

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.

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

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?

## Answer Key

- a. Line plot completed; Distance Traveled; inches;  $x = 1$  marshmallow
- b. Answers will vary.
- c. 2
- d. Explanations will vary.