Name	 <b>Period</b>

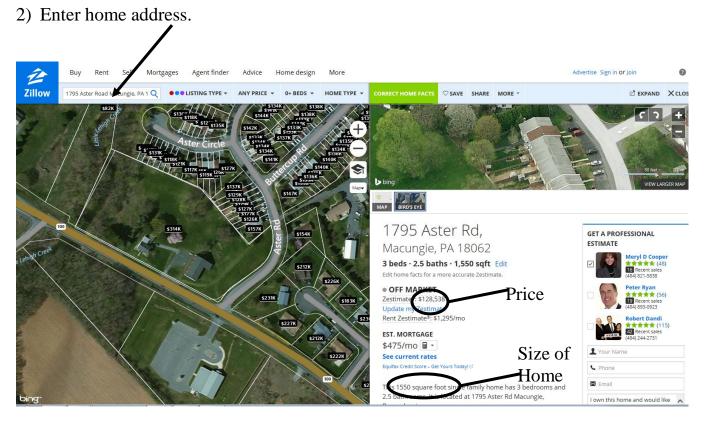
## **Project – Using Zillow to Find Line of Best Fit/Write Equation of the Line**

Directions: Scatter plots are used to represent data. Often times, this data represents a positive or negative correlation. When there is strong positive or strong negative correlation, an equation of a straight line can be used for predicting values that may not be displayed. Such a straight line is called the line of best fit.

Students will use Zillow to understand the positive correlation between house size (square footage) and house price. Students will enter their home address on Zillow. Using the data displayed, students will create a scatter plot showing the square footage and price for 25-30 nearby homes. Students will then derive the equation of the line so predictions can be made.

## Steps to complete project:

1) Go to www.zillow.com.



3) Collect data on your home and 24-29 other homes in your neighborhood. To see square footage of a particular home, scroll over a home displayed on Zillow and double click on the price displayed.

4) The data collected should be displayed in a neat, organized table. Don't forget to label your x and y.

Home Address	Square Footage (x)	Price (y)
	+	

5) Use your completed table to create a scatter plot on the calculator. Carefully consider the values you will use on the x and y-axes.

6)	Sketch a scatterplot.		
7)	Write an equation that best represents your data displayed.		
8)	Predict a data point that is not on the graph. For example, use the line of best fit to predict how much your house would cost if your parents made a 500 square foot addition to the house.		
a)	Predict the cost of a home with the following square footage: 1,000 sq ft 3,000 sq ft		
c)	10,000 sq ft		
10	<ul><li>Make a poster showing all of the information including</li><li>Name of your neighborhood</li><li>Table</li></ul>		
	<ul><li>3. Scatter plot with line of best fit drawn</li><li>4. The equation of the line of best fit, with all steps displayed</li><li>5. Predictions</li></ul>		