

## Grade 3 Properties of Multiplication Lesson 4: Distributive Property of Multiplication PART I

**Rationale:** Today's lesson teaches students to use the Distributive property to solve a multiplication problem. \*\*Please teach this lesson before you teach the AREA UNIT.

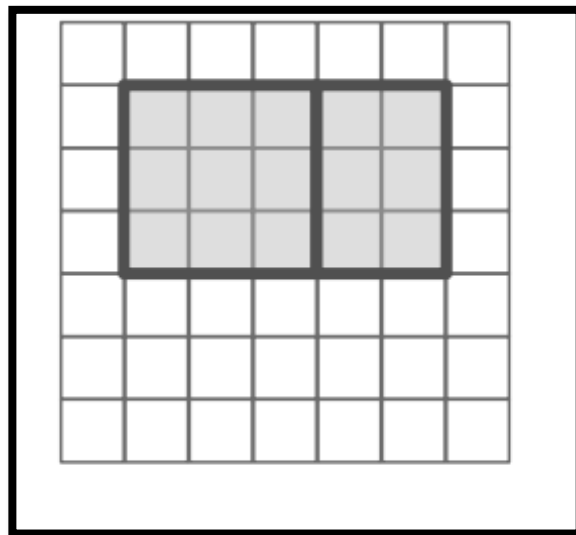
**Objective:** I can use the distributive property

**Vocabulary:** distributive property, multiplication, product

**Materials:** Dry erase boards, Copy of the Must Do worksheet

**Lesson:**

1. Project:



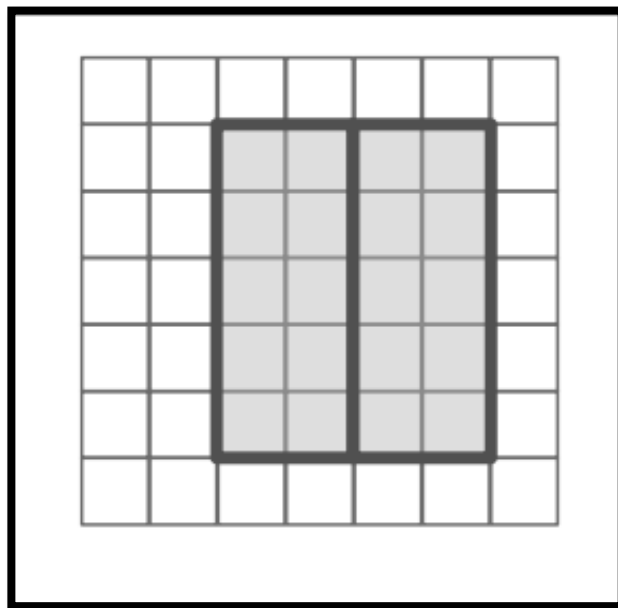
2. Ask Students, "What do you notice? What do you wonder?" Discuss that these are two rectangles, each have an area, and they are connected, not overlapping.

3. The area of the combined rectangles can be written as  $3 \times 3 = 9$  combined with  $3 \times 2 = 6$ .  $9 + 6 = 15$  square units.

We can also think of the whole rectangle first, and break it down:

$$\begin{aligned}
 & 3 \times \underline{5} \\
 & = 3 \times (3 + \underline{2}) \\
 & = (3 \times 3) + (3 \times \underline{\quad}) \\
 & = 9 + \underline{\quad} = \underline{\quad}
 \end{aligned}$$

4. Repeat with the following example and discuss:



$$\begin{aligned}
 & 5 \times \underline{4} \\
 & = 5 \times (2 + \underline{2}) \\
 & = (5 \times 2) + (5 \times \underline{\quad}) \\
 & = 10 + \underline{\quad} = \underline{\quad}
 \end{aligned}$$

8. Must Do