Decompose Area

Let's decompose rectangles to find their area.

Warm-up

Number Talk: Partial Products

Find the value of each expression mentally.

- 3×20

- 3×24

- 5×2
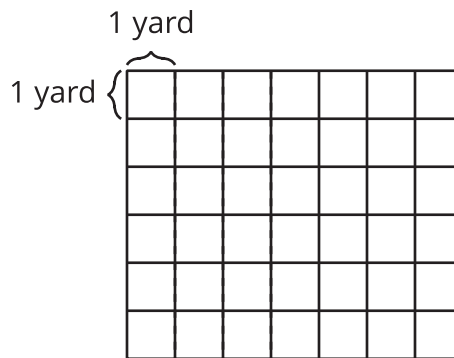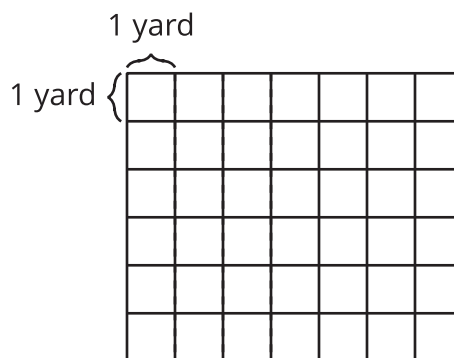
- $5 \times 2\frac{1}{2}$

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.

1 yard

1 yard $\{$

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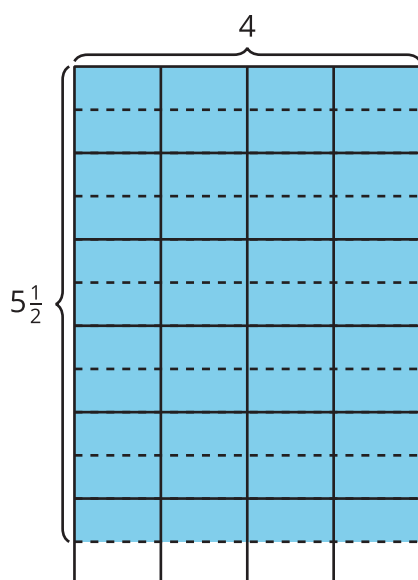
1 yard

1 yard $\{$

3. Whose garden covers a larger area? Explain your reasoning.
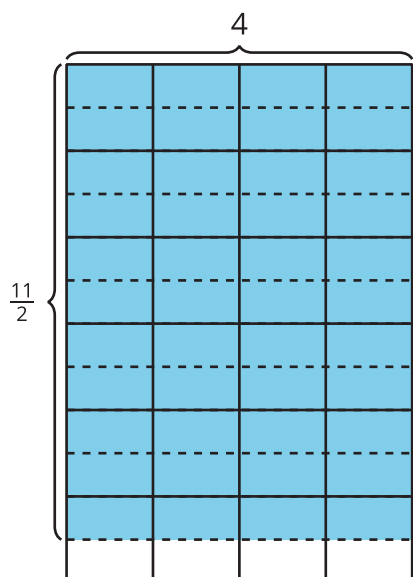
Different Ways to Find the Area

Partner A

Jada: 4×5

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

Tyler: 6×4

Partner B

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

Diego: 4×6

Elena: 4×11

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.

_____

_____

_____

_____

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