

Lesson 12: Decompose Area

Standards Alignments

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

Teacher-facing Learning Goals

- Decompose a rectangle to find its area.

Student-facing Learning Goals

- Let's decompose rectangles to find their area.

Lesson Purpose

The purpose of this lesson is for students to apply what they know about multiplication of whole numbers and fractions to decompose a rectangle to find its area.

In previous lessons, students found the area of rectangles with one whole number side length and one fractional side length.

The purpose of this lesson is for students to apply what they know about decomposing rectangles with whole number side lengths to represent and find the area of rectangles with a mixed number side length. Students first find the area in a way that makes sense to them and then analyze different strategies for finding area.

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	20 min
Activity 2	15 min
Lesson Synthesis	10 min

Teacher Reflection Question

What question do you wish you had asked today? When and why should you have asked it?

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

🕒 5 min

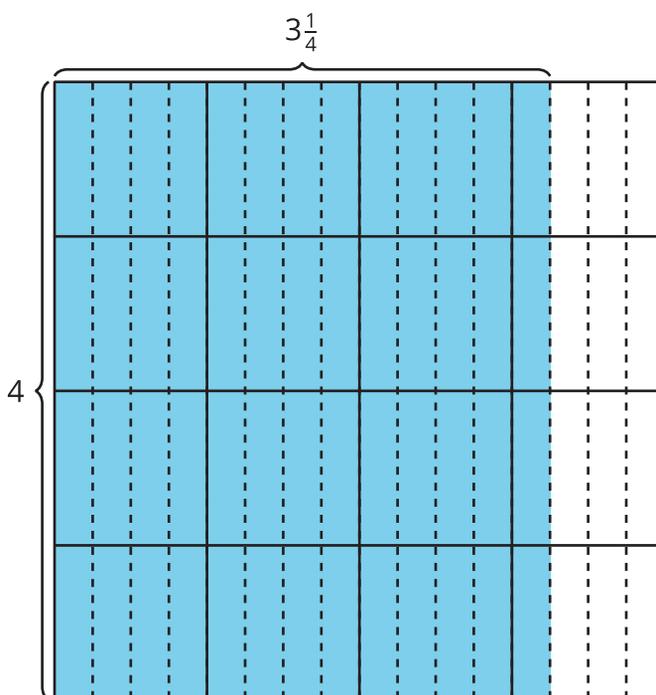
Decompose Rectangles

Standards Alignments

Addressing 5.NF.B.4.b

Student-facing Task Statement

Find the area of the shaded region.

**Student Responses**

Sample responses:

- $4 \times 3\frac{1}{4}$ square units
- 13 square units