Line Plots: Fraction Measurements

Organizing and Analyzing Data

M4 L1

Important Terms

Line Plot & Data Set Frequency

Line Plots show data on a number line with an 'x' (or other mark) for every value in the data set (a collection of related values).

How frequently a value appears in the data.

Count the X_____ ... the value with the most X___ has the highest frequency.

Highest Value

The greatest value on the line plot with

Lowest Value

The lowest value on the line plot with

Difference

lowest value from the highest value.

Total

The total of ALL values in the whole data set.

Add the **value** of EVERY on the line plot.

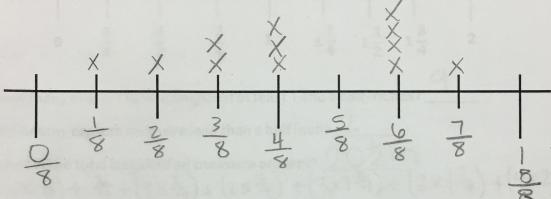
Line Plots: Fraction Measurements

Organizing and Analyzing Data

shows data on a number line with an 'x' (or other mark) to of the values represented.

ORGANIZE DATA

- 1. Create a line plot for the following data measured in $\frac{1}{2}$ inches.
 - * notice: none of the values are greater than



- 2. Label the line plot from $\frac{0}{8}$ to $\frac{8}{8}$.
- 3. Place one "X" above the line plot to represent each of the following values:

 $\frac{7}{8}, \frac{4}{8}, \frac{1}{4}, \frac{1}{2}, \frac{3}{8}, \frac{3}{8}, \frac{4}{4}, \frac{1}{8}, \frac{6}{8}, \frac{6}{8}, \frac{3}{4}$

4. Analyze the completed Line Plot. What are some of things you notice?

Lowest Value:

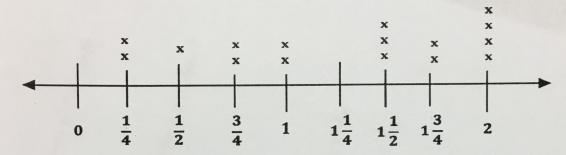
s: 0 2 1+(4x8)+3 Difference: 8

Line Plots: Fraction Measurements

Organizing and Analyzing Data

ANALYZE DATA

The following line plot represents the lengths of students' erasers as measured by a classmate. Analyze the plot answer the questions that follow.



- 1. How many erasers have a length of at least 1 and a half inches?
- 2. How many erasers measure less than a half inch? 2
- 3. What is the total length of all measure erasers? 2020 (2×4)+4+(2x4)+(2x4)+(3x14)+(2x14)+(4x2)

- 4. What is the difference between the shortest and longest erasers?
- 5. Which measurement appears most frequently? LW
- 6. How many 1/4 inch erasers would it take to equal the length of a 2-inch eraser?