Name: _____

Line Plots to Display Fractional Data

Follow along with the video and take notes.

Make a line plot to display a data set of measurements in fractions of a unit ($\frac{1}{2}, \frac{1}{4}, \frac{1}{8}$). Draw all the number lines with the video.

Edgar and Maya collect insects together. Use the table they created to help them design their display of insects from smallest to largest.

Insect	Length
Beetle	$\frac{7}{8}$ inches
Butterfly	$1\frac{1}{4}$ inches
Caterpillar	$3\frac{3}{8}$ inches
Dragonfly	$1\frac{5}{8}$ inches
Grasshopper	$1\frac{7}{8}$ inches
Ladybug	$\frac{1}{8}$ inches
Locust	$2\frac{3}{4}$ inches
Praying Mantis	$3\frac{1}{2}$ inches

From a line plot, find and interpret the difference in length between the longest and shortest specimens in Edgar and Mays's insect collection.

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Practice

Now you try it!

Solve the questions below by making a line plot. Explain what the line plot tells you for 1 & 2.

1. If Edgar and Maya lose the Praying Mantis from their collection what insect is now the longest? Use a line plot to help.

2. Plot the following on a line plot. Sue has 5 paper clips that are $1\frac{1}{2}$ inches long, 4 pieces of lead that are $\frac{7}{8}$ inches long, she has 2 sticky notes that are $\frac{2}{4}$ inches long, 5 pens that are $3\frac{1}{2}$ inches long, 1 phone that is $3\frac{1}{2}$ inches long, 4 staples that are $\frac{1}{2}$ inch long, and 2 rubber bands that are $\frac{3}{4}$ inches long.

3. Which item of Sue's is the longest?

4. Which item is the shortest?

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