

Additional Practice 10-2 Make Line Plots

Another Look!

Mick recorded the lengths of 10 Steller sea lions. Which length occurs most often?

Steller Sea Lion Lengths (in feet)				
$9\frac{1}{4}$	$9\frac{1}{8}$	$8\frac{3}{4}$	$9\frac{1}{4}$	$9\frac{1}{4}$
$9\frac{3}{8}$	$9\frac{1}{4}$	$9\frac{1}{8}$	$9\frac{1}{4}$	$9\frac{1}{8}$

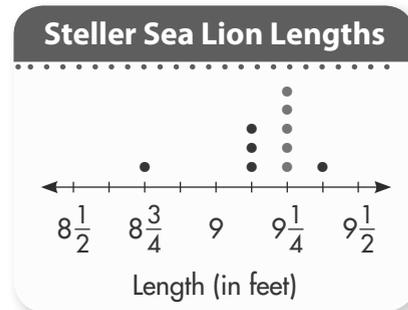
Step 1

Make a frequency table to organize the data.

Value	Tally	Frequency
$8\frac{3}{4}$		1
$9\frac{1}{8}$		3
$9\frac{1}{4}$		5
$9\frac{3}{8}$		1

Step 2

Make a line plot. Draw a dot for each value. Stack dots for values that occur more than once.



The length $9\frac{1}{4}$ feet occurs most often.

- Jacob and his father measured the lengths of scrap wood in their yard. Make a line plot of their data.

Scrap Wood Lengths (in inches)					
$4\frac{1}{2}$	$4\frac{7}{8}$	5	$4\frac{1}{4}$	$4\frac{1}{2}$	$4\frac{3}{8}$
$4\frac{1}{8}$	$4\frac{1}{2}$	$4\frac{1}{4}$	$4\frac{3}{4}$	$4\frac{1}{2}$	$4\frac{1}{2}$
$4\frac{5}{8}$	$4\frac{3}{4}$	$4\frac{1}{4}$	$4\frac{1}{8}$	$4\frac{1}{2}$	$4\frac{7}{8}$

- What is the difference between the longest and shortest pieces of scrap wood?



In 3 and 4, use the table showing data from recipes used in a chili cooking contest.

3. **Make Sense and Persevere** Draw a line plot of the data.

Cups of Beans in One Batch				
5	$5\frac{1}{2}$	$4\frac{1}{2}$	$4\frac{1}{2}$	$4\frac{1}{2}$
$4\frac{1}{2}$	$4\frac{1}{2}$	$4\frac{1}{2}$	$4\frac{3}{4}$	$4\frac{1}{2}$

4. **Higher Order Thinking** Suppose the contestants were asked to make two batches of their recipe instead of one batch. Would the value for the amount of beans that occurred most often be different? Explain.

5. A restaurant has $6\frac{1}{2}$ pounds of jalapeño peppers, $4\frac{3}{4}$ pounds of red bell peppers, and $5\frac{1}{4}$ pounds of poblano peppers. How many pounds of peppers does the restaurant have in all?

6. Jessica and her friend measured the lengths of the fish they caught one day. Make a line plot of their data.

Fish Lengths (in cm)			
10.25	10.50	11.75	12.00
10.75	11.00	11.25	11.50
11.25	11.25	11.50	11.00

Assessment Practice

7. The list below shows the weight in ounces of various rock samples. Use the data to complete the line plot on the right.

$8\frac{1}{4}$, $7\frac{1}{2}$, $5\frac{1}{4}$, $6\frac{3}{4}$, 7, 7, $8\frac{1}{4}$, $5\frac{1}{4}$,
 $5\frac{1}{4}$, $7\frac{1}{2}$, 7, 7, $6\frac{3}{4}$, 7

