PYTHAGOREAN INVESTIGATION _____

(name)

Complete the table.   Answer the questions.

_____

1 . Assemble sets of three squares. The corners should touch with no gaps or overlap.

2 . What shape is formed inside the squares?

3 . Calculate the area of all three squares.

4 . Record this information in your chart.

SET	SMALL AREA	SMALL AREA	LARGE AREA	TRIANGLE
1	4 x 4 = 16	6 x 6 = 36	8 x 8 = 64	
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				

5 . Which sets of squares will form acute triangles?

6 . Which sets of squares will form obtuse triangles?

7 . Which sets of squares will form right triangles?