

Name: \_\_\_\_\_

**Assignment – Measuring Your TV**

1) Find out what size TV you have at home. You may have a 42-inch TV, a 55-inch TV, whatever. Ask your parents, find the box, etc., but don't measure it yet. Just go by what the TV was advertised to be. (If you have no way of finding the measurement of a TV, you may use a computer if you know the measurement of that.) If you have multiple TV's, pick the biggest one.

Record this number here: \_\_\_\_\_.

2) Measure the length and width of your TV in inches (just the screen). DO NOT ROUND – be as exact as you can:

Length: \_\_\_\_\_

Width: \_\_\_\_\_

3) Draw a picture of the TV and label the measurements from JUST #2. Draw in a diagonal as a dotted line. Label it "x".

4) Use the Pythagorean Theorem to find the length of the diagonal. Show all your work in the space below. Remember, TV's are actually advertised by the length of the diagonal, so your answer for this problem *should* match your measurement from #1.

5) How close was your calculation of the diagonal length from #4 to the advertised measurement from #1? Why do you think this happened?

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