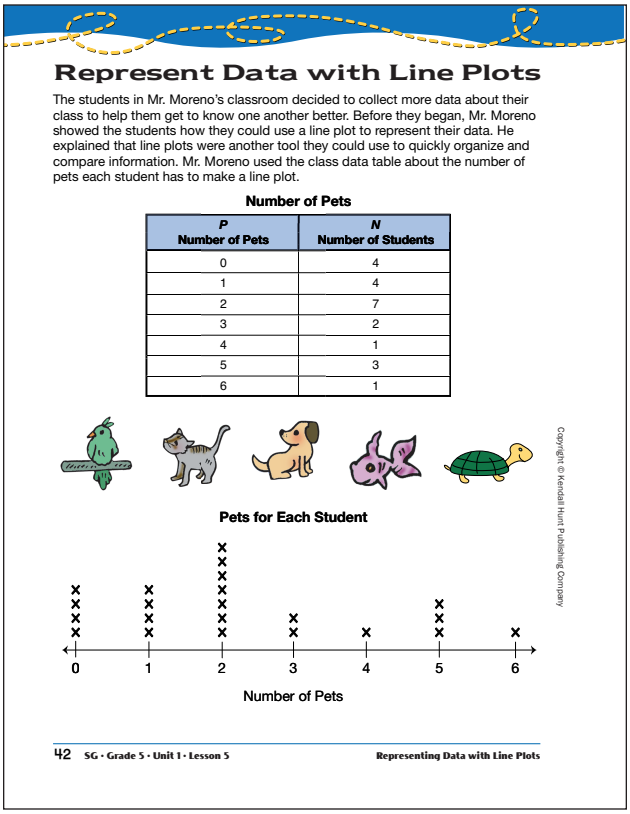
Student Guide

Represent Data with Line Plots (SG pp. 42–43) Questions 1–5

1. **A.*** The number of pets students have.
   B.* The number of students that have that number of pets.
2. **A.*** The mode is the number that has the most Xs above it.
   B.* Possible response: You can count the total number of Xs and then find the middle value to find the median. Or, you can count in from each end of the line plot until you get to the middle value.
3. **A.*** You can count the number of Xs that are above the 0, 1, 2, and 3.
   B. 5 students
4. 49 pets
5.* Line plots are like bar graphs because the Xs stack like bars. You can use a line plot to see how many students have each number of pets. They are different because there is no vertical axis so you need to count the Xs to see the value of each "bar".



Represent Data with Line Plots

The students in Mr. Moreno's classroom decided to collect more data about their class to help them get to know one another better. Before they began, Mr. Moreno showed the students how they could use a line plot to represent their data. He explained that line plots were another tool they could use to quickly organize and compare information. Mr. Moreno used the class data table about the number of pets each student has to make a line plot.

Number of Pets

P Number of Pets	N Number of Students
0	4
1	4
2	7
3	2
4	1
5	3
6	1

Pets for Each Student

Number of Pets

42 SG • Grade 5 • Unit 1 • Lesson 5 Representing Data with Line Plots

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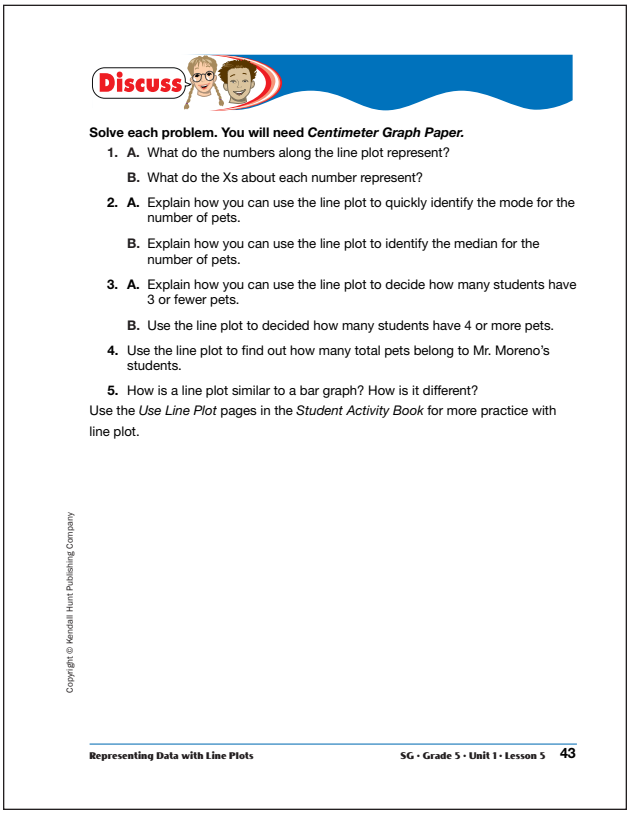
Student Guide - Page 42



Discuss

Solve each problem. You will need *Centimeter Graph Paper.*

1. **A.** What do the numbers along the line plot represent?
   B. What do the Xs about each number represent?
2. **A.** Explain how you can use the line plot to quickly identify the mode for the number of pets.
   B. Explain how you can use the line plot to identify the median for the number of pets.
3. **A.** Explain how you can use the line plot to decide how many students have 3 or fewer pets.
   B. Use the line plot to decided how many students have 4 or more pets.
4. Use the line plot to find out how many total pets belong to Mr. Moreno's students.
5. How is a line plot similar to a bar graph? How is it different?

Use the *Use Line Plot* pages in the *Student Activity Book* for more practice with line plot.

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Representing Data with Line Plots SG • Grade 5 • Unit 1 • Lesson 5 43

Student Guide - Page 43

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