# Lesson 11: Usemos factores para encontrar fracciones equivalentes

### Standards Alignments

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| --- | --- |
| Addressing | 4.NF.A.1 |

### Teacher-facing Learning Goals

* Generate equivalent fractions by using factors of the numerator and denominator.
* Reason about fraction equivalence numerically, by using multiples or factors of the numerator and denominator.

### Student-facing Learning Goals

* Trabajemos con numeradores y denominadores para encontrar fracciones equivalentes.

### Lesson Purpose

The purpose of this lesson is for students to generate equivalent fractions numerically, by using factors and multiples of the numerator and denominator.

In earlier lessons, students saw that one way to generate equivalent fractions is by grouping unit fractions on a number line into larger units. For instance, 12 twelfths could be put in groups of 3 to make 4 equal parts, each part being a fourth. Or they could be put into groups of 2 to make 6 equal parts, each part being a sixth, which means that . Some students may have related these observations to the fact that and . These insights are formalized and generalized in this lesson.

Students have also generated equivalent fractions and verified equivalence by multiplying the numerator and denominator by the same number. In this lesson, they find equivalent fractions by dividing and by a factor that is common to both numbers.

This lesson has a Student Section Summary.

### Access for:

### Students with Disabilities

* Engagement (Activity 2)

### English Learners

* MLR8 (Activity 1)

### Instructional Routines

Card Sort (Activity 3), Which One Doesn’t Belong? (Warm-up)

### Materials to Copy

* Fractions Galore (groups of 3): Activity 3

### Lesson Timeline

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| --- | --- |
| Warm-up | 10 min |
| Activity 1 | 20 min |
| Activity 2 | 15 min |
| Activity 3 | 15 min |
| Lesson Synthesis | 10 min |
| Cool-down | 5 min |

### Teacher Reflection Question

What evidence did you see of students choosing a method strategically as they generated equivalent fractions? For students who chose a fixed way regardless of the given fractions, what questions could you ask them to prompt them to be more strategic?

## Cool-down

(to be completed at the end of the lesson) 5min

Encuentra tres o más

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### Student-facing Task Statement

Escribe al menos 3 fracciones que sean equivalentes a . Explica o muestra tu razonamiento.

### Student Responses

Sample responses: , , ,

, , ,