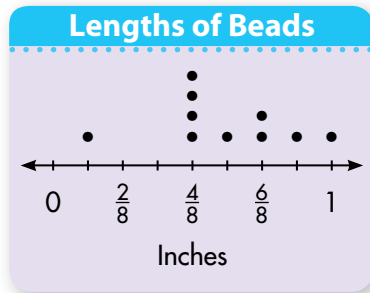


# Homework & Practice 11-3

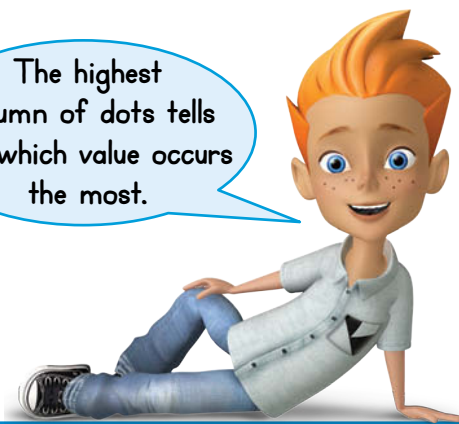
## Use Line Plots to Solve Problems

### Another Look!

Belle made a bracelet using beads of different sizes. The line plot shows how many beads of each size Belle used. Which length of bead did Belle use most often? How many beads did Belle use to make her bracelet?



The highest column of dots tells you which value occurs the most.



Belle used a  $\frac{4}{8}$ -inch bead most often.

Belle used 10 beads to make her bracelet.

For 1–2, use the data set below.

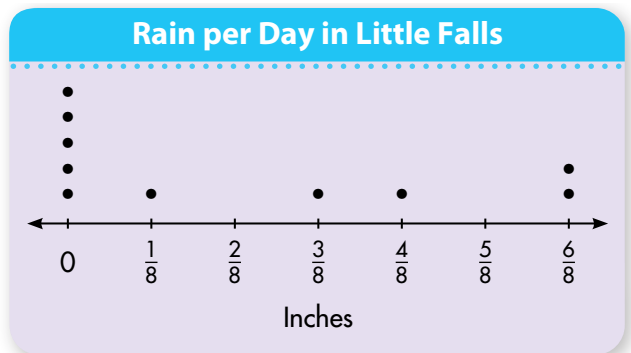
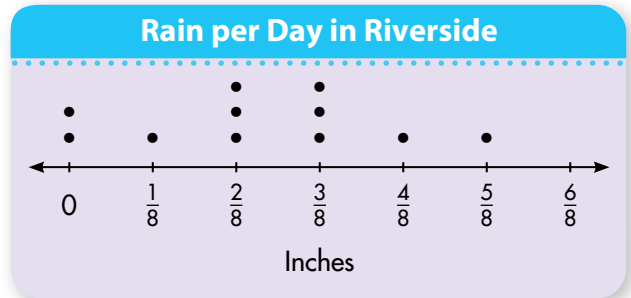
DATA	Length of Time to Say the Alphabet (in seconds)
	5, 4, $4\frac{1}{2}$ , 6, 5, $6\frac{1}{2}$ , $5\frac{1}{2}$ , 7, $5\frac{1}{2}$ , $7\frac{1}{2}$ ,
	6, $4\frac{1}{2}$ , $4\frac{1}{2}$ , $4\frac{1}{2}$ , 4, 6, $4\frac{1}{2}$ , $5\frac{1}{2}$ , 5, $6\frac{1}{2}$

- The table lists the length of time in seconds it takes for each student in Ms. Sousa’s class to say the alphabet. Make a line plot of the data.
- Meghan says the difference between the least amount of time it takes a student to say the alphabet and the greatest amount of time is  $4\frac{1}{2}$  seconds. Do you agree? Explain.

3. **Math and Science** To predict volcanic eruptions, scientists may use a seismograph to detect small earthquakes. Out of the 169 active volcanoes in the U.S., about 130 are in Alaska. About how many active U.S. volcanoes are **NOT** in Alaska?
4. **MP.1 Make Sense and Persevere** Teddy has blue, red, and black shirts. He has six blue shirts and two red shirts. He has twice as many black shirts as red shirts. What fraction represents the number of blue shirts out of the total number of shirts?

For 5–7, use the line plots at the right.

5. The line plots show the amount of rainfall in two cities during one month. How many total days of no rain did the two cities have?
6. Which city had fewer days of rain? How many fewer? Write and solve an equation to explain.
7. **Higher Order Thinking** Which city had the greatest amount of total rainfall? Explain.



### Common Core Assessment

8. How many pounds of oranges do the data in the line plot represent? Use equivalent fraction to select all that apply.

- $37\frac{4}{8}$  pounds
- $37\frac{7}{2}$  pounds
- $37\frac{28}{8}$  pounds
- $40\frac{1}{2}$  pounds
- $40\frac{4}{8}$  pounds

