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## 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?

## Additional

Practice 10-3
Solve Word
Problems Using
Measurement Data

## Number of Hours Spent on Class Project




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.

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

$14 \frac{5}{8}$ feet
2. Trey measured the mass of some pebbles. What is the combined mass of the pebbles that are $4 \frac{1}{2}$ grams or more?


66 grams

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?
$4 \frac{1}{4}$ feet
4. Did more gliders fly farther or shorter than 35 feet? Explain. 12 flew shorter than 35 feet: 7 flew $32 \frac{1}{2}$ feet and 5 flew
 $34 \frac{3}{4}$ feet. 8 flew farther than 35 feet: 5 flew $35 \frac{1}{4}$ feet, 2 flew 36 feet, and 1 flew $36 \frac{3}{4}$ feet. More flew shorter than 35 feet.
5. enVision ${ }^{\circledR}$ 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? $5 \frac{3}{4}$ hours
6. Number Sense How could you estimate the quotient $162 \div 19$ ?
Sample answer: Use compatible numbers: $160 \div 20=8$
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. The $6.25-0 z$ oranges weigh 16 oz more. $6.25 \times 13=81.25$ and $7.25 \times 9=65.25 ; 81.25>65.25$;

| 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 | ? | $81.25-65.25=16$

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