BUS 210, Quiz #1, Fall 2017

Name **KEY**

Section _____

Instructions: This quiz is to be completed entirely in class. You may not use cell phones, and you may only access internet resources you are specifically directed to use. Go to Blackboard and open the data file posted under Quiz #1. Use it to answer the following questions. Place your answers to the bolded questions directly on this page.

1. In sheet #1, is employee data for Beta Technologies. They have categorized the education levels of their employees using a dummy variable summarized in the table below.

Dummy Variable	Education Level (Highest)
0	High School
2	Associate's Degree
4	Bachelor's Degree
6	Master's Degree
8	Ph.D.

Use the COUNTIF function to construct a table of counts for each of the values in the Education column, and replace the labels with the one's in the table above. Use that data to create a pie graph. **Which education level is most represented in this data? What percent of the employees do they represent?**

See key data file for graph
Bachelor's, 56%

2. Data on commuting times is listed on sheet #2 in the data file. **Calculate the following values and record the answers below.**

   a. Mean   48.09

   b. Median   47.33

   c. Interquartile Range   8.88

   d. 30th Percentile   44.21

   e. Standard Deviation (sample)   7.51

   f. According to the empirical rule, 95% of the data should be between what two values?

   33.08 and 63.11

3. Use the data on sheet #3 to create a time-series graph displaying both the federal funds rate and the prime interest rate (on the same graph). **What do you notice about the data over time?**

There is a general downward trend
Since the 1980's

Submit your completed Excel file to Blackboard, and submit your paper quiz to your instructor in class.