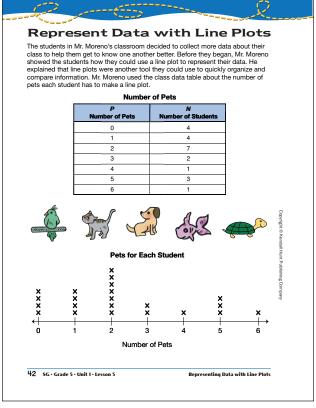
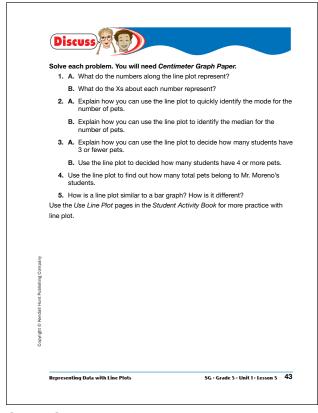
## Student Guide

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

- **I. 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".

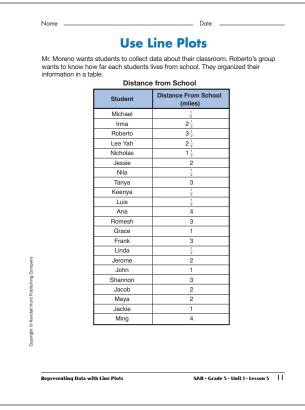


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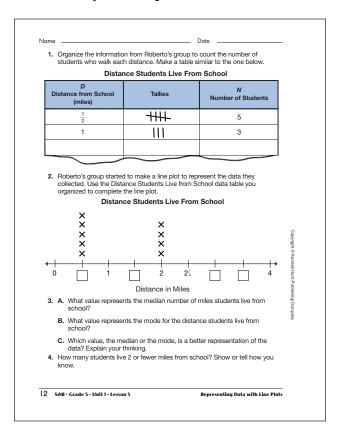


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<sup>\*</sup>Answers and/or discussion are included in the lesson.



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#### Student Activity Book - Page 12

## Student Activity Book

## Use Line Plots (SAB pp. 11-15) Questions 1-12

**Distance Students Live From School** 

Distance from School (miles)	Tallies	Number of Students
1/2	+++-	5
1	111	3
$1\frac{1}{2}$	1	1
2	1111	4
$2\frac{1}{2}$	П	2
3	1111	4
3 1/2	1	1
4	П	2

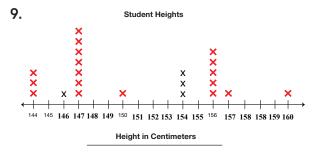


- **3. A.** 2 miles
  - **B.**  $\frac{1}{2}$  mile
  - **C.** Possible response: I think the median is better because most of the students live more than  $\frac{1}{2}$  mile from school so that is not typical.
- 4. 13 students; Possible response: I counted all of the Xs that were above the  $\frac{1}{2}$ , 1,  $1\frac{1}{2}$ , and 2 mile distance.

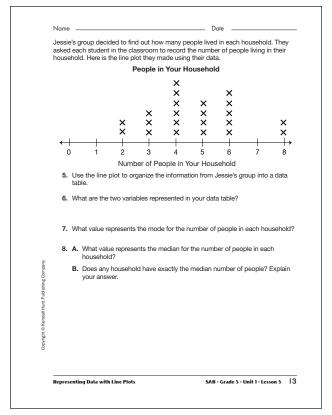
5.*	People in Your Household
٠.	r eople iii Toui Housenoiu

Number of People in Your Household	Tallies	Number of Students
0		0
1		0
2	П	2
3	111	3
4	+++-1	6
5	Ш	4
6	+++-	5
7		0
8	11	2

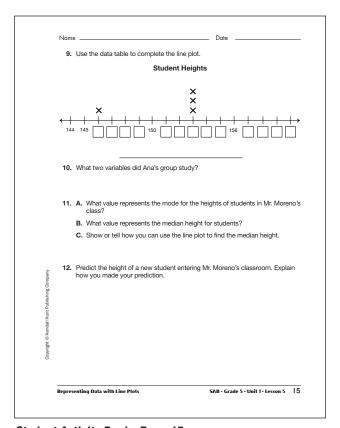
- **6.** Number of People in Your Household and Number of Students
- **7.** 4 people
- **8. A.\***  $4\frac{1}{2}$  people
  - **B.\*** No, it would not be possible to have  $\frac{1}{2}$  of a person in a family.



- 10. Height in Centimeters and Number of Students
- II. A. 147 centimeters
  - **B.**  $148\frac{1}{2}$  centimeters
  - C. Possible response: I know there are 22 students in the class so I started at 144 centimeters and counted 11 students, then I counted back 11 students starting at 160 centimeters. I found the median would be halfway between 147 centimeters and 150 centimeters.
- **12.** Possible response: I think a new student would be 147 or 148 centimeters tall because that is close to the average height for the classroom.



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<sup>\*</sup>Answers and/or discussion are included in the lesson.