

# MP3b-Understand Addition And Subtraction Of Fractions

Content Area: **Mathematics**  
Course(s): **Math 4 Resource Room**  
Time Period: **Marking Period 3**  
Length: **MP3 Topic 9 9-1 to 9-11**  
Status: **Published**

## Essential Questions

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- How do you add and subtract fractions and mixed numbers with like denominators?
- How can fractions be added and subtracted on a number line?

## Big Ideas

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- **Fractions and Mixed Numbers:** Students come to understand fraction addition and subtraction with like denominators.
- **Fraction Addition:** Students add fractions with like denominators.
- **Word Problems Involving Fractions:** Students apply their knowledge of fraction addition and subtraction to solve problems with like denominators.

## CSDT Technology Integration

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8.1.5.A.1 Select and use the appropriate digital tools and resources to accomplish a variety of tasks including solving problems.

Activity:

Students will work independently in the IXL program to answer questions about adding and subtracting fractions. The specific skills in IXL related to this standard are Q1 - Q14. The program will track student progress on these skills.

## Enduring Understandings

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### Number and Operations—Fractions

4.NF.B.3 [M] Understand a fraction  $a/b$  with  $a > 1$  as a sum of fractions  $1/b$ .

4.NF.B.3a [M] Understand addition and subtraction of fractions as joining and separating parts referring to the same whole.

4.NF.B.3b [M] Decompose a fraction into a sum of fractions with the same denominator in more than one way, recording each decomposition by an equation. Justify decompositions, e.g., by using a visual fraction model.

4.NF.B.3c [M] Add and subtract mixed numbers with like denominators, e.g., by replacing each mixed number with an equivalent fraction, and/or by using properties of operations and the relationship between addition and subtraction.

4.NF.B.3d [M] Solve word problems involving addition and subtraction of fractions referring to the same whole and having like denominators, e.g., by using visual fraction models and equations to represent the problem.

## **Mathematical Practices Focus**

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4. Model with mathematics.