

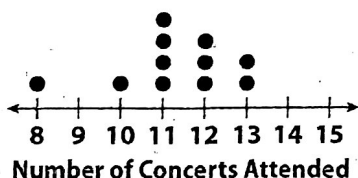
LESSON
10-2

Making Inferences from a Random Sample

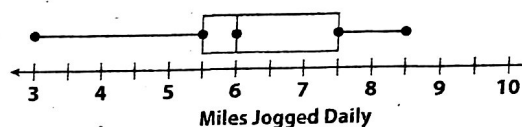
Practice and Problem Solving: A/B

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

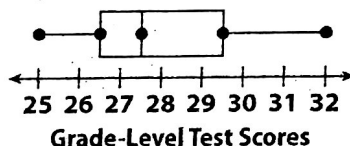
1.



2.



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.