Name:	Math, Period
Mr. Rogove	Date:

LEARNING OBJECTIVE: We will apply the Pythagorean Theorem and its converse to solve problems. (G8M7L10)

ACTIVATING PRIOR KNOWLEDGE:

We know how to apply the Pythagorean Theorem to find the lengths of sides of right triangles.



CONCEPT DEVELOPMENT: The Converse of the Pythagorean Theorem

If the lengths of three sides of a triangle, a, b and c satisfy $a^2 + b^2 = c^2$, then the triangle is a right triangle, and furthermore, the side of length c is opposite the right angle (it's the hypotenuse).



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GUIDED PRACTICE:	
Steps for Identifying a Right Triangle	

1. Identify the lengths of the sides of a triangle.

2. Determine if the sum of the squares of the lengths of the 2 shorter sides is equal to the square of the longest sides.

2a. If yes to above, then you triangle is a right triangle, and the longest side is the hypotenuse, located opposite the right angle.

2b. If no to above, then you do not have a right triangle.



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Mr. Rogove

Math _____, Period _____

Date: _____

INDEPENDENT PRACTICE:

Problem Set for Independent Practice?? Students DO have to approximate to tenths place!!

CLOSURE:

Give exit ticket for lesson 16 module 7 grade 8

NOTES:

Lesson maps to Lesson 16, Grade 8, Module 7