Homework 2

page 44: problem 14, 15 (a, c, d, e). page 60: 5-8, 13-18, 19. page 62: 29. page 71: 3-10. page 72 and 74: 14, 31

page 44.

14. a. Type O. b. False. c. True.

15. a. Omitted.

b. A Pareto chart means a bar graph presents the bars in the order of frequency, with the tallest bar presented first and shortest bar presented last. See Figure 2.2 on page 39 for an example.

c. Everyone.

d. False.

e. True.

page 60. 5-8, 13-18, 19.

5. symmetric.

6. left, right.

7. bimodal.

8. frequency.

13. skewed to the left.

14. skewed to the right.

15. Approximately symmetric.

16. Approximately symmetric.

17. bimodal.

18. unimodal.

19. a. 11 classes. b. the width is 1. c. 70-71. d. 9 percent. e. Approximately symmetric.

page 62.

29. The height is 0.15. Note for a histogram, the sum of the relative frequencies is 1.

page 71. 3-10.

3. leaf. 4. stems. 5. time series plot. 6. time.

7. True. 8. False. 9. True. 10. False.

page 72. 14

14. The data values are:

 $14.4, 14.6, 14.8, 14.9, \dots, 18.2, 18.3, 18.8.$

page 74. 31.

a. It is about 115 inches.

b. 1910.

c. less than.

d. True.

e. False.