

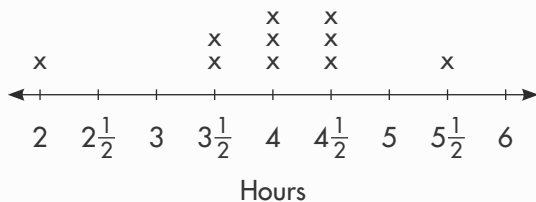
# Additional Practice 10-3

## Solve Word Problems Using Measurement Data

### Another Look!

Mr. Culver made a line plot to show the number of hours students worked on a class project. What was the total number of hours that the students worked?

Number of Hours Spent on Class Project



Remember, each X represents one student.



Use the line plot to make a frequency table.

Multiply each number of hours by its frequency. The product is the total amount for that value.

Add the products.

$$2 + 7 + 12 + 13\frac{1}{2} + 5\frac{1}{2} = 40$$

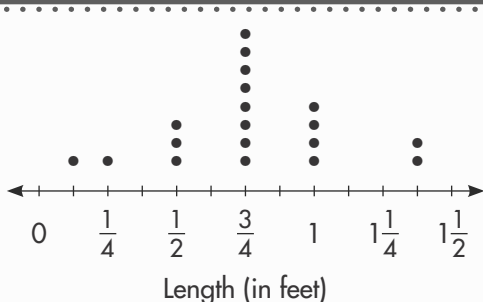
The students spent a total of 40 hours on the project.

Hours	Frequency	Multiplication
2	1	$1 \times 2 = 2$
$3\frac{1}{2}$	2	$2 \times 3\frac{1}{2} = 7$
4	3	$3 \times 4 = 12$
$4\frac{1}{2}$	3	$3 \times 4\frac{1}{2} = 13\frac{1}{2}$
$5\frac{1}{2}$	1	$1 \times 5\frac{1}{2} = 5\frac{1}{2}$

In 1 and 2, use each line plot to answer the question.

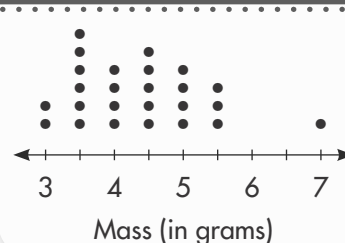
- Wai recorded the length of each wire needed for a science project. What is the total length of wire needed?

Length of Wires



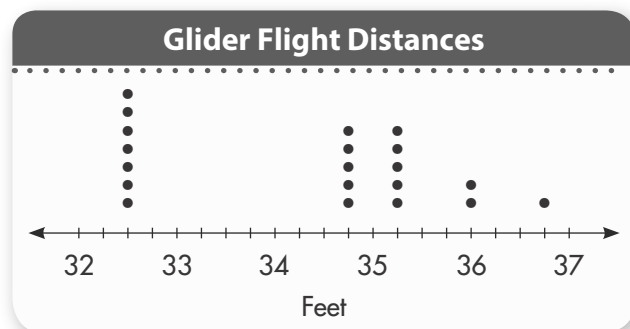
- Trey measured the mass of some pebbles. What is the combined mass of the pebbles that are  $4\frac{1}{2}$  grams or more?

Pebble Masses



In **3** and **4**, Dominick's class flew toy gliders. He recorded the flight distances in a line plot.

3. What is the difference between the longest and shortest distances the gliders flew?
4. Did more gliders fly farther or shorter than 35 feet? Explain.



5. **enVision® STEM** On June 1, 2013, the number of hours of daylight in Anchorage, Alaska was  $18\frac{1}{4}$  hours. What was the number of hours without daylight?

6. **Number Sense** How could you estimate the quotient  $162 \div 19$ ?

7. **Reasoning** Nolan listed the weights of oranges in a box in the frequency table. Which is greater, the total weight of the 6.25-ounce oranges or the total weight of the 7.25-ounce oranges? How much more? Explain.

Weight (in ounces)	Frequency	Multiplication
6.25	13	?
6.5	16	$16 \times 6.5 = 104$
6.75	20	$20 \times 6.75 = 135$
7.0	14	$14 \times 7.0 = 98$
7.25	9	?

### Assessment Practice

8. Anita recorded the amount of rainfall each day for 14 days. What was the total amount of rainfall in the 14 days?

- (A)  $6\frac{7}{8}$  in.
- (B)  $4\frac{1}{2}$  in.
- (C)  $3\frac{3}{8}$  in.
- (D)  $\frac{1}{8}$  in.

