

# Lesson 5: Representemos productos como áreas

## Standards Alignments

Addressing 3.MD.C.7.b, 3.OA.B.5

### Teacher-facing Learning Goals

- Relate multiplication to finding the area of rectangles.

### Student-facing Learning Goals

- Conectemos expresiones de multiplicación con el área.

## Lesson Purpose

The purpose of this lesson is for students to connect multiplication expressions to rectangular areas.

In previous lessons, students counted unit squares to find the area of rectangles. In this lesson they explicitly connect multiplication to rectangular areas. Students match multiplication expressions to rectangular areas, specifically relating the factors of the expressions to the rows and columns of squares in the rectangle. Then, students are given multiplication expressions and create matching rectangles with inch tiles and drawings on grids.

### Access for:

#### Students with Disabilities

- Engagement (Activity 2)

## Instructional Routines

How Many Do You See? (Warm-up)

### Materials to Gather

- Inch tiles: Activity 2

### Materials to Copy

- Match Expressions and Areas (groups of 30): Activity 1

## Lesson Timeline

Warm-up	10 min
Activity 1	15 min
Activity 2	20 min

## Teacher Reflection Question

In previous lessons students worked with arrays as a way to represent multiplication. How did students' previous work with arrays support them in representing products as rectangular areas?

Lesson Synthesis

10 min

Cool-down

5 min

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

🕒 5 min

Crea un área rectangular

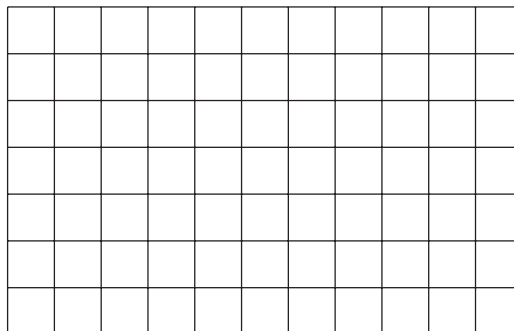
**Standards Alignments**

Addressing 3.MD.C.7.b

**Student-facing Task Statement**

Usa la cuadrícula para crear un área rectangular que represente la expresión  $7 \times 4$ .

Explica tu razonamiento.

**Student Responses**

Sample response: There are 4 rows and each row has 7 squares, so it's 4 groups of 7.

