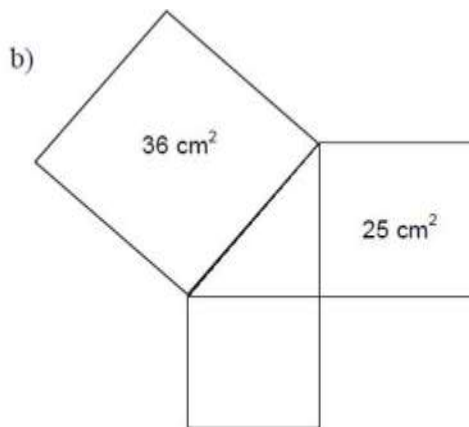
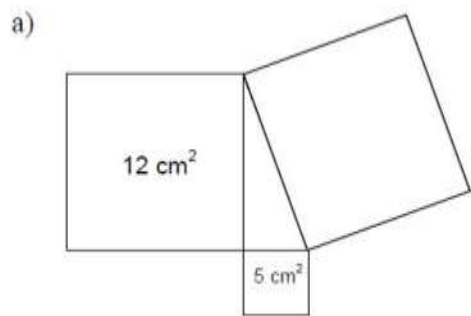
The formula is _____. It can be rearranged in two ways:

1. _____

2. _____



For the unknown squares, can you find the area and side length of each square?



3. Examples: Using the Pythagorean Theorem to Find Missing Lengths

Find the unknown length. Represent your answer as a square root and a decimal to one decimal place.



4. Practice: Find the Missing Side

