CHAPTER 2: METHODS FOR DESCRIBING SETS OF DATA

KEY TERMS & TOPICS

- describing qualitative data:
  - class, class frequency, class relative frequency
  - summary table (frequency distribution)
  - bar graph
  - pie chart

- graphical methods for describing quantitative data
  - dot plot
  - stem-and-leaf display
  - relative frequency histogram

- summation notation: $\sum_{i=1}^{n} x_i = x_1 + x_2 + \ldots + x_n$

- numerical measures of central tendency
  - sample mean $\bar{x}$
  - sample median
  - sample mode
  - population mean $\mu$
  - population median
  - population mode

- numerical measures of variability
  - range
  - sample variance
  - sample standard deviation

- interpreting the standard deviation
  - Chebyshev's Rule
  - Empirical Rule

- numerical measures of relative standing
  - percentile ranking
  - $z$ score

- 5-number summary and boxplots

- outliers

- distorting the truth with descriptive techniques