Chapter 4 Learning Targets

* I can calculate the mean, median, and trimmed mean (if appropriate) for a set of numerical data.
* I know the difference between the population parameters and the sample statistics (including symbols).
* I can calculate a proportion of successes for categorical data.
* I can calculate the range, variance, and standard deviation for a numerical set of data.
* I can calculate Q1, Q3, and the IQR.
* I can choose the appropriate measure of center (mean or median) and the appropriate measure of variation (standard deviation or IQR).
* I can calculate a 5-number summary.
* I can create a skeletal boxplot and, if appropriate, a modified boxplot.
* I can determine if a data point is an outlier, more specifically, a mild or extreme outlier.
* I understand the effect outliers have on the mean and median and the shape of a data set.
* I understand the difference between the Empirical Rule and Chebyshev’s Rule. I know the first three percentages for each of these rules.
* I know the formula for z-score and can interpret a z-score correctly.
* I understand the concept of a percentile and can estimate a percentile from a histogram.