



# Decompose Area

Let's decompose rectangles to find their area.

## Warm-up

### Number Talk: Partial Products

Find the value of each expression mentally.

- $3 \times 20$

- $3 \times 24$

- $5 \times 2$

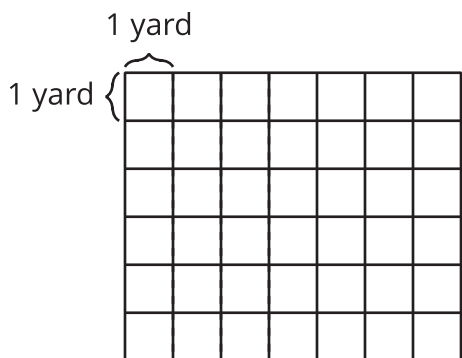
- $5 \times 2\frac{1}{2}$



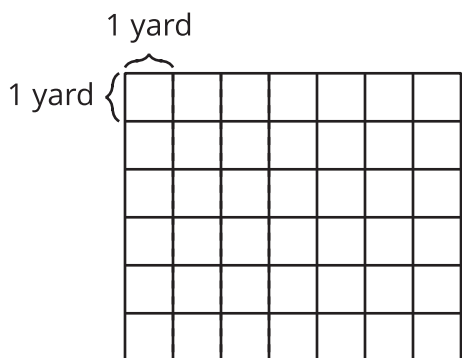
## Activity 1

### Which Garden Is Larger?

1. Noah's rectangular garden is 5 yards by  $6\frac{1}{4}$  yards. Draw a diagram of Noah's garden on the grid.



2. Priya's rectangular garden is 6 yards by  $5\frac{1}{4}$  yards. Draw a diagram of Priya's garden on the grid.



3. Whose garden covers a larger area? Explain your reasoning.

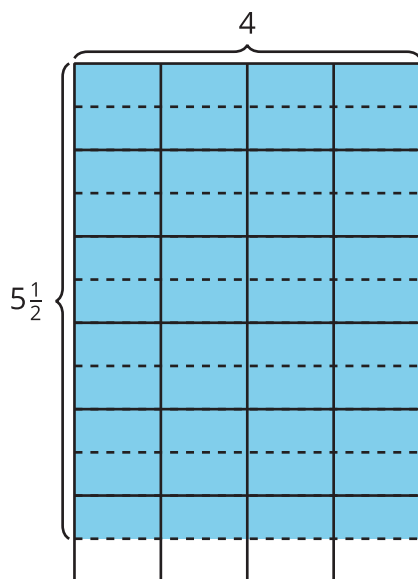
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## Activity 2

### Different Ways to Find the Area

Partner A

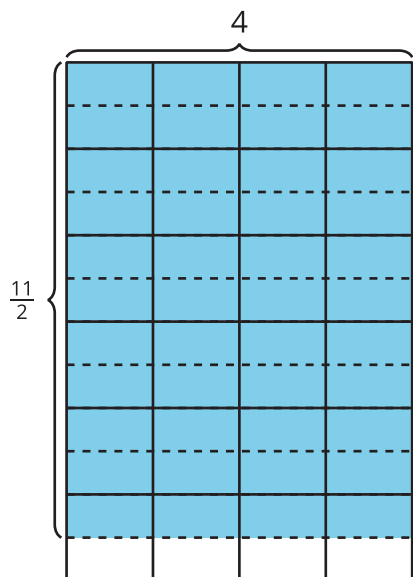


Jada:  $4 \times 5$

Priya:  $4 \times \frac{1}{2}$

Tyler:  $6 \times 4$

Partner B



Clare:  $\frac{10}{2} \times 4$

Diego:  $4 \times 6$

Elena:  $4 \times 11$

1. Each expression shows the first step a student uses to find the area of the shaded region. Explain how each student could finish their work to find the area. Show your thinking on the diagram.

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2. Share your response with your partner. How are your responses alike? How are they different?

