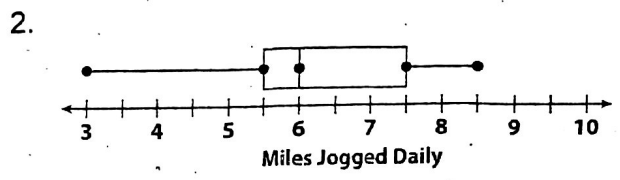
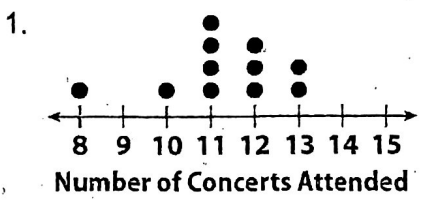


LESSON
10-2

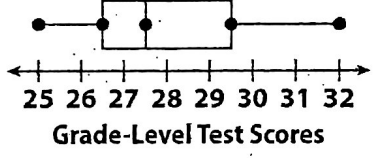
Making Inferences from a Random Sample

Practice and Problem Solving: A/B

What can you infer about the population from each data set represented below?



The box plots show the distribution of grade-level test scores of 20 students in an elementary school. Use the box plots for Exercises 3–6.



- 3. What were the high and low scores for the test?
- 4. The middle fifty percent of students scored between what two values?

- 5. Is 30 a typical test score? If so, explain your reasoning. If not, what is a typical test score?

Solve.

- 6. A seventh-grade student chooses a random sample of 50 out of 400 students. He finds that 7 students have traveled outside the United States. The student claims that over 50 of the 400 students have likely traveled outside the United States. Is the student correct? Explain.

- 7. A metal-fabricating company produces 150,000 souvenir tokens each year. In a random sample of 400 tokens, 3 have stamping errors. Predict the total number of coins that will have stamping errors in a year.
