

Distributive Property

$$5(3x + 2)$$
$$15x + 10$$

$$5 \begin{array}{|c|c|} \hline 3x & 2 \\ \hline 15x & 10 \\ \hline \end{array}$$

$$7(10 + y)$$
$$70 + 7y \quad \underline{\text{or}} \quad 7y + 70$$

$$6(2x + 10y - 11) =$$

$$6 \cdot 2x = 12x \quad (12x + 60y - 66)$$

$$6 \cdot 10y = 60y$$

$$6 \cdot (-11) = -66$$

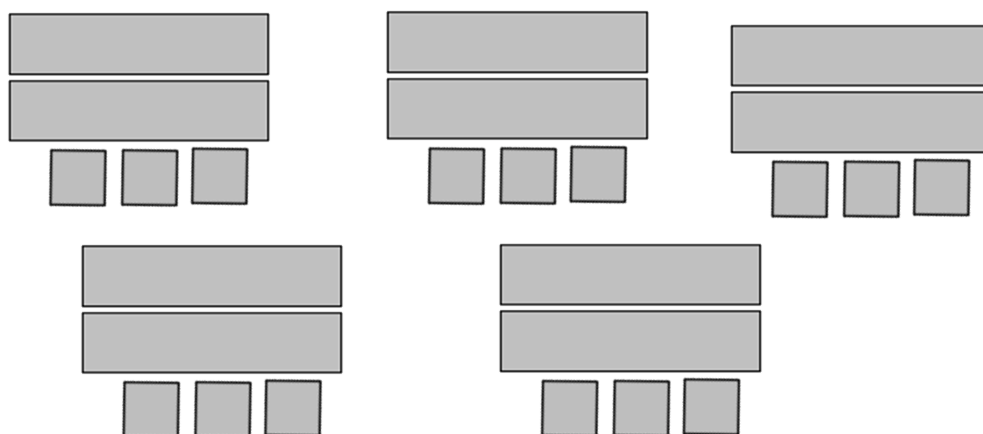
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Work by
Kalea & Nina

Write the expression $10x + 15$

Build the expression with algebra tiles.

Then **rewrite** the expression using the Distributive Property.



$$5(2x + 3)$$

Write the expression $12x + 18$

Build the expression with algebra tiles.

Then **rewrite** the expression **three different ways** using the Distributive Property.

$$\begin{array}{l} 2(6x+3) \quad 3(4x+6) \\ 6(2x+3) \end{array}$$

Distributive Property

$$21x + 7$$

$$7(3x + 1)$$

$$36 + 45x$$

$$9(4 + 5x)$$

or

$$3(12 + 15x)$$

