Unit 2, Lesson 12

Decompose Area

Let's decompose rectangles to find their area.

Warm-up

Number Talk: Partial Products

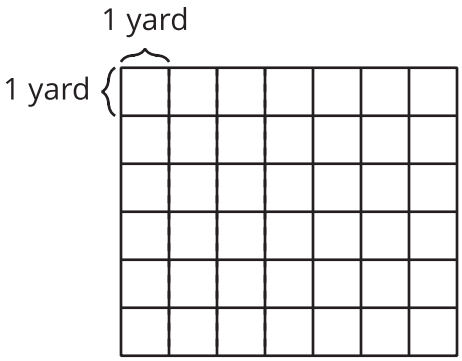
Find the value of each expression mentally.

- 3×20
- 3×24
- 5×2
- $5 \times 2\frac{1}{2}$

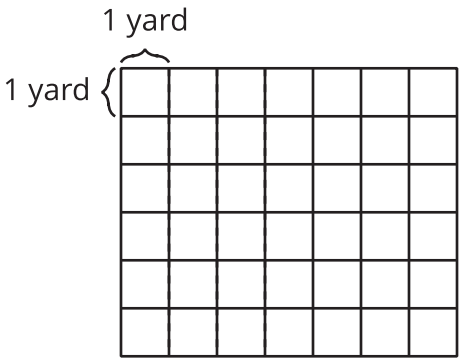
Activity 1

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.

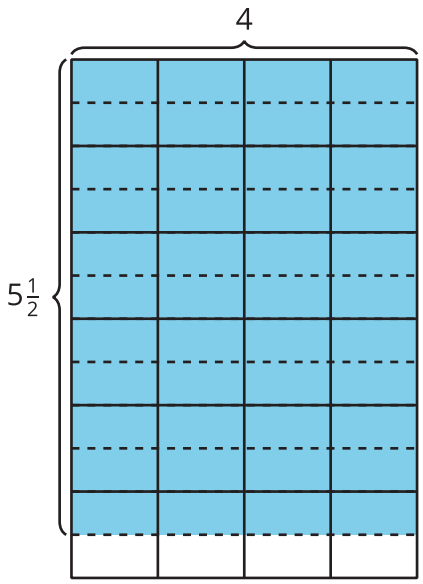


3. Whose garden covers a larger area? Explain your reasoning.

Activity 2

Different Ways to Find the Area

Partner A

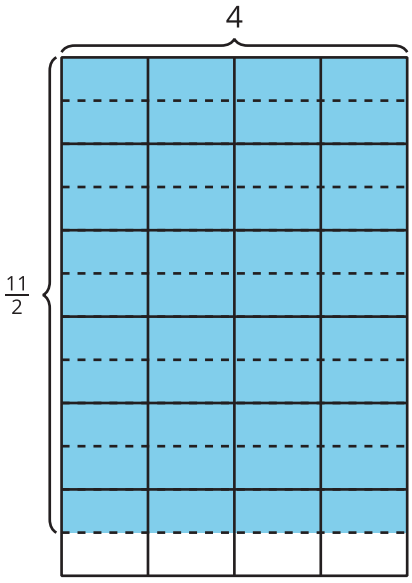


Jada: 4×5

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?