

## Using Squares to Analyze Patterns in Right Triangles

- Your team will be assigned one of the triangles listed below.
- Draw the right triangle on grid paper.
- Draw the squares on both legs and the hypotenuse.  
Enter your information on the table.
- Be prepared to share your results with the other teams.
- Once your data table is completed, write a **conjecture** (best guess) about relationship of the areas of the three squares.

Length of Leg 1 (units)	Length of Leg 2 (units)	Area of Square on Leg 1 (Sq. Units)	Area of Square on Leg 2 (Sq. Units)	Area of Square on Hypotenuse (Sq. Units)
1	1	1	1	2
1	2			
2	2			
1	3			
2	3			
3	3			
3	4			

My conjecture:

The area of \_\_\_\_\_ and the area of \_\_\_\_\_ are

related to the area of \_\_\_\_\_

because \_\_\_\_\_.