Name: _____

8-1 Additional Practice

In 1 and 2, determine whether each question is *statistical* or *not statistical*.

1. How long does it take sixth-grade students to eat lunch?

2. When does Carver Elementary School's summer break begin?

3. Write a statistical question that you might ask to gather data on the cost of a restaurant meal.

4. Write a statistical question that you might ask to gather information about the recycling habits of your neighbors.

5. Tiana asked her classmates, "Will you take Chorus or Music Appreciation next semester?" She collected these responses: 11 classmates chose Chorus and 17 chose Music Appreciation. Make a frequency table to display these data.

6. Dean asked his classmates, "How many apples did you eat last week?" He got the following responses: 7, 5, 5, 5, 7, 3, 2, 1, 0, 0, 4, 3, 2, 1, 0, 7, 5, 6, 7, 0, 2, 2, 1, 4. Make a dot plot to display the data.

7. Why is the following a statistical question? Explain.

   In which months were the students in the class born?

8. Is the following question statistical? Explain.

   How many hours did your friend spend online last night?

In 9–11, use the bar graph at the right.

9. **Make Sense and Persevere** What statistical question might Tessa have asked her classmates to gather the data displayed in the bar graph?

Students' Eye Color

Number of Students

8
7
6
5
4
3
2
1
0

Blue Brown Gray Green Hazel

Eye Color
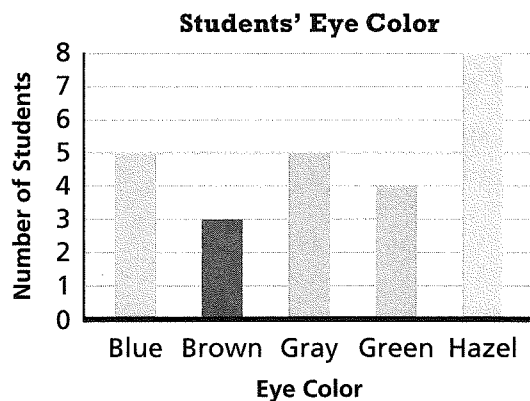
10. **Higher Order Thinking** People with *heterochromia* have two different-colored eyes. A new student in Tessa's class has heterochromia. How might you show that the student has one blue eye and one brown eye on the bar graph? Explain.

11. **Be Precise** Could Tessa represent these data using a dot plot? Explain.

Assessment Practice

12. Charles asked each member of the basketball team these two questions:
    - *How many inches tall are you?*
    - *How many points were scored in the last game?*

PART A

Which of the questions that Charles asked is a statistical question? Explain.

PART B

The results of the statistical question that Charles asked are shown below. Make a dot plot to display the data.

68 70 73 74 72 74 75 76
70 71 73 72 73 70 73 74