Learning Objectives:

B1. Given a set of raw data, identify the individuals and the variables.
B2. Given a variable, determine whether it is categorical or quantitative.
B3. List which graphical methods (pie charts, histograms, etc.) are appropriate for categorical and for quantitative variables.
B4. Given a histogram, stem plot, or dot plot, determine the number of individuals in a particular range.
B5. Given a set of raw data, create a histogram, dot plot or stemplot by hand or with appropriate software.
B6. Given a histogram, dot plot, or stemplot, describe the distribution’s shape (skewed left, skewed right, symmetric, or multimodal), center, and spread.
B7. Given a histogram, dot plot, or stemplot identify values that would be considered outliers.
B8. Given a graphical summary, propose an explanation of the distribution of the data.
B9. Given a description of a variable, predict what shape the histogram of that variable would take.

Relevant Reading:

Chapter 2 pgs 13-36.

Suggested Practice Problems:

2.1, 2.11, 2.22, 2.30, 2.37, 2.39, 2.40a