Share and Show Math Board

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

Liliana needs to buy beads for a necklace. The beads are sold by mass. She sketches a design to determine what beads are needed, and then writes down their sizes. The sizes are shown below.

0.4 g, 0.4 g, 0.8 g, 0.4 g, 0.2 g, 0.6 g, 0.2 g

0.8 g, 0.2 g, 0.4 g, 0.6 g, 0.6 g, 0.4 g

1. What is the combined mass of the beads with a mass of 0.2 gram?

Think: There are _____ Xs above 0.2 on the line plot, so the combined mass of the beads is _____ gram.
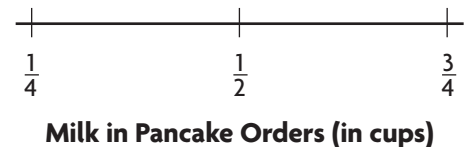
X
X
X
|———————+———————+———————+
0.2   0.4   0.6   0.8

Mass of Beads (in grams)
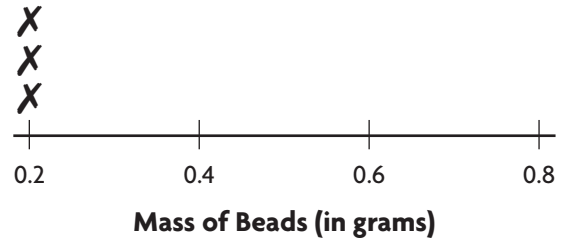
✓ **2.** What is the combined mass of all the beads with a mass of 0.4 gram?

_____

✓ **3.** What is the combined mass of all the beads on the necklace?

_____

4. What is the mean mass of the beads on the necklace? Round to the nearest thousandth.

_____

On Your Own

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

A breakfast chef used different amounts of milk when making pancakes, depending on the number of pancakes ordered. The results are shown below.

$\frac{1}{2}$ c, $\frac{1}{4}$ c, $\frac{1}{2}$ c, $\frac{3}{4}$ c, $\frac{1}{2}$ c, $\frac{3}{4}$ c, $\frac{1}{2}$ c, $\frac{1}{4}$ c, $\frac{1}{2}$ c, $\frac{1}{2}$ c

+———————————+———————————+
$\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$

Milk in Pancake Orders (in cups)

5. How much milk combined is used in $\frac{1}{2}$-cup amounts? _____

7. How many more orders of pancakes used $\frac{1}{2}$ cup of milk than $\frac{1}{4}$ cup and $\frac{3}{4}$ cup of milk combined?

_____

6. What is the mean amount of milk used for an order of pancakes?

MATH on the ▶ Spot

_____

**8.** MTR Describe an amount you could add to the data that would make the mean increase.

_____
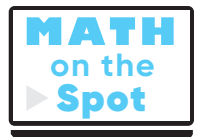
9. **MTR** For 10 straight days, Samantha measured the amount of food that her cat Dewey ate, recording the results, which are shown below. Graph the results on the line plot. What is the mean for the amount of cat food that Dewey ate daily?

0.5 scoop, 0.375 scoop, 0.625 scoop, 0.5 scoop, 0.625 scoop, 0.25 scoop, 0.75 scoop, 0.25 scoop, 0.5 scoop, 0.625 scoop

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+-------+-------+-------+-------+-------+
0.25   0.375    0.5    0.625   0.75
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Amount of Cat Food Eaten (in scoops)
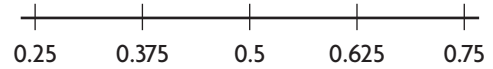
a. What do you need to know? _____

_____

b. How can you use a line plot to organize the information?

_____

_____

c. What steps could you use to find the mean for the amount of food that Dewey ate daily?

_____

_____

d. Fill in the blanks for the totals of each amount measured.

0.25 scoop = _____ scoop

0.375 scoop = _____ scoop

0.5 scoop = _____ scoop

0.625 scoop = _____ scoop

0.75 scoop = _____ scoop

e. Find the total amount of cat food eaten over 10 days.

_____ + _____ + _____ + _____ +

_____ = _____

So, the mean amount was _____.

10. Maya measured the heights of the seedlings she is growing. The heights were 1 in., $1\frac{1}{2}$ in., $\frac{1}{2}$ in., $\frac{3}{4}$ in., 1 in., $\frac{3}{4}$ in., $1\frac{1}{2}$ in., 1 in., $\frac{1}{2}$ in., and 1 in. Organize the information in a line plot.

What is the range of the height of the seedlings?
_____ inch