



Name \_\_\_\_\_

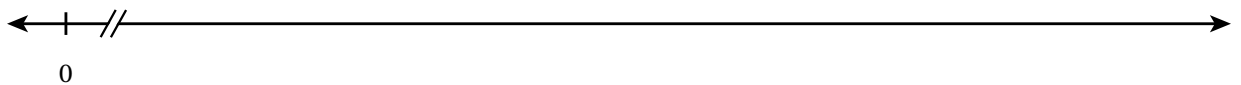
Date \_\_\_\_\_

1. Adesh gathers maple tree seeds for a science project. He measures the length of each seed to the nearest eighth inch. Adesh records the data in a table.

**Lengths of Maple Tree Seeds  
(inches)**

$2\frac{1}{8}$	$1\frac{3}{4}$	$1\frac{7}{8}$	2
$1\frac{7}{8}$	$2\frac{3}{8}$	$1\frac{3}{4}$	$2\frac{1}{8}$
2	$2\frac{1}{4}$	$1\frac{7}{8}$	$1\frac{5}{8}$

- a. Create a line plot to represent Adesh's data.



- b. Explain how you determined the interval length for your line plot.
- c. What is the most frequent maple tree seed length?

- d. How many maple tree seeds are less than  $2\frac{1}{8}$  inches long?
- e. What is the total length of the maple tree seeds that are  $1\frac{3}{4}$  inches long?
- f. What is the difference between the lengths of the longest and the shortest maple tree seeds?
- g. Adesh says that most of the maple tree seeds are  $1\frac{3}{4}$  to  $2\frac{1}{8}$  inches long. Do you agree with Adesh? Why?
- h. Adesh's sister finds another maple tree seed. She measures the seed and finds that it is  $\frac{1}{2}$  inch longer than Adesh's shortest seed. What is the length of the maple tree seed Adesh's sister finds?