N	VEY	
Name		

Instructions: You must show all work to receive full credit for the problems below. You may use Excel where appropriate. Any datasets needed will be posted on Canvas with the quiz file, and you should submit such work along with your quiz. Round answers to two decimal places unless other instructions are given in the problem.

 In the file 154quiz4data.xlsx, on Sheet 1, use the data on region to create a summary table of counts, and from that, make a pie chart of the data. Which region is most represented? Which one is least represented?

> West is input represented Midwest is the least

graph in Excel

2. Sort the data on Sheet 2, then use the sorted data to find the 70th percentile of the data set. What is that value?

400 x 0.70 = 280 + 1 (header)

is \$110.15

3. Using the data on Sheet 3, make a line graph with the years on the horizontal axis and the percent housing values on the vertical axis. Your line graph should display the data for both Maryland and Virginia. Be sure to include proper axis labels and a title. Write a sentence or two summarizing the graph.

Virginia is Righer than Manyland until 1997, but they exchange the leads several time's after that until 2013

graph in Excel

4. In the file on Sheet 4 is data on buy category and time of day. Create a pivot table, and then create two different bar graphs: a) a cluster column graph, b) a stacked column graph of the table. Be sure to label it appropriately with a descriptive title. Write a one or two sentence summary of what each graph means. Explain how the graphs tell a slightly different story than the other one.

graphs in Excel

The cluster column graph allows you to compare different categories

We each other at different times of day in how does high / las / midium

compare at each time. The stacked graph is easier to see to labs at each

time & day (counts) or compare percentage (surrent stacked)