

Grade 7/8 Math **Pythagorean Theorem Questions 2**

Name: _____ Class: _____ Date: _____

Use a ruler to draw (as accurately as possible), each of the following triangles.

1) Draw a 6 cm vertical line and label it XY. From one of the ends, draw a horizontal 8 cm line YZ. Join the two open ends. What is the measure that you got? What should it be? How do you know this?

2) If you have a line that is vertical and 6 cm (draw to the left of the space below) and a horizontal line extending at a right angle 4.5 cm to the right, what is the length of the hypotenuse (to the nearest mm)

3) Draw any right triangle that has legs that are whole numbers (in cm). Connect the ends to create a right triangle. Measure the hypotenuse. Calculate what the hypotenuse should be. Is it correct? Explain.

4) Create a right isosceles triangle with legs that are 5cm exactly. Draw and measure your hypotenuse. How close did you get to 7.1cm? Why is it difficult to get 7.07107 cm exactly?