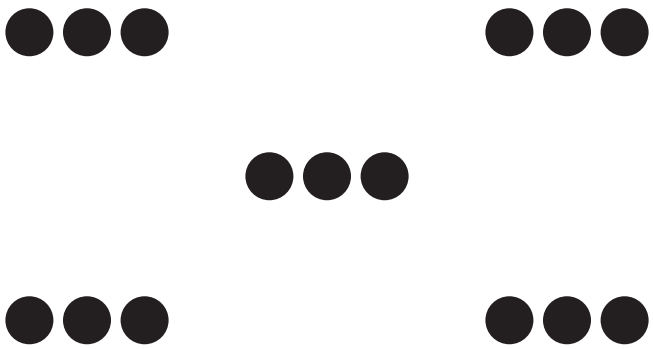
Represent Products as Areas

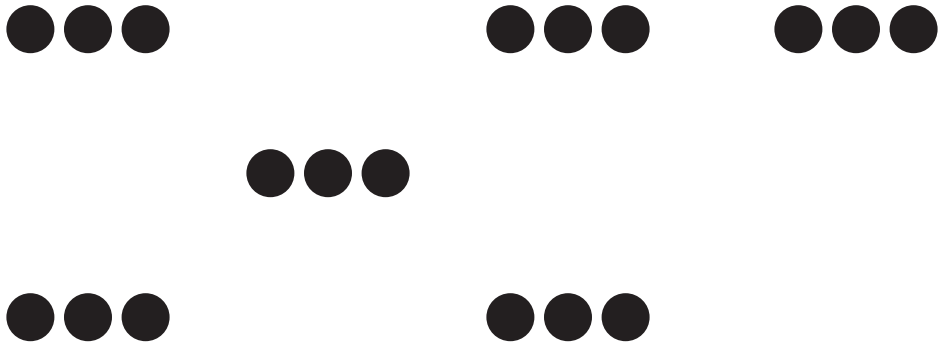
Let's connect multiplication expressions to areas.

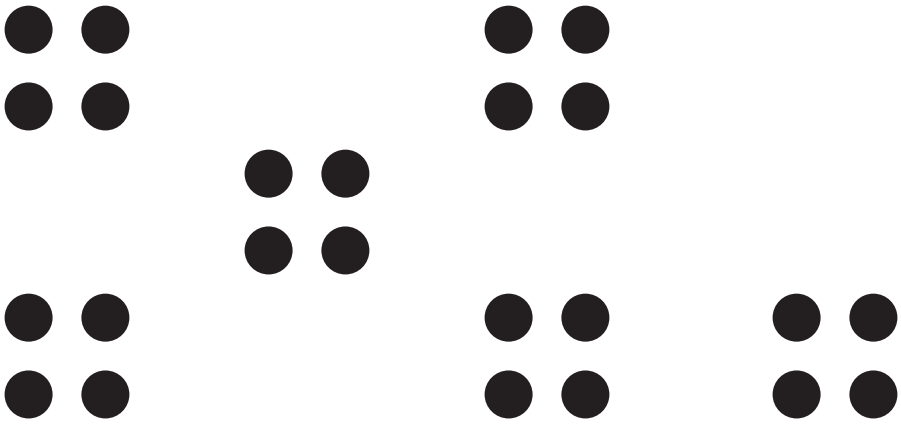
Warm-up

How Many Do You See: One More

How many do you see? How do you see them?







Activity 1

Match Expressions and Areas

Your teacher has posted images of rectangles around the room. Match each expression with a rectangle that can represent it. Be prepared to explain your reasoning.

1. 9×5

2. 8×2

3. 7×10

4. 3×3

5. 2×6

6. 8×4

7. 5×7

Activity 2

Create from Expressions

1. The numbers in each expression represent the number of rows (or columns) in a rectangle and how many squares are in each row (or column).

   On the grid, draw each rectangle, label it with the numbers, and find its area.

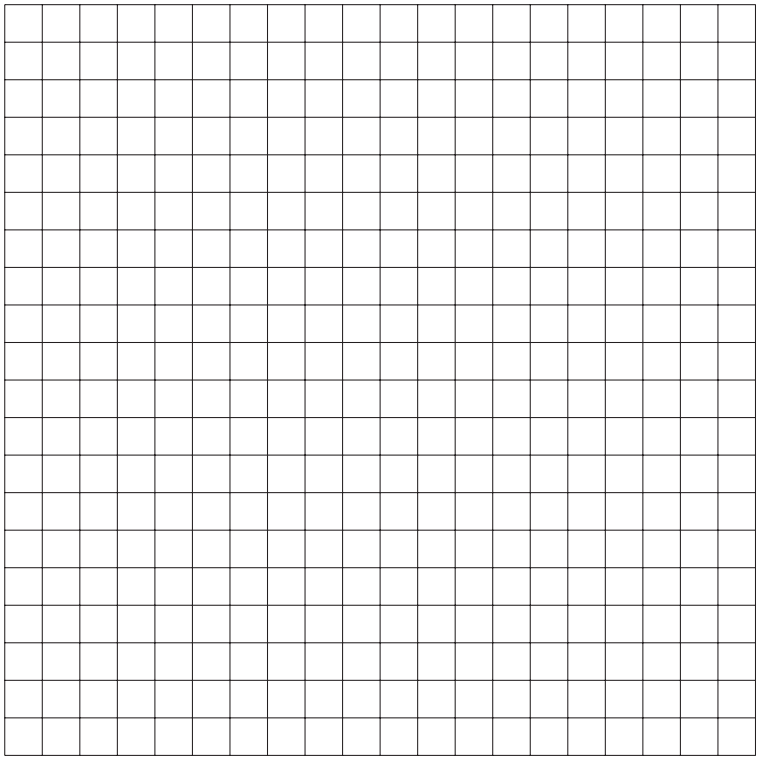
   a. 3×4

   b. 4×6

   c. 6×3

   d. 7×4

   e. 3×2



2. Explain why multiplying the numbers in each expression gives us the area of the rectangle.