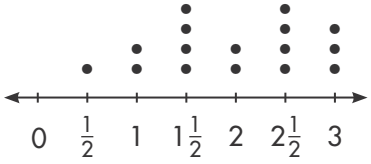
Name _____

Topic **11**
Assessment

**1.** What is the difference between the longest and shortest ribbons?

**Marti's Craft Ribbon**




**2.** How many dots would be placed above $2\frac{1}{2}$ in a line plot of these data?

| Glasses of Water | | | | |
|---|---|---|---|---|
| $1\frac{1}{2}$ | $2\frac{1}{2}$ | $1\frac{3}{4}$ | 2 | $1\frac{3}{4}$ |
| $2\frac{1}{4}$ | 3 | $1\frac{1}{2}$ | $2\frac{1}{2}$ | $3\frac{1}{2}$ |
| $1\frac{3}{4}$ | 2 | $3\frac{1}{2}$ | $1\frac{1}{4}$ | $2\frac{1}{4}$ |

Ⓐ 3 dots

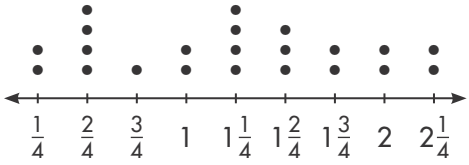
Ⓑ 2 dots

Ⓒ 1 dot

Ⓓ 0 dots

**3.** Which is the least common distance from home to school?

**Distances from Home to School**




**4.** In a gas mileage study for cars, the number of gallons of gasoline 12 cars used to travel 100 miles was recorded in the table below.

| Gallons Needed to Drive 100 Miles | | | |
|---|---|---|---|
| 3 | $3\frac{1}{2}$ | 5 | $3\frac{1}{4}$ |
| $3\frac{1}{2}$ | 3 | $4\frac{1}{2}$ | $2\frac{1}{2}$ |
| $3\frac{1}{4}$ | 4 | $4\frac{3}{4}$ | $3\frac{1}{4}$ |

**A.** Use the data in the table to draw a line plot.

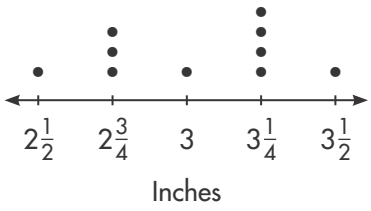
**B.** How many fewer gallons did the car that used the least number of gallons use than the car that used the greatest number of gallons? Explain.



**5.** Use the line plot below. Select all the true statements.

**Lengths of Fish in an Aquarium**




- ☐ The shortest fish is 3 inches.
- ☐ More fish have a length of $2\frac{3}{4}$ inches than $3\frac{1}{4}$ inches.
- ☐ There are fewer fish less than 3 inches long than fish greater than 3 inches long.
- ☐ The longest fish is 1 inch longer than the shortest fish.
- ☐ There are 4 fish with a length of $3\frac{1}{4}$ inches.

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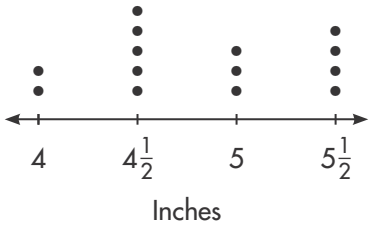
**6.** Miss Long's class measured their pencils, and the students recorded the lengths. How many pencils did they measure? Use the line plot.

**Lengths of Students Pencils**




**7.** Use the line plot from Exercise 6. How many students measured pencils that were less than 5 inches?

Ⓐ 10 Ⓒ 7

Ⓑ 5 Ⓓ 12

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**8.** Terri recorded the pounds of tomatoes produced by each of her 15 plants.

| Pounds of Tomatoes per Plant | | | | |
|---|---|---|---|---|
| 7 | $5\frac{1}{2}$ | 6 | $6\frac{1}{2}$ | $6\frac{1}{2}$ |
| $8\frac{1}{2}$ | 9 | $6\frac{1}{2}$ | $7\frac{1}{2}$ | $8\frac{1}{2}$ |
| $8\frac{1}{2}$ | 7 | $7\frac{1}{2}$ | $8\frac{1}{2}$ | $6\frac{1}{2}$ |

**A.** Use the data in the table to draw a line plot.

**B.** Select all of the statements that are true.

- ☐ The greatest number of pounds is $4\frac{1}{2}$ pounds more than the least number of pounds
- ☐ More than half the plants produced at least 7 pounds of tomatoes.
- ☐ The greatest weight of tomatoes per plant is 6 pounds.
- ☐ The greatest weight of tomatoes per plant is 9 pounds.
- ☐ The least weight of tomatoes per plant is 6 pounds.


 