Represent and Interpret Line Plots

Use the data to complete the line plot. Then answer the questions.

A clerk in a health food store makes bags of trail mix. The amount of trail mix in each bag is listed below.

$$\frac{1}{4} \text{ lb}, \frac{1}{4} \text{ lb}, \frac{3}{4} \text{ lb}, \frac{1}{2} \text{ lb}, \frac{1}{4} \text{ lb}, \frac{3}{4} \text{ lb},$$

$$\frac{3}{4} \text{ lb}, \frac{3}{4} \text{ lb}, \frac{1}{2} \text{ lb}, \frac{1}{4} \text{ lb}, \frac{1}{2} \text{ lb}, \frac{1}{2} \text{ lb}$$

1. What is the combined weight of the $\frac{1}{4}$-lb bags? _____1 lb_____
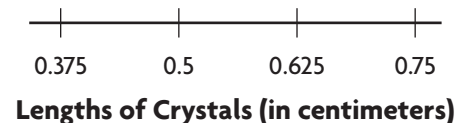
   Think: There are four $\frac{1}{4}$-pound bags.

2. What is the combined weight of the $\frac{1}{2}$-lb bags? _____

3. What is the combined weight of the $\frac{3}{4}$-lb bags? _____

$$
\begin{array}{ccc}
+ & + & + \\
\frac{1}{4} & \frac{1}{2} & \frac{3}{4}
\end{array}
$$

Weight of Trail Mix (in pounds)

4. What is the total weight of the trail mix used in

   all the bags? _____

5. What is the range of the weights of the trail mix? _____

Siroun uses crystals to make a bracelet. The lengths of the crystals are shown below.

0.5 cm, 0.625 cm, 0.75 cm, 0.5 cm, 0.375 cm, 0.5 cm, 0.75 cm, 0.375 cm, 0.75 cm, 0.625 cm, 0.5 cm, 0.375 cm, 0.625 cm, 0.75 cm

$$
\begin{array}{cccc}
+ & + & + & + \\
0.375 & 0.5 & 0.625 & 0.75
\end{array}
$$

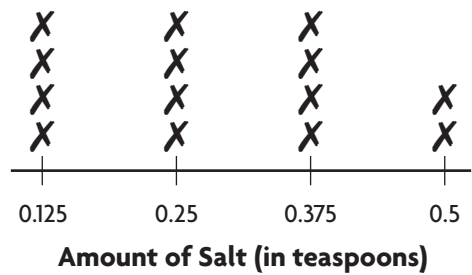**Lengths of Crystals (in centimeters)**

6. What is the combined length of the 0.5-cm crystals? _____

7. What is the combined length of the 0.625-cm crystals? _____

8. What is the total length of all the crystals in the bracelet? _____

9. What is the mean length of each crystal in the bracelet? Round to the nearest

   thousandth. _____

10. **WRITE** ▸ *Math* Describe the steps you can use to find the mean of the decimal amounts.

_____

Lesson Check

A baker uses different amounts of salt when she bakes loaves of bread, depending on which recipe she is following. The amount of salt called for in each recipe is shown on the line plot.

Amount of Salt (in teaspoons)

11. Based on the line plot, how many recipes call for more than 0.25 teaspoons of salt?

12. What is the mean for the amount of salt called for in each recipe? Round to the nearest tenth.

13. What is the range of the amounts of salt?

Spiral Review

14. Ramona had $8\frac{3}{8}$ in. of ribbon. She used $2\frac{1}{2}$ in. for an art project. How many inches of ribbon does she have left? Find the difference in simplest form.

15. Ziazan bought $\frac{1}{2}$ pound of cheese for 3 sandwiches. If he puts the same amount of cheese on each sandwich, how much cheese will each sandwich have?

16. What is 92.583 rounded to the nearest tenth?

17. In Yoshi's garden, $\frac{3}{4}$ of the flowers are tulips. Of the tulips, $\frac{2}{3}$ are yellow. What fraction of the flowers in Yoshi's garden are yellow tulips?