LESSON 11.2

Name _____ Date _____

Practice

For use with pages 588–593

Complete the statement.

1. The interquartile range of a data set is the _____ of the _____ quartile and the _____ quartile.

2. In a box-and-whisker plot, the entire box represents about _____% of the data.

3. In a box-and-whisker plot, one whisker represents about _____% of the data.

Make a box-and-whisker plot of the data.

4. School days missed: 0, 4, 7, 2, 5, 9, 11, 3

5. Fuel economy of small sedans (in miles per gallon): 51, 41, 38, 42, 35, 32, 29, 30

6. Shoe prices (in dollars): 10, 20, 18, 8, 13, 15, 11, 16, 14, 20, 25, 17, 30

7. Battery life in laptop computers (in hours): 5, 3.75, 4.75, 2.75, 3, 5.5, 4, 3.5

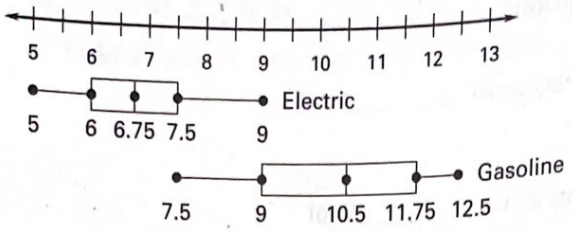
LESSON 11.2 Continued

Name _____

Practice

For use with pages 588–593

The box-and-whisker plots show the weights of electric handheld power blowers and gasoline handheld power blowers.



8. Compare the median, range, and interquartile range for the two types of blowers.

9. About what percent of the electric blowers are less than 7.5 pounds? About what percent of the gasoline blowers are more than 10.5 pounds?

10. Which type of blower would you say is the "lighter" blower? Explain.

In Exercises 11–13, use the following information. An outlier is a data value whose distance from the upper or lower quartile is more than 1.5 times the interquartile range.

11. Make a box-and-whisker plot for the following data (snowfall, in inches, of the top ten snowiest cities in the U.S. in a recent year): 100, 129, 105, 97, 112, 103, 241, 110, 117, 98.

12. Determine if there are any outliers in the snowfall data set. Make a box-and-whisker plot for the data, excluding any outliers.

13. What conclusion(s) can you make from the plot in Exercise 12 that you would not make from the plot in Exercise 11?