

Lesson 2: Representaciones de fracciones (parte 2)

Standards Alignments

Building On 3.NF.A.1
Building Towards 4.NF.A, 4.NF.A.1

Teacher-facing Learning Goals

- Make sense of the numerator and denominator of unit fractions that have denominators 2, 3, 4, 5, 6, 8, 10, and 12.
- Use diagrams to represent fractions.

Student-facing Learning Goals

- Nombremos otras fracciones y representémoslas con diagramas.

Lesson Purpose

The purpose of this lesson is for students to make sense of non-unit fractions (including those greater than 1) that have denominators 2, 3, 4, 5, 6, 8, 10, and 12.

In the previous lesson, students made sense of the meaning of numerator and denominator in unit fractions. They identified fractions represented by diagrams, and partitioned diagrams to represent given fractions. In this lesson, they reason in similar ways—using numerical and visual representations—about non-unit fractions and fractions that are greater than 1.

Students are reminded of what they learned in grade 3: that a non-unit fraction $\frac{a}{b}$ can be understood as a parts of a unit fraction $\frac{1}{b}$, and that fractions with different numerators and denominators can be equivalent. Unlike in grade 3, the denominators they see here now include 5, 10, and 12.

As in the previous lesson, rulers can be provided to help students draw, extend, or align partition lines, but should not be used to measure the location of a fraction on any diagram.

Access for:

Students with Disabilities

- Representation (Activity 1)

English Learners

- MLR2 (Activity 2)

Instructional Routines

Which One Doesn't Belong? (Warm-up)

Materials to Gather

- Materials from a previous lesson: Activity 2
- Straightedges: Activity 1, Activity 2

Lesson Timeline

Warm-up	10 min
Activity 1	20 min
Activity 2	15 min
Lesson Synthesis	10 min
Cool-down	5 min

Teacher Reflection Question

Who participated in math class today? What assumptions are you making about those who did not participate? How can you leverage each of your students' ideas to support them in being seen and heard in tomorrow's math class?

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

🕒 5 min

¿Qué muestran los diagramas?

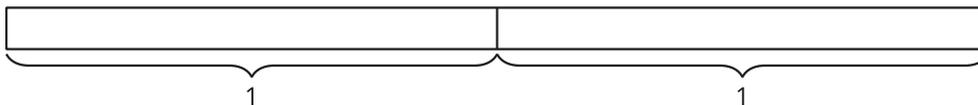
Standards Alignments

Building Towards 4.NF.A

Student-facing Task Statement

Usa un diagrama en blanco para hacer una representación de cada fracción. Ambos diagramas en blanco representan la misma cantidad.

1. $\frac{5}{8}$



2. $\frac{9}{8}$



Student Responses

Sample response:

1. $\frac{5}{8}$



2. $\frac{9}{8}$

Diagram.