Exploring Relationships   
 in Right Triangles

**Measurement**

**Unit 1 Line Master 1**

**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?