Name:	Math 227 / Fall 2019 / Prof. David Soto
Module 3. Sections 3.6, 3.7, 3.8	
Question 1.	
Use the instruction sort(CommuteAtlanta\$Time) to sort and from the CommuteAtlanta data frame. What is the smalle	
Question 2.	
Use the instruction favstats(~Time, data = CommuteAtlan	ta) to display the Five-number summary.
a) What is the value of the median for this data? What is	the <u>meaning</u> of median?
b) What is the value of the first quartile for this data? Wh	at is the meaning of it?
c) What is the value of the third quartile for this data? Wh	nat is the meaning of it?
d) What is the value of the range for this data?	
e) What is the value of the interquartile range, IQR, for thi	is data?

Question 3.

Any data point bigger than the Q3+1.5*IQR is considered a large outlier. What would be this breaking point for the Time variable? Do we have any large outliers in this data?

Question 4.

Any data point bigger than the Q1 - 1.5*IQR is considered a small outlier. What would be this breaking point for the Time variable? Do we have any large outliers in this data?

Question 5.

Use the instruction **gf_boxplot(Time~1, data = CommuteAtlanta)** to draw a boxplot of the Time variable in the CommuteAtlanta data frame.

Which instruction would you use to draw a boxplot of the **Age** variable in the **CommuteAtlanta** data frame? Do you see any outlier on this graph?

Question 6.

Use the instruction **gf_bar(~Sex, data = CommuteAtlanta)** to create a bar graph (kind of a histogram for a categorical variable) of the Sex variable. Would you say that you have significantly more drivers of one sex than the other?

Question 7.

Use the instruction tally(~Sex, data = CommuteAtlanta, format = "proportion") to obtain the proportion of female and male commuters. Which percent of commuters are female? Male?