

MP3c-Represent And Interpret Data Copied from: 5th Grade, Copied on: 03/01/24

Content Area: **Math**
Course(s): **Math 5**
Time Period: **Marking Period 3**
Length: **MP3 Topic 10 10-1 to 10-4**
Status: **Published**

Essential Questions

- How can line plots be used to represent data and answer questions?

Big Ideas

- **Make and Interpret Line Plots:** Students will learn how to read line plots and interpret the data. This will lay the foundation for the topic including representing data in a line plot.
- **Use Data Represented in a Line Plot to Solve Problems:** Students will use what they learn about making and interpreting line plots to solve problems. Students will also use what they have learned about fractions and line plots to critique the reasoning of others.
- **Use Operations with Fractions in Data Problems:** Students will use prior knowledge of adding and subtracting fractions, as well as multiplying and dividing fractions. Students solve problems involving line plots that require using operations with fractions and mixed numbers.

Enduring Understandings

Measurement and Data

5.MD.B.2 [M] Make a line plot to display a data set of measurements in fractions of a unit ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$). Use operations on fractions for this grade to solve problems involving information presented in line plots.

Number and Operations—Fractions

5.NF.A.2 Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers.

5.NF.B.6 Solve real world problems involving multiplication of fractions and mixed numbers, e.g., by using visual fraction models or equations to represent the problems.

Mathematical Practices Focus

3. Construct viable arguments and critique the reasoning of others.