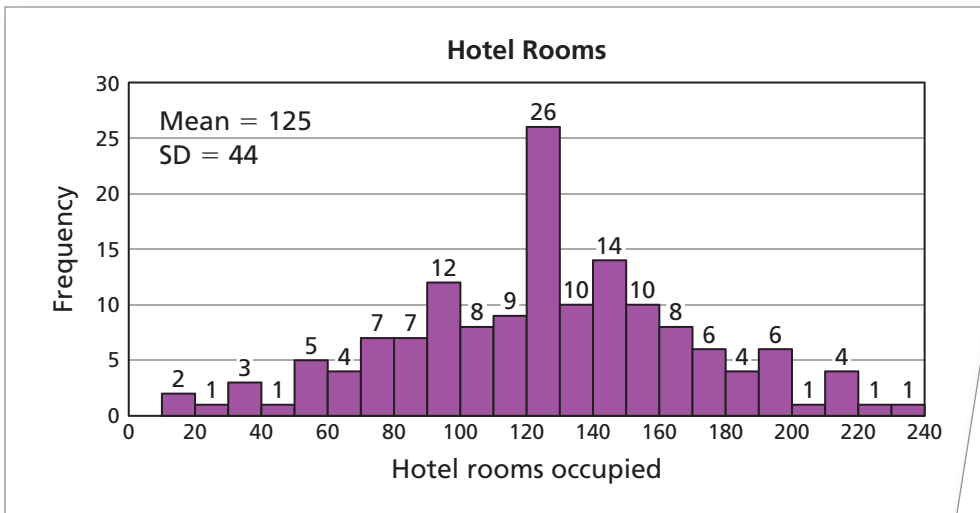


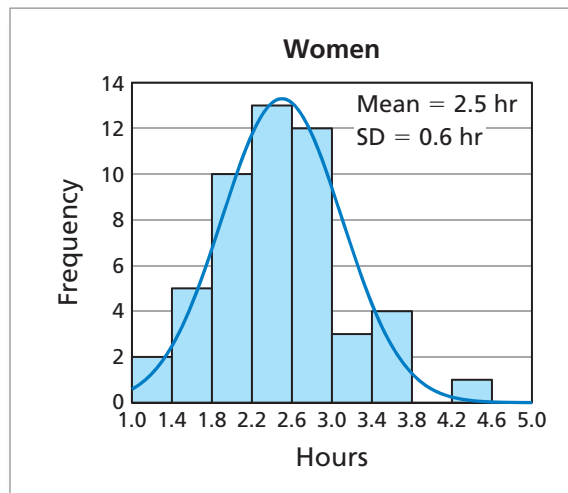
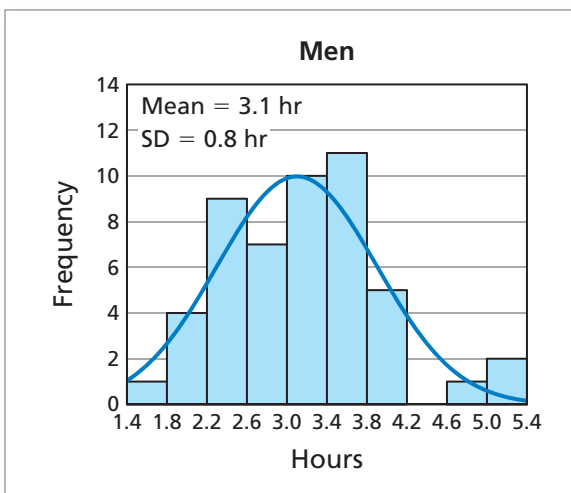
Section 9.3

Hotel Rooms The histogram shows the distribution of the numbers of hotel rooms occupied for 150 days in a year. In Exercises 15–18, use the histogram.



- Does this data set have a normal distribution? Explain your reasoning.
- What percent of the days lie within 1 standard deviation of the mean?
- What percent of the days lie within 2 standard deviations of the mean?
- Compare the percents in Exercises 16 and 17 with the percents given by the normal distribution.

Television The histograms show the distributions of samples of hours of television watched per day by men and women. In Exercises 19 and 20, use the histograms.



- What is the significance of the smaller standard deviation for women?
- Estimate the percents of men and women that watch at least 4 hours of television per day.