Feb. 4  Statistic for the day:
Typical length of a Major League
Baseball’s career: 5 to 7 pitches

Assignment: Prepare for Exam 1 on Monday, Feb. 7

Miscellanea
- Empirical rule (68-95-99.7 rule)
- Random (representative) sampling vs. Random assignment of treatments
- Skewness and how it affects mean, median:
  - Skew is in the same direction the MEAN moves relative to the MEDIAN.
  - For instance, if a distribution is skewed to the right, or positively skewed, the mean is larger than the median.

Which Sampling Plan?
- An airline company made a list of all its flights and randomly selected 25 flights. All passengers on these flights were asked to fill out a survey.
- A university divided employees into three categories: Staff, faculty, and student employees. A random sample was selected from each group and they were telephoned and asked their opinions.

Construct a boxplot:
4, 2, 6, 3, 5, 1, 9, 7, 8

Use table on p. 157:
What is the standard score that has each of the following percentages above it?
- 2%
- 50%
- 75%
- 10%

What are the corresponding heights if mean is 68 inches and standard deviation is 4 inches?

Chapter 5 terminology
- Explanatory variable, response variable
- Treatment, control
- Blocking, matching
- Placebo effect, Hawthorne effect
- Single-blind, double-blind
- Confounding (lurking) variable, interacting variable
- Retrospective study, prospective study
- Case-control study
- Ecological validity