# MP3b-Understand Addition And Subtraction Of Fractions 

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

## Essential Questions

- 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

- 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.


## Technology Integration

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

## Number and Operations-Fractions

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

4. Model with mathematics.
