

7-3B Laboratory Manual

Name _____

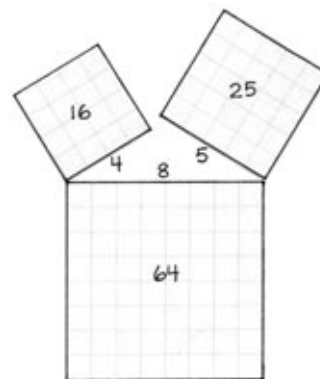
Date _____

MATERIALS

Graph paper, Scissors

- Cut out 13 squares from graph paper, with these dimensions.

3×3	6×6	9×9	12×12
4×4	7×7	10×10	13×13
5×5	8×8	11×11	14×14
		15×15	



- Using three squares at a time, arrange them to form a triangle as shown.
- Determine the type of triangle formed in each case. Keep track of your results in the table below. Form at least ten triangles using the thirteen squares.

Length of the side of each square			Area of each square			Type of Triangle
a	b	c	a^2	b^2	c^2	
4	5	8	16	25	64	Obtuse

- Focus on cases where a *right* triangle was formed. Write a conjecture about the areas of the squares that form right triangles. **Problem-Solving Tip:** Look for a pattern.

