

Exploring Relationships in Right Triangles

Each person:

1. Draw a right triangle on square dot paper. Label sides a , b , and c , where c is the side opposite the right angle, called the *hypotenuse*.
2. Measure the length of the hypotenuse. Record the measures of the three side lengths in the table below.
3. Draw a square on each side of the triangle. Determine the area of each square in square centimetres. Record the areas in the table.

As a group:

4. Complete the table.

Group member	Length, side a	Length, side b	Length, side c	Area, a^2	Area, b^2	Area, c^2

5. What patterns or relationships do you notice?