Student Guide

First Names (SG pp. 5–6)
Questions 1–14

Answers will vary depending upon class data.
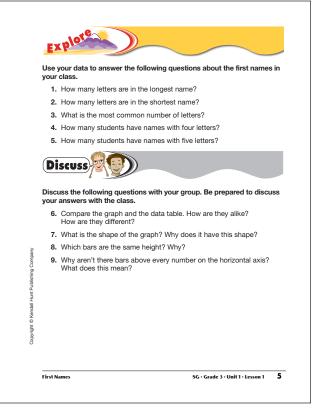
Answers below are based on the data table and graph in Figures 2 and 4.

1. 11 letters

2. 4 letters

3. 7 letters

4. 5 students
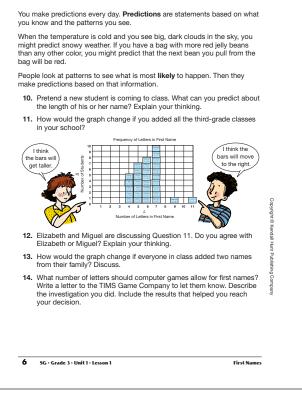
5. 7 students

6.* Comparisons will vary.

   Similarities: the variables in the table are used to label the axes on the graph; the data table and graph both display the same data.

   Differences: the shape of the data in the table is not as apparent as in the graph; the graph is more efficient (you have to count the self-adhesive notes in the table).

7.* Descriptions will vary. The graph looks like a roller coaster. Since the number of letters that are most common are six and seven, the middle of the graph is the highest. Since no one has a name with one or two letters, and since only one student has a really long name—with eleven letters—both ends of the graph have short bars or no bars at all.

8. The bars above the nine and the eleven are the same height because one student has a nine-letter name and one student has an eleven-letter name.

9. Some numbers on the horizontal axis do not have bars above them because zero students have that many letters in their names.

10. Answer should be based on class graph. Students could predict that the new student would be likely to have a name with five, six, or seven letters.

11–12. Elizabeth's thinking makes more sense. She is predicting that many of the other third graders have five, six, or seven letters in their names. Therefore, these new students would place their self-adhesive notes above the bars that already exist. The bars would grow taller.

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*Answers and/or discussion are included in the lesson.

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13. Even though family members may be older than the third graders, the lengths of their names are not necessarily longer. Many members would probably have five, six, or seven letters in their names. Their self-adhesive notes would make the bars grow taller.
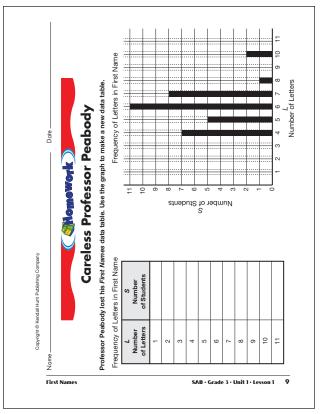
14. Answers will vary.
Possible responses can include: The computer game should allow 7 letters because most of the people in our class have 7 letters in their name. Or, The computer game should allow 6 letters because that would let more than half of the people in our class put in their whole name. Someone might suggest that the computer game should allow 11 letters so that everyone in the class could put in their whole name.

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Answers for *Family Names Data Table* and *Family Names Graph* will vary depending on student data.

Careless Professor Peabody (SAB p. 9)

L Number of Letters	S Number of Students
1	0
2	0
3	0
4	7
5	5
6	11
7	8
8	1
9	0
10	2
11	0

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