

Math 075 Project#4

Quantitative Data Analysis for Skewed Data Group Poster

Directions: *The class will be separated into groups. Each group is required to pick a “team name” for their group and analyze 1 skewed quantitative data set from the math 075 survey data fall 2015, create a poster summarizing their findings, and present the poster to other students in the class.*

Each group will have a different topic and will pick one of the following data sets from the math 075 survey data fall 2015 to present it to their classmates: Hours work per week, Hours sleep per night, Hours of exercise per week, Number of Minutes to get to school, College GPA, Number of Units completed at COC, Average cell phone bill per month, Dollars spent on a meal when eat out, Number of times eat at restaurant or fast food per week, Number of U.S. states visited, Number of minutes spent on social media.

The Poster Should Have

- **Group/Team Name**
- **First and Last Name of each team members on the poster**
- **Why is this data important or interesting to your group?**
- **Graph: Histogram and Boxplot** (Include outlier fences and outliers in Boxplot.)
- **Measures of Center** (Give the #'s) : mean, median, mode, midrange = $(\max + \min)/2$
- **Measures of Spread** (Give the #'s) : standard deviation, IQR, range, variance
- **Measures of Position** (Give the #s) : min, max, Q1, Q3
- **What is the data measuring?**
- **What are the units?**
- **How many numbers are in the data set** : sample size (n)
- **Shape**
- **Best Center** (Median - Give the #)
- **Average** (Median - Give the #)
- **Best Spread** (IQR - Give the #)
- **Two numbers that typical values fall in between** (Q1 and Q3, Give the #'s)
- **Unusually high values in the data (high outliers)** (Actual unusual # in the data set. Use the boxplot.)
- **Unusually low values in the data (low outliers)** (Actual unusual # in the data set. Use the boxplot.)
- **Decorate Poster**

Presentation

Make sure each person on the team understands the poster and can present your findings. Bring your poster to a designated presentation area in the classroom and hang or tape your poster to a wall. One person at a time will present the poster. We will then rotate so that each member of the team gets to present. Everyone else will listen to presentations and give feedback. (Be Nice!)