

Group Project 1

(Continuous Variable Only)

1. Make a title page with the name of your project, your name and the name of the class.
2. Clearly define the variable of your Study and your Population of interest. (One paragraph). Variable X: The number of miles your hometown is from Valdosta State University.
3. Select a sample of size 60 or more on this variable. Make sure the sample is a good representative of the population. In one paragraph explain how and where the sample was selected (Be very specific). In another paragraph explain why you think your sample is a representative of your population.
4. Do a descriptive statistics on this variable:
Histogram- Is a bell-shape? Skewed to the left? Skewed to the right? Any gaps?
Mean, Median- Are they closed to each other or not and what does it mean?
Standard Deviation-Is it high or low and what does it mean high or low variation in the data set?
5. Build a Box-plot on this variable. Are there any outliers? In one paragraph identify your outliers and make comments about them.
6. From #4, does the data set have a bell-shaped distribution or not? (YES or NO)
If YES- Based on the Empirical rule 95% of the data is within what limits?
IF NO- Based on the Chebyshev's Theorem 94% of the data is within what limits?
7. Conclusion about your study. In one to two paragraphs you should summarize your research findings from #4, #5, and #6.
8. The report should be WELL WRITTEN and TYPED. NO EXCEPTIONS.