Lesson 1: Sumemos, restemos y multipliquemos fracciones

Standards Alignments

Addressing   4.NF.B.3, 4.NF.B.4, 4.NF.C.5

Teacher-facing Learning Goals

- Solve problems involving addition and subtraction of fractions.
- Solve problems involving multiplication of a fraction by a whole number.

Student-facing Learning Goals

- Practiquemos cómo resolver problemas en los que hay fracciones.

Lesson Purpose

The purpose of this lesson is for students to represent and solve problems involving fraction operations. Students also reason about equivalence to compare fractions to whole numbers.

In this lesson, students practice multiplying a fraction and a whole number and adding and subtracting fractions, including mixed numbers. They rely on their understanding of equivalence and the properties of operations to decompose fractions, whole numbers, and mixed numbers to enable comparison, addition, subtraction, and multiplication (MP7).

If students need additional support with the concepts in this lesson, refer back to Unit 3, Section B in the curriculum materials.

Access for:

♿ Students with Disabilities

- Representation (Activity 2)

🌐 English Learners

- MLR8 (Activity 1)

Instructional Routines

Number Talk (Warm-up)

Lesson Timeline

Warm-up	10 min

Teacher Reflection Question

What evidence from today's lesson indicates students are thinking flexibly as they add,

Activity 1	15 min
Activity 2	10 min
Activity 3	10 min
Lesson Synthesis	10 min
Cool-down	5 min

subtract, and multiply fractions?

Cool-down (to be completed at the end of the lesson) 🕐 5 min

Compara con 2

Standards Alignments

Addressing   4.NF.B.3

Student-facing Task Statement

Estas son algunas fracciones: $\frac{15}{10}$ $\frac{13}{10}$ $\frac{53}{100}$ $\frac{9}{10}$

1. Escoge dos fracciones que tengan una suma mayor que 2. Explica o muestra cómo razonaste.

2. Usa las cuatro fracciones para escribir una expresión que tenga un valor mayor que 1 pero menor que 2.

Student Responses

1. Sample response:
   a. $\frac{13}{10} + \frac{9}{10} = \frac{22}{10} = \frac{10}{10} + \frac{10}{10} + \frac{2}{10} = 2\frac{2}{10}$
   b. I know $\frac{15}{10}$ is the same as $1\frac{1}{2}$. All the other choices are more than $\frac{1}{2}$, so I could pick $\frac{15}{10}$ and any of the others.
   c. $\frac{15}{10} + \frac{53}{100} = \frac{203}{100} = \frac{100}{100} + \frac{100}{100} + \frac{3}{100} = 2\frac{3}{100}$
2. $\frac{15}{10} + \frac{53}{100} - \frac{9}{10} + \frac{13}{10}$ or $\frac{15}{10} + \frac{9}{10} - \frac{53}{100} - \frac{13}{100}$