## Lesson 5: Represent Products as Areas

* Let’s connect multiplication expressions to area.

### Warm-up: How Many Do You See: One More

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







### 5.1: 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. $5×7$

### 5.2: 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.
	1. $3×4$
	2. $4×6$
	3. $6×3$
	4. $7×4$
	5. $3×2$
* 
1. Explain why multiplying the numbers in each expression gives us the area of the rectangle.



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