5. Statistic or Parameter? Among the 641 people who responded to the *USA Today* survey, what is the percentage of respondents who chose the category of boss? When considered in the context of the population of all workers, is that percentage a statistic or a parameter? Explain.

6. Grooming Time Listed below are times (minutes) spent on hygiene and grooming in the morning (by randomly selected subjects) (based on data from a Svenska Cellulosa Aktiebolaget survey). Construct a table representing the frequency distribution. Use the classes 0–9, 10–19, and so on.

0 5 12 15 15 20 22 24 25 25 25 27 27 28 30 30 35 35 40 45

7. Histogram of Grooming Times Use the frequency distribution from Exercise 6 to construct a histogram. Based on the result, do the data appear to be from a population with a normal distribution? Explain.

8. Stemplot of Grooming Times Use the data from Exercise 6 to construct a stemplot.

Technology Project

It was noted in this section that the days of charming and primitive hand-drawn graphs are well behind us, and technology now provides us with powerful tools for generating a wide variety of different graphs. The data sets in Appendix B are available as files that can be opened by statistical software packages, such as STATDISK, Minitab, Excel, SPSS, and SAS. Use a statistical software package to open the male and female body measurements from Data Set 1 in Appendix B. Use the statistical software with the methods of this chapter to describe, explore, and compare the blood platelet measurements of males and females. Does there appear to be a gender difference in blood platelet counts? When analyzing blood platelet counts of patients, should physicians take the gender of patients into account? Support your conclusions with printouts of suitable graphs. (Later chapters will present more formal methods for making such comparisons.)

from data TO DECISION

Flight Planning

Data Set 15 in Appendix B includes data about American Airline flights from New York (JFK airport) to Los Angeles (LAX airport). The data are from the Bureau of Transportation.

Critical Thinking

Use the methods from this chapter to address the following questions.

1. Is there a relationship between taxi-out times at JFK and taxi-in times at LAX? Explain.

2. Is there a relationship between departure delay times at JFK and arrival delay times at LAX? Explain.

3. Arrival delay times are important because they can affect the plans of passengers. Explore the arrival delay times by using the methods of this chapter and comment on the results. Is there very small variation among the arrival delay times? Are there any outliers? What is the nature of the distribution of arrival delay times? Based on the results, are arrival delay times very predictable?