

Lesson 7: Dividamos para multiplicar fracciones unitarias

Standards Alignments

Addressing 5.NF.B.3, 5.NF.B.4.a
 Building Towards 5.NF.B.4

Teacher-facing Learning Goals

- Connect division to multiplication of a whole number by a unit fraction.

Student-facing Learning Goals

- Resolvamos problemas sobre multiplicación de números enteros por fracciones unitarias.

Lesson Purpose

The purpose of this lesson is for students to solve problems involving multiplication of whole numbers by unit fractions and represent the problems with equations and diagrams.

In this lesson students interpret situations and solve problems that involve products of a whole number and a fraction. Students solve story problems in a way that makes sense to them and match stories with diagrams and expressions. They work with expressions and flexibly interpret a diagram to extend their understanding of the relationship between fractions and multiplication and division. For example, consider this image:



It shows $4 \div 3$ because there are 4 whole squares divided into 3 equal parts with 1 of those parts shaded. It also shows $\frac{4}{3}$ as there are 4 pieces shaded and each is $\frac{1}{3}$ of a unit rectangle. It shows the multiplication expression $4 \times \frac{1}{3}$ because there are 4 groups of $\frac{1}{3}$ shaded. It shows the multiplication expression $\frac{1}{3} \times 4$ since there is a total of 4, and $\frac{1}{3}$ of that is shaded.

Access for:

Students with Disabilities

- Engagement (Activity 2)

English Learners

- MLR8 (Activity 2)

Instructional Routines

Estimation Exploration (Warm-up), MLR7 Compare and Connect (Activity 1)

Materials to Copy

- Match the Situation (groups of 2): 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

Which student responses did you anticipate from today's lesson? Which student responses surprised you in today's lesson?

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

 5 min

Otra carrera

Standards Alignments

Addressing 5.NF.B.4.a

Student-facing Task Statement

6 niños corren juntos una carrera de relevos de 5 millas. Todos corren la misma distancia.

Selecciona **todas** las expresiones que representan esta situación.

- A. $\frac{1}{6} \times 5$
- B. $\frac{1}{5} \times 6$
- C. $5 \div 6$
- D. $\frac{5}{6}$

Student Responses

A, C, D