Name Date			
Geometry – Pythagorean Theorem and Special Right Triangles mini-u	ınit:	Pre-	Post-
Prerequisite skills: a. I can calculate the sum of the angles in a polygon.			
b. I can simplify exponential expressions.			
c. I can solve equations for a variable by using inverse operations.			
d. I can identify equilateral and isosceles triangles.			
e. I can identify the components of a right triangle.			
f. I can calculate the area of a square.			
Learning Targets: 1. I can interpret the Pythagorean Theorem.			
2. I can use the Pythagorean Theorem to solve for a hypotenuse.			
3. I can use the Pythagorean Theorem to solve for a leg.			
4. I can use the Pythagorean Theorem to prove the ratio of isosceles r	ight triangles.		
5. I can understand the proof of the ratios in a 30-60-90 triangle.			
6. I can use special right triangle relationships to solve for missing sid	de lengths.		

Performance Checks:

- 1. Explain the Pythagorean Theorem using the terms leg, hypotenuse, squared, right triangle.
- 2. In a right triangle with both leg lengths given, calculate the length of the missing hypotenuse.
- 3. In a right triangle with a leg and the hypotenuse lengths given, calculate the length of the missing leg.
- 4. Write an informal proof of the ratio of the sides of an isosceles right triangle by using the Pythagorean Theorem.
- 5. Draw a 30-60-90 triangle and write the ratio of the side lengths.
- 6. Given one length of a side in a special right triangle (either 45-45-90 or 30-60-90), use the ratios to determine the lengths of the missing sides.