



Name \_\_\_\_\_

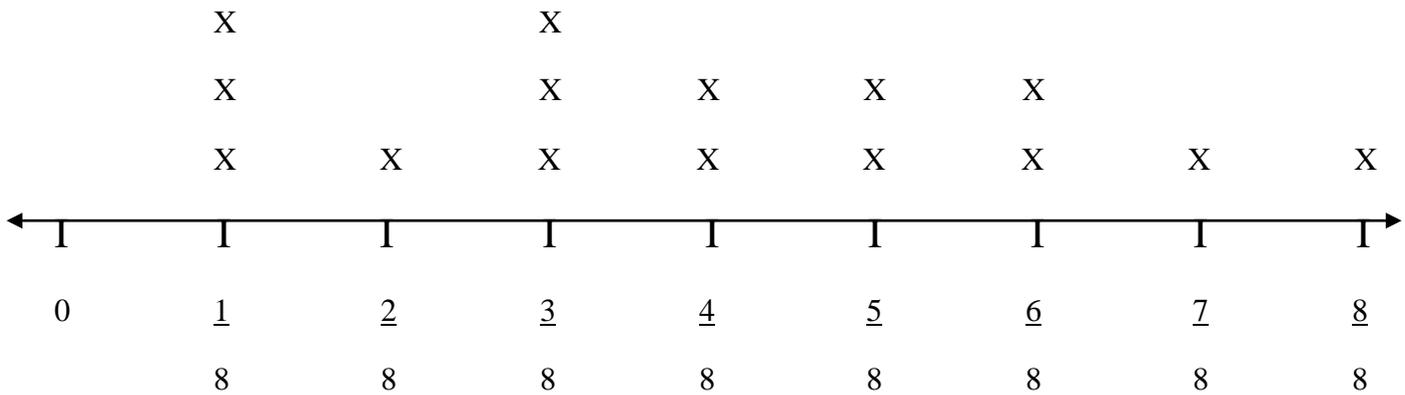
Date \_\_\_\_\_

Please visit [www.worksheetsandwalkthroughs.com](http://www.worksheetsandwalkthroughs.com) for more worksheets on this topic.

**Measurement and Data-Line Plots**  
*Word Problems*  
**(4. MD.4)**

**Directions:** Solve the following word problem using the line plot below.

You measured the ants in your bug collection to the nearest  $\frac{1}{8}$ ,  $\frac{1}{4}$ ,  $\frac{1}{2}$ , or whole inch. You decided to display the data on a line plot. How many ants are in your collection? How many measure  $\frac{1}{8}$ ,  $\frac{1}{4}$ ,  $\frac{1}{2}$  and 1 whole inch? If you were to add up all the lengths of the ants, what would the length be?



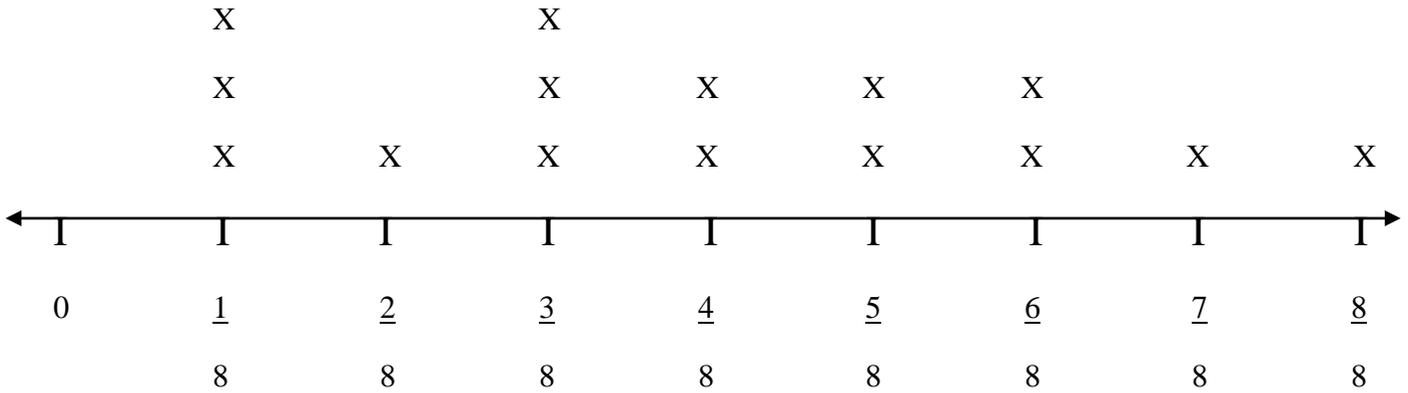
Answer: \_\_\_\_\_



Name \_\_\_\_\_

Date \_\_\_\_\_

### KEY



There are 3 ants that are 1/8 in.

There is one ant that is 1/4 (2/8) in.

There are 2 ants that are 1/2 (4/8) in.

There is 1 ant that measures 1 whole in.

There are 15 ants in your collection.

Add up all of the fractions to get the total length.

$$\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{2}{8} + \frac{3}{8} + \frac{3}{8} + \frac{3}{8} + \frac{4}{8} + \frac{4}{8} + \frac{5}{8} + \frac{5}{8} + \frac{6}{8} + \frac{6}{8} + \frac{7}{8} + \frac{8}{8} = \frac{59}{8} = 7 \frac{3}{8}$$

The total length is 7 3/8 in.