

Lesson 12: Resolvamos problemas

Standards Alignments

Addressing 5.NF.A.1, 5.NF.A.2

Teacher-facing Learning Goals

- Solve problems involving addition and subtraction of fractions with unlike denominators.

Student-facing Learning Goals

- Resolvamos más problemas sumando y restando fracciones que tienen denominadores diferentes.

Lesson Purpose

The purpose of this lesson is for students to solve problems that involve adding and subtracting fractions with unlike denominators.

In this lesson, students apply their understanding of fraction addition and subtraction to solve multi-step problems. They work with fractions and mixed numbers and make estimates as well as finding the value of sums and differences. Students find the sums and differences in a way that makes sense to them. They will choose common denominators and can also use techniques they have seen in earlier lessons such as adding on to make a whole number.

Access for:

Students with Disabilities

- Representation (Activity 2)

English Learners

- MLR6 (Activity 1)

Instructional Routines

Estimation Exploration (Warm-up)

Lesson Timeline

Warm-up	10 min
Activity 1	20 min
Activity 2	15 min
Lesson Synthesis	10 min

Teacher Reflection Question

What strategies did most students use to add and subtract fractions today? What strategies did you anticipate? Which did you not anticipate?

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

🕒 5 min

Evalúa expresiones

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Student-facing Task Statement

1. Priya caminó $1\frac{2}{3}$ millas. Diego caminó $\frac{1}{2}$ milla. ¿Cuánta distancia más caminó Priya que Diego? Explica o muestra cómo razonaste.
2. El lunes, Andre caminó $\frac{3}{4}$ de milla por la mañana y $1\frac{1}{3}$ millas por la tarde. ¿Cuánta distancia caminó Andre el lunes? Explica o muestra cómo razonaste.

Student Responses

1. $1\frac{1}{6}$ miles or equivalent. $1\frac{2}{3} - \frac{1}{2} = \frac{5}{3} - \frac{1}{2}, \frac{5}{3} - \frac{1}{2} = \frac{10}{6} - \frac{3}{6} = \frac{7}{6} = 1\frac{1}{6}$
2. $2\frac{1}{12}$ miles or equivalent. $\frac{3}{4} + 1\frac{1}{3} = \frac{9}{12} + \frac{16}{12} = \frac{25}{12} = 2\frac{1}{12}$