Fractional Area of Rectangles

Today's Standard

5.NF.B4b - Find the area of a rectangle with fractional side lengths by tiling it with unit squares of the appropriate unit fraction side lengths, and show that the area is the same as would be found by multiplying the side lengths. Multiply fractional side lengths to find areas of rectangles, and represent fraction products as rectangular areas.

Real-World Applications for this Standard

Designing a garden with fractional dimensions; Creating a floor plan with fractional measurements; Baking recipes that require fractional pan sizes; Painting a wall with fractional dimensions; Building a model with fractional components

Today I Learned

Today, we learned how to find the area of rectangles with fractional sides by multiplying the sides. This helps us understand how to measure spaces in real life.

Common Stumbling Blocks

Some students might think that you can't use multiplication for fractional sides, but you can. Others might add the sides instead of multiplying them. Both are mistakes.

Quiz Me

- What do you multiply to find the area of a rectangle?
- Can you find the area of a rectangle with sides that are fractions?
- What happens if you add the sides instead of multiplying them?
- Why is it important to know how to find the area?
- Can you show me how to find the area of a rectangle with sides that are fractions?

Help Me

Finding the area of rectangles with fractional sides helps us measure real-life spaces, like rooms or gardens, accurately. You multiply the sides, even if they are fractions, to get the area.