Unit 4 Lesson 9: The Distributive Property, Part 1

1 Number Talk: Ways to Multiply (Warm up)

Student Task Statement
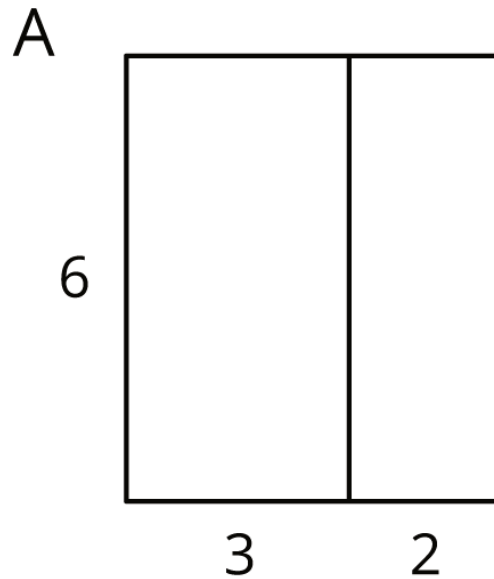
Find each product mentally.

$5 \cdot 102$

$5 \cdot 98$

$5 \cdot 999$

2 Ways to Represent Area of a Rectangle
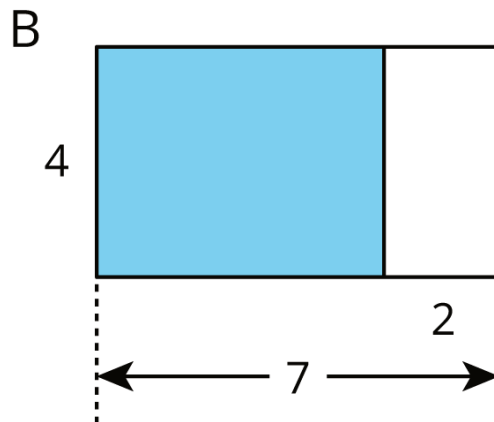
Student Task Statement

1. Select **all** the expressions that represent the area of the large, outer rectangle in figure A. Explain your reasoning.

   A

   - $6 + 3 + 2$
   - $6 \cdot 3 + 6 \cdot 2$
   - $6 \cdot 3 + 2$
   - $6 \cdot 5$
   - $6(3 + 2)$
   - $6 \cdot 3 \cdot 2$

   6

   3   2

2. Select **all** the expressions that represent the area of the shaded rectangle on the left side of figure B. Explain your reasoning.

   B

   - $4 \cdot 7 + 4 \cdot 2$
   - $4 \cdot 7 \cdot 2$
   - $4 \cdot 5$
   - $4 \cdot 7 - 4 \cdot 2$
   - $4(7 - 2)$
   - $4(7 + 2)$
   - $4 \cdot 2 - 4 \cdot 7$

   4

   2

   7

3 Distributive Practice

Student Task Statement

Complete the table. If you get stuck, skip an entry and come back to it, or consider drawing a diagram of two rectangles that share a side.

column 1	column 2	column 3	column 4	value
$5 \cdot 98$	$5(100 - 2)$	$5 \cdot 100 - 5 \cdot 2$	$500 - 10$	490
$33 \cdot 12$	$33(10 + 2)$			
		$3 \cdot 10 - 3 \cdot 4$	$30 - 12$	
	$100(0.04 + 0.06)$			
		$8 \cdot \frac{1}{2} + 8 \cdot \frac{1}{4}$		
			$9 + 12$	
			$24 - 16$	