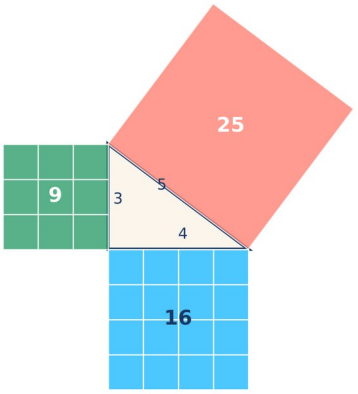
Discover It

Partners. Use grid paper. MTH1W, Geometry and Measurement, Lesson 6

Name: _____ Date: _____



Draw each triangle on grid paper with the two shorter sides along grid lines (for the last triangle, draw side a along a grid line and measure c with a ruler). Draw a square on each side and find its area (count squares, or use side × side). Then compare.

Triangle (short sides)	Right angle?	Area of square on a	Area of square on b	Area of square on c	$a^2 + b^2 = c^2$?
3 and 4	yes				
6 and 8	yes				
5 and 12	yes				
3 and 4, angle wider than 90°	no				

Write the relationship in your own words.

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Find the Side

Independent. Round to one decimal place where needed. MTH1W, Geometry and Measurement, Lesson 6

Name: _____ Date: _____

Triangle	Work	Answer
1. Legs 6 and 8		
2. Legs 5 and 12		
3. Legs 7 and 9		
4. Hypotenuse 15, leg 9		
5. Hypotenuse 10, leg 4		
6. Sides 8, 15, 17: right triangle?		
7. Sides 6, 7, 9: right triangle?		

8. A carpenter checks a deck corner. She measures 60 cm along one board and 80 cm along the other. The diagonal between the marks is 99 cm. Is the corner square? Explain.

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