Line Plots and Fractional Measurements

Today's Standard

5.MD.B2 - Make a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8). Use operations on fractions for this grade to solve problems involving information presented in line plots. For example, given different measurements of liquid in identical beakers, find the amount of liquid each beaker would contain if the total amount in all the beakers were redistributed equally.

Real-World Applications for this Standard

Redistributing liquid measurements in beakers; Analyzing survey data with fractional responses; Comparing lengths of objects measured in fractions; Solving recipes with fractional ingredient amounts

Today I Learned

Today, we learned how to make line plots that show data in fractions like 1/2, 1/4, and 1/8. We also practiced using fractions to solve problems.

Common Stumbling Blocks

Kids might think they can add fractions without making the bottoms the same. They might also think line plots are only for whole numbers. Both are mistakes.

Quiz Me

- What is a line plot?

- Can a line plot show fractions?

- What do you need to do before adding fractions?

- What is a common denominator?

- Why do we use line plots?

Help Me

A line plot can help us see data clearly. For example, if we measured liquid in cups and had fractions like 1/2 or 1/4, a line plot would show us how much each cup has and help us share it equally.