

Lesson 11: Lados de longitudes fraccionarias y mayores que 1

Standards Alignments

Addressing 5.NF.B.3, 5.NF.B.4.b

Teacher-facing Learning Goals

- Find the area of a rectangle with one fractional side length greater than 1 in a way that makes sense to them.
- Represent the area of a rectangle with a multiplication expression.

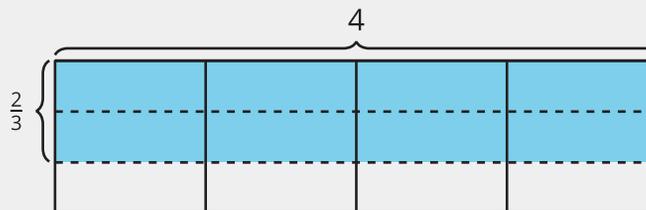
Student-facing Learning Goals

- Encontramos el área de más rectángulos.

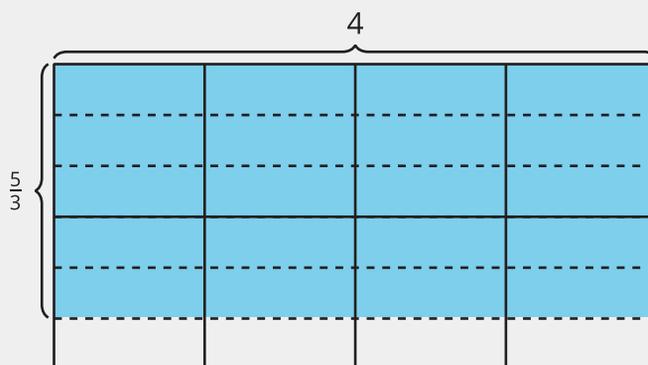
Lesson Purpose

The purpose of this lesson is for students to find the area of a rectangle where one of the side lengths is a fraction greater than 1.

In previous lessons, students multiplied fractions by whole numbers and found the area of rectangles with one fractional side length when the fraction was less than 1. They used visual representations to support their reasoning. For example, students use this picture to explain why $\frac{2}{3} \times 4 = (2 \times 4) \times \frac{1}{3}$.



In this lesson, students apply these strategies to find the area of a rectangle with a fractional side length greater than 1.



Using an area diagram like this, the same reasoning shows that $\frac{5}{3} \times 4 = (5 \times 4) \times \frac{1}{3}$.

Access for:

Students with Disabilities

- Engagement (Activity 2)

English Learners

- MLR8 (Activity 1)

Instructional Routines

5 Practices (Activity 1), True or False (Warm-up)

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

- Why is it important for students to be able to write and interpret different expressions to represent and find the area of rectangles with fractional side lengths?

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

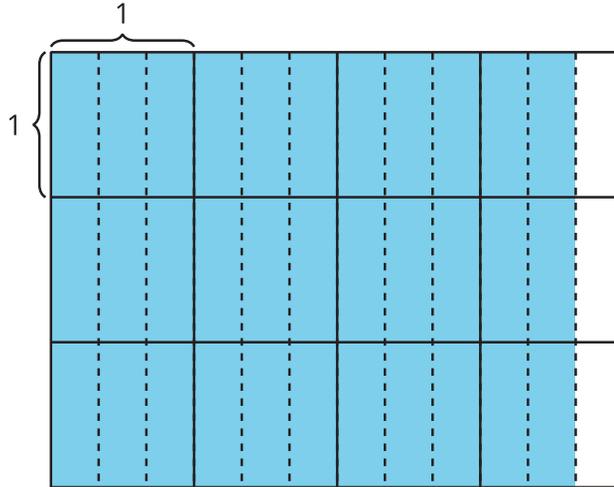
 5 min

Encuentra el área

Standards Alignments

Addressing 5.NF.B.4.b

Student-facing Task Statement



1. Escribe una expresión de multiplicación que represente el área de la región sombreada.
2. ¿Cuál es el área de la región sombreada?

Student Responses

1. $3 \times \frac{11}{3}$ or $\frac{11}{3} \times 3$ or $\frac{11 \times 3}{3}$ or $\frac{3 \times 11}{3}$
2. 11 square units or equivalent