

Name \_\_\_\_\_

Use the list below to complete the sentences. Use each term once.

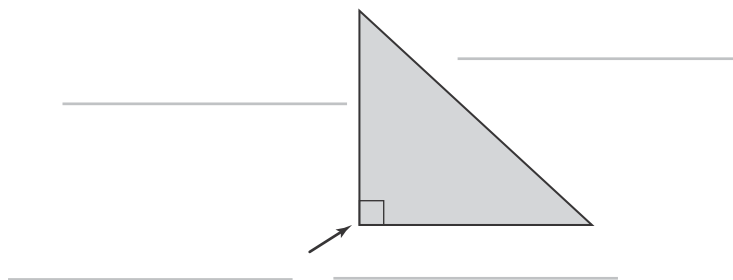
Converse of the Pythagorean Theorem  
hypotenuse

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

leg

1. A shorter side of a right triangle is a \_\_\_\_\_.
2. The mathematical equation used in the Pythagorean Theorem and its converse is \_\_\_\_\_.
3. The \_\_\_\_\_ states that if a triangle is a right triangle, then the sum of the squares of the lengths of the two shorter sides is equal to the square of the length of the longest side.
4. The \_\_\_\_\_ states that if the sum of the squares of the lengths of the two shorter sides of a triangle is equal to the square of the length of the longest side, then the triangle is a right triangle.
5. The longest side of a right triangle is the \_\_\_\_\_.

Label the parts of the triangle with their names. Then complete the equation using the appropriate terms.



\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_