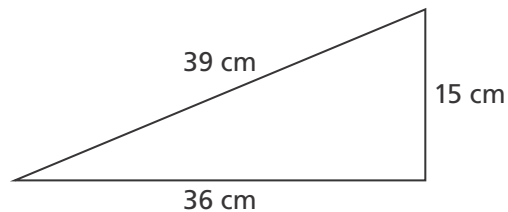


Name _____

Read the problem below. Then answer the questions to understand the problem.

Is the triangle in the diagram a right triangle?



1. Explain why you cannot answer the question simply by looking at the diagram.

2. What do the three measurements in the diagram represent?

3. The Converse of the Pythagorean Theorem states that if $a^2 + b^2 = c^2$, then the triangle is a right triangle. In the diagram, write the letter c next to the side length that should be substituted for c . Explain.

4. Explain how to substitute the remaining two side lengths into the equation $a^2 + b^2 = c^2$.

5. Once you have substituted all given values into the equation, will you need to solve for a variable? Explain.