Objective: Each student will create displays of the data you collected for the Unit 3 Project.
- ❖ You will be working independently, creating graphs using your data from Unit 3.
- ❖ (Note: If you did not do the Unit 3 Project, see your teacher for data to use for this project. Your project final grade will be reduced by 15% for not having your own data.)

Requirements: Using at least four different questions (biased and unbiased) from the survey you created in your Unit 3 Project, make one of the following of each type of display. You may use all six questions if desired, and you will need to use the data from some questions more than once.
- ❖ Frequency Histogram
- ❖ Relative Frequency Histogram
- ❖ Cumulative Frequency Histogram
- ❖ Ogive
- ❖ Stem-and-Leaf Plot
- ❖ Dot Plot
- ❖ Pie Chart
- ❖ Pareto Chart

Display: Make a poster, booklet, etc… to display your charts and graphs. Each student must turn in his/her own display (this is NOT a group project!)
- ❖ Each display needs to be drawn neatly, with the use of color or shading to add interest.
- ❖ Computers may not be used on this section of the project.
- ❖ Each display is worth up to 10 points (for a total of 80 points for this portion of the project.) SEE RUBRIC BELOW FOR MORE HELP

A grading rubric is shown on the back of this page.

Grading Rubric

Portion Evaluated	Points Possible
Frequency Histogram (accuracy, neatness, appearance, labels and title) X-AXIS: Quantitative Variable with equal sized classes Y-AXIS: Frequency (number in each class)	10
Relative Frequency Histogram (accuracy, neatness, appearance, labels and title) X-AXIS: Quantitative Variable with equal sized classes Y-AXIS: Frequency percent (number in each class divided by total number of observations)	10
Cumulative Frequency Histogram (accuracy, neatness, appearance, labels and title) X-AXIS: Quantitative Variable with equal sized classes Y-AXIS: Total number of observations in that class AND BELOW (cumulative)	10
Ogive (accuracy, neatness, appearance, labels and title) X-AXIS: Quantitative Variable with equal sized classes Y-AXIS: Total frequency percent in that class AND BELOW (cumulative)	10
Stem-and-Leaf Plot (accuracy, neatness, appearance, labels, key, and title) Don't forget a key like 4|5 = 4.5	10
Dot Plot (accuracy, neatness, appearance, labels and title) X-AXIS: Quantitative Variable with equal sized classes X-AXIS: Quantitative Variable with one space for each possible data value from low to high Y-AXIS: Equal size dots with frequency number on y-axis	10
Pie Chart (accuracy, neatness, appearance, labels and title)	10
Pareto Chart (accuracy, neatness, appearance, labels and title) X-AXIS: Qualitative Variable (categories) Y-AXIS: Frequency Don't forget for this chart you have to arrange left to right from most to least.	10

Note: Projects not turned in on time will be reduced in score. Projects that do not have their own data sets to use for displays will be reduced by 15 points.