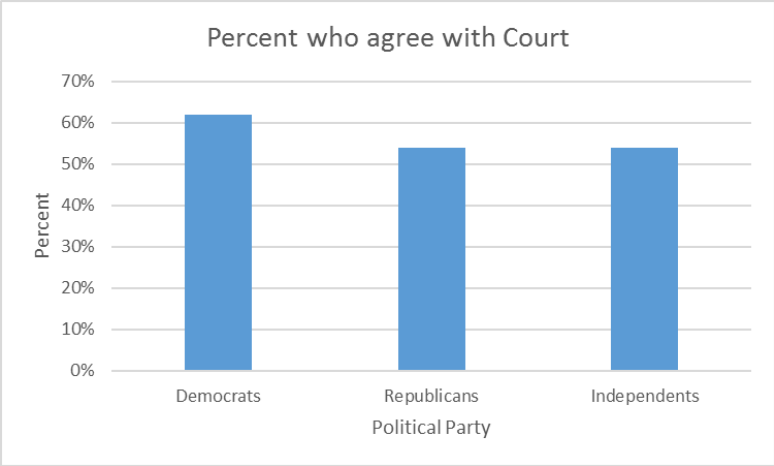
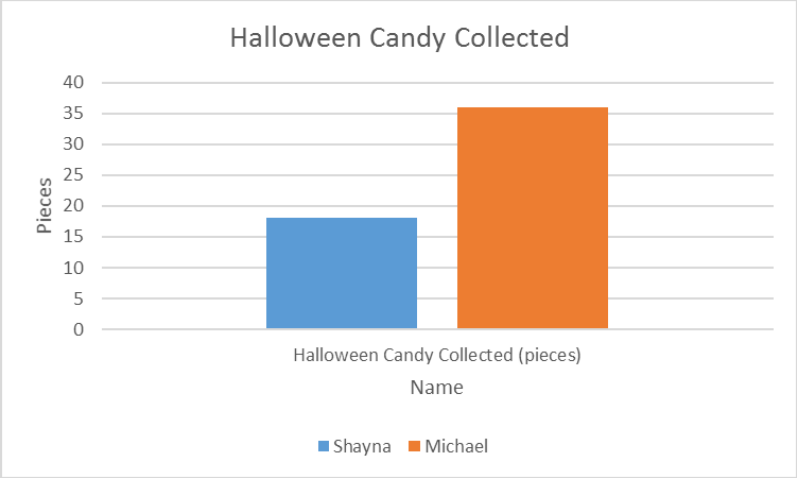
223 Homework #3 Key

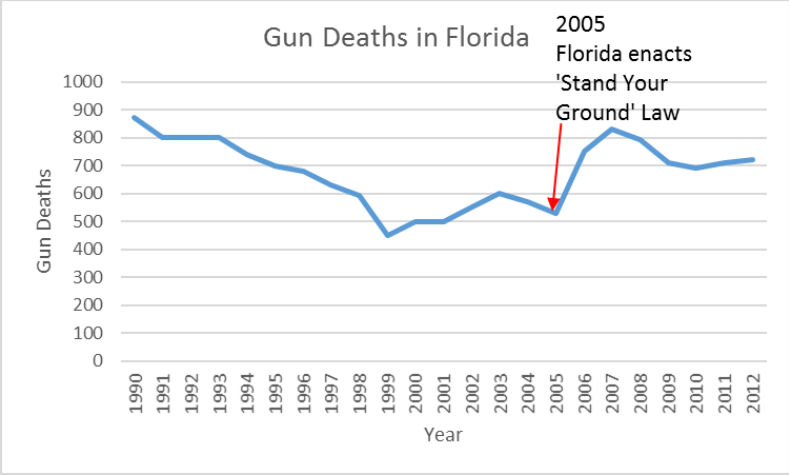
1.



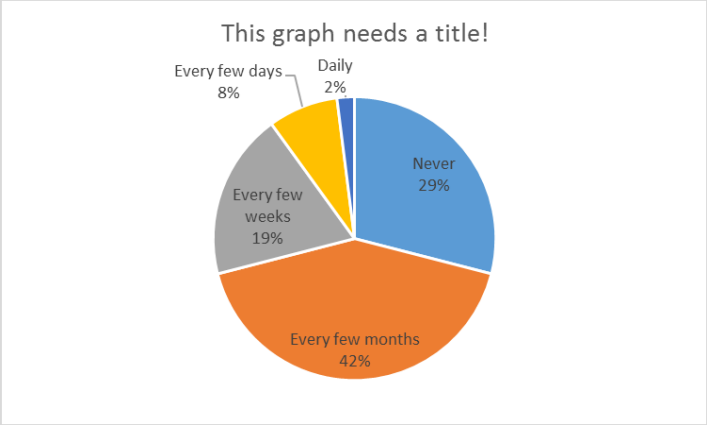
y-axis not starting at 0



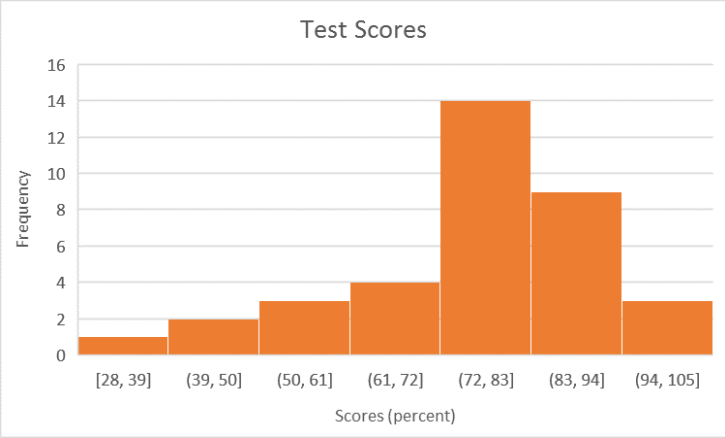
pictograms scaled by height instead of area



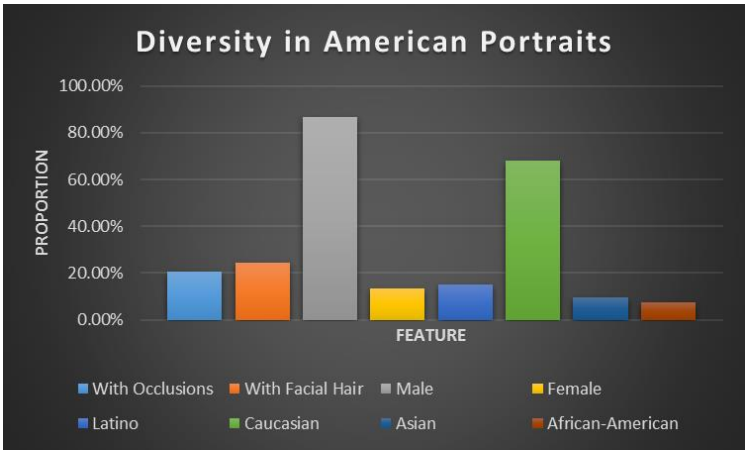
0 is at top instead of at bottom



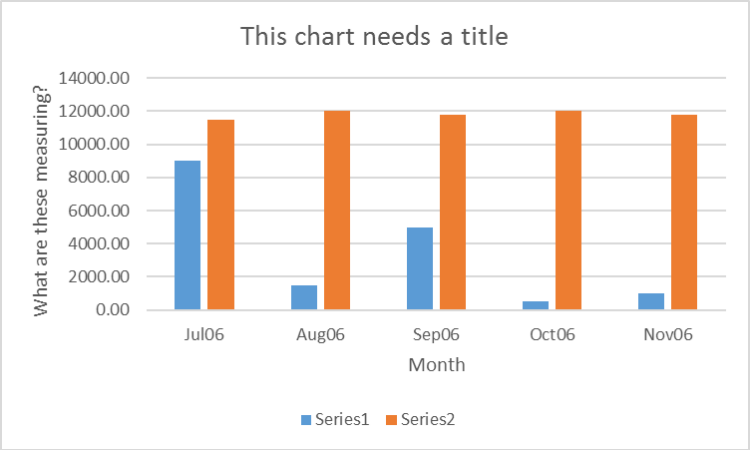
This graph needs a title, and is distorted.



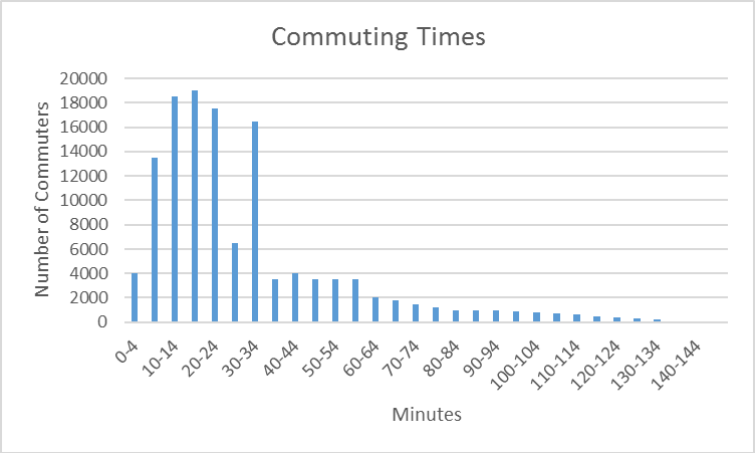
A bar graph is a terrible graph for numerical data. A histogram is better



This data can't go in a pie graph because it doesn't add up to 100%.



I don't know what this graph is measuring, and 3D effects make graph hard to read



Graph has no title. The bins are not the same size. And the units on vertical axis are weird.

2.

a. The bin sizes are not the same: 16-19 is smaller than others, >75 is bigger

b. These bins are the same size, which suggests there is probably a real upward trend on both sides of the graph, despite the different bin sizes

c. 40-44

d. yes. Their fatal crash rate is higher than for more experienced rivers, and it drops sharply after 25.

e. modal class is 75-80 ft

f. 31

g. in modal class

h. we could, but it would not be advisable since this is not categorical data.