

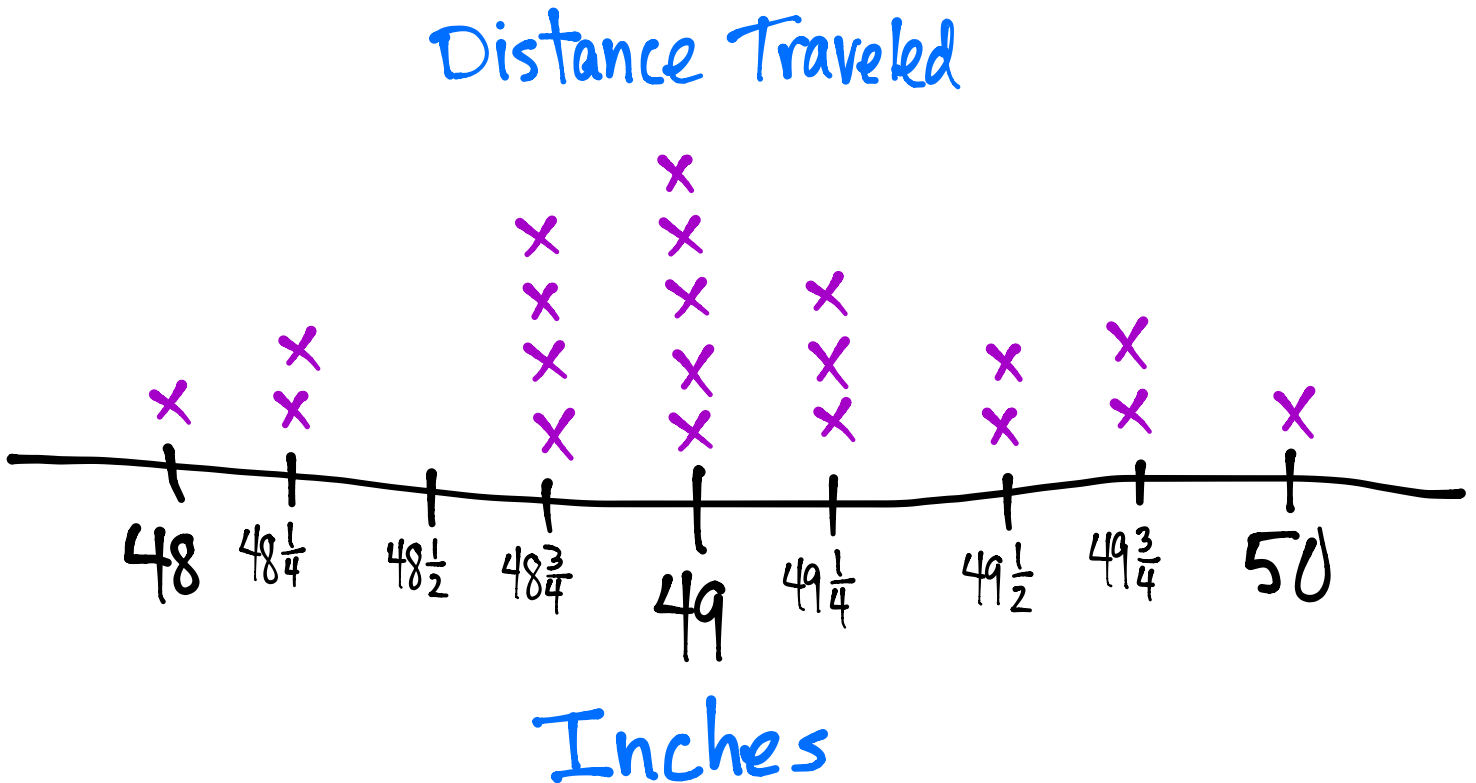
Name _____

Date _____

Mrs. Leah’s class uses what they learned about simple machines to build marshmallow launchers. They record the distances their marshmallows travel in the chart below.

Distance Traveled (in Inches)				
$48\frac{3}{4}$	49	$49\frac{1}{4}$	50	$49\frac{3}{4}$
$49\frac{1}{2}$	$48\frac{1}{4}$	$49\frac{1}{2}$	$48\frac{3}{4}$	49
$49\frac{1}{4}$	$49\frac{3}{4}$	48	$49\frac{1}{4}$	$48\frac{1}{4}$
49	$48\frac{3}{4}$	49	49	$48\frac{3}{4}$

a. Use the data to create a line plot below.



- b. Explain the steps you took to create the line plot.

(Answers will vary.)

Responses will include:

- include title and label
- choose minimum and maximum for line plot
- place X's on line plot

- c. How many more marshmallows traveled $48\frac{3}{4}$ inches than $48\frac{1}{4}$ inches?

2 more

- d. Find the three most frequent measurements on the line plot. What does this tell you about the distance that most of the marshmallows traveled?

Three most frequent: $48\frac{3}{4}$, 49, $49\frac{1}{4}$

Most marshmallows traveled around 49 inches.