

# Lesson 18: Representemos situaciones con la multiplicación y la división

## Standards Alignments

Addressing 5.NF.B, 5.NF.B.4, 5.NF.B.6, 5.NF.B.7

## Teacher-facing Learning Goals

- Represent situations involving fractions with both multiplication and division equations.

## Student-facing Learning Goals

- Representemos problemas con ecuaciones de multiplicación y de división.

## Lesson Purpose

The purpose of this lesson is for students to apply their understanding of fraction multiplication and division to solve problems in context.

In previous lessons, students multiplied fractions and divided whole numbers and unit fractions. They represented situations by drawing diagrams, writing expressions and equations, and they solved problems using numerical methods.

In this lesson, students continue to solve problems in context with a goal of understanding how to solve them using either multiplication or division. Students create and interpret diagrams, and explain how the same diagram can be interpreted as representing multiplication or division.

## Access for:

### Students with Disabilities

- Engagement (Activity 2)

### English Learners

- MLR1 (Activity 1)

## Instructional Routines

Number Talk (Warm-up)

## Lesson Timeline

Warm-up	10 min
Activity 1	15 min

## Teacher Reflection Question

Identify ways the math community you are working to foster is going well. What aspects would you like to work on? What actions can you take to improve those areas?

Activity 2 20 min

Lesson Synthesis 10 min

Cool-down 5 min

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

 5 min

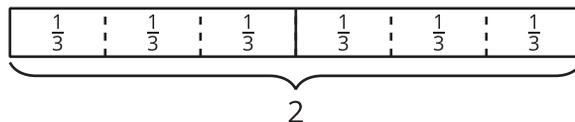
Diagramas y ecuaciones

### Standards Alignments

Addressing 5.NF.B

### Student-facing Task Statement

1.



- Escribe una ecuación de multiplicación que esté representada por el diagrama. Explica o muestra cómo razonaste.
- Escribe una ecuación de división que esté representada por el diagrama. Explica o muestra cómo razonaste.

### Student Responses

- $6 \times \frac{1}{3} = 2$ , the diagram shows 6 groups of  $\frac{1}{3}$  and the total value is 2.
  - $2 \div \frac{1}{3} = 6$ , the diagram shows that there are 6 groups of  $\frac{1}{3}$  in 2.