



## Line Plots with Fractions

### Today's Standard

4.MD.B4 - Make a line plot to display a data set of measurements in fractions of a unit ( $\frac{1}{2}$ ,  $\frac{1}{4}$ ,  $\frac{1}{8}$ ). Solve problems involving addition and subtraction of fractions by using information presented in line plots. For example, from a line plot find and interpret the difference in length between the longest and shortest specimens in an insect collection.

### Real-World Applications for this Standard

Measuring and comparing heights of plants in a garden; Tracking and analyzing rainfall amounts over a month; Recording and interpreting lengths of different insects; Comparing the weights of different fruits; Analyzing time taken by students to complete a task

### Today I Learned

Today, we learned how to use line plots to show data with fractions. We also practiced adding and subtracting fractions using the information from the line plots.

### Common Stumbling Blocks

Sometimes, kids think that data points must be whole numbers. But, they can be fractions too! Another tricky part is adding and subtracting fractions. We need to find a common denominator first.

### Quiz Me

- What is a line plot?
- Can data points be fractions?
- How do you add fractions?
- What do you need to find before subtracting fractions?
- Why do we use line plots?

### Help Me

A line plot is a way to show data on a number line. We can use it to compare things like the lengths of different objects. For example, if you measure the length of different pencils, you can show those lengths on a line plot, even if some lengths are fractions like  $\frac{1}{2}$  or  $\frac{1}{4}$ .

