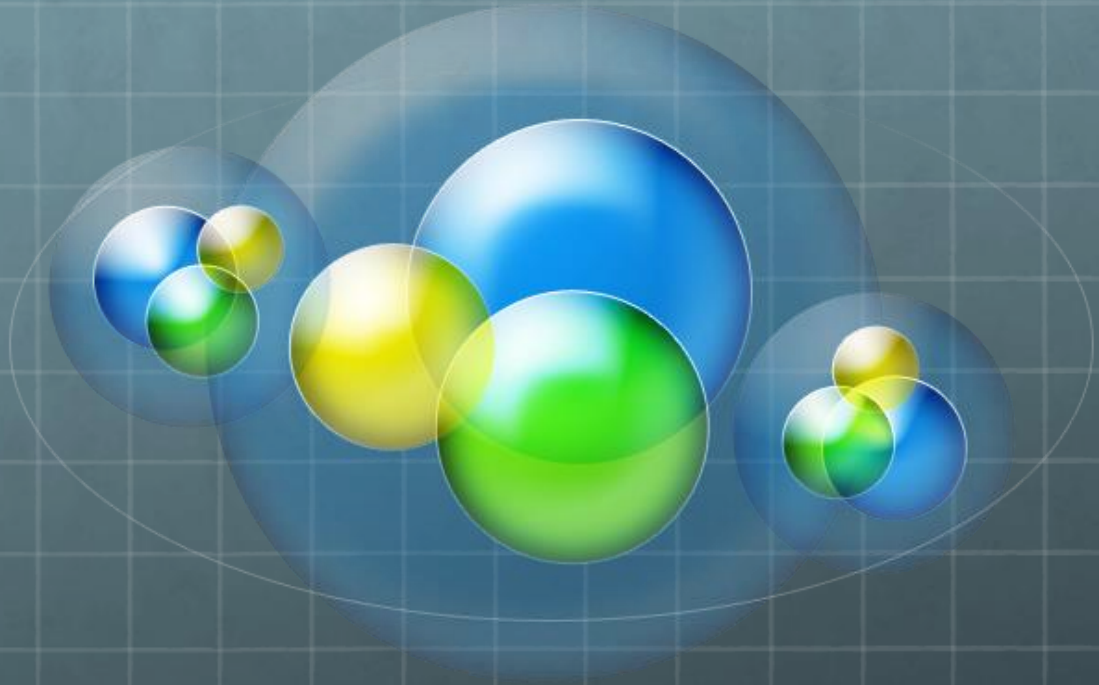


Distributive Property

6th Grade

Mr. Wong

What is the **Distributive Property**?

Is when you multiply the number outside of the parenthesis to the numbers or variables inside the parenthesis.

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

Example 1

Write each product using the Distributive Property. Then simplify.

9(31)

9(30 + 1)	*Rewrite 31 as a Sum*
(9 • 30) + (9 • 1)	*Distributive Property*
270 + 9	*Multiply*
279	*Add.*

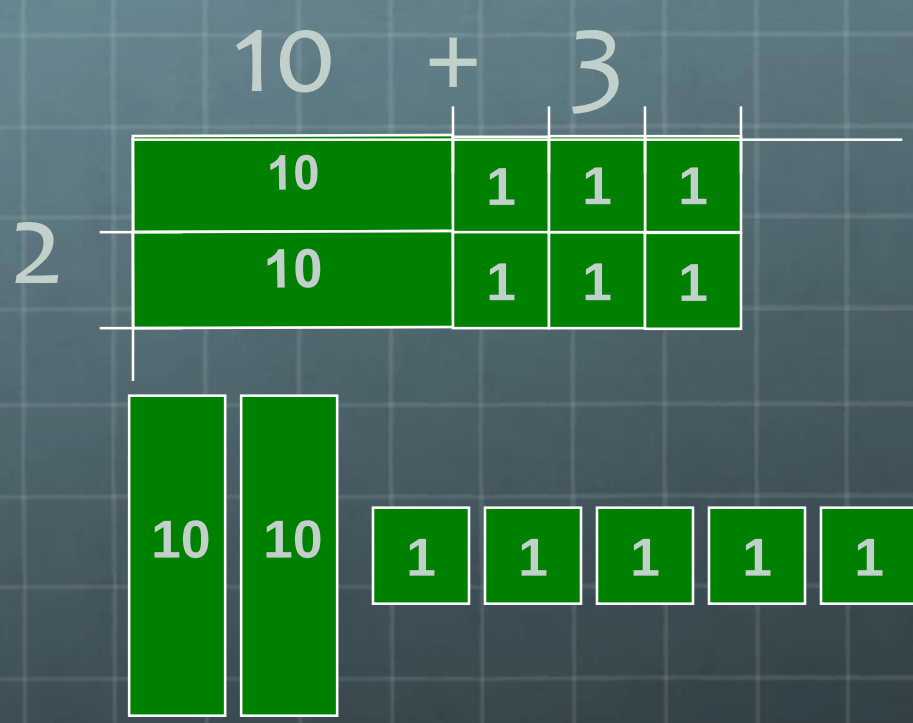
Example 2

Write each product using the Distributive Property. Then simplify.

8(59)

8(60 – 1)	*Rewrite 59 as a Difference*
(8 • 60) – (8 • 1)	*Distributive Property*
480 – 8	*Multiply*
472	*Subtract*

Example 3: 2(10 + 3) = 2(13)



distribute

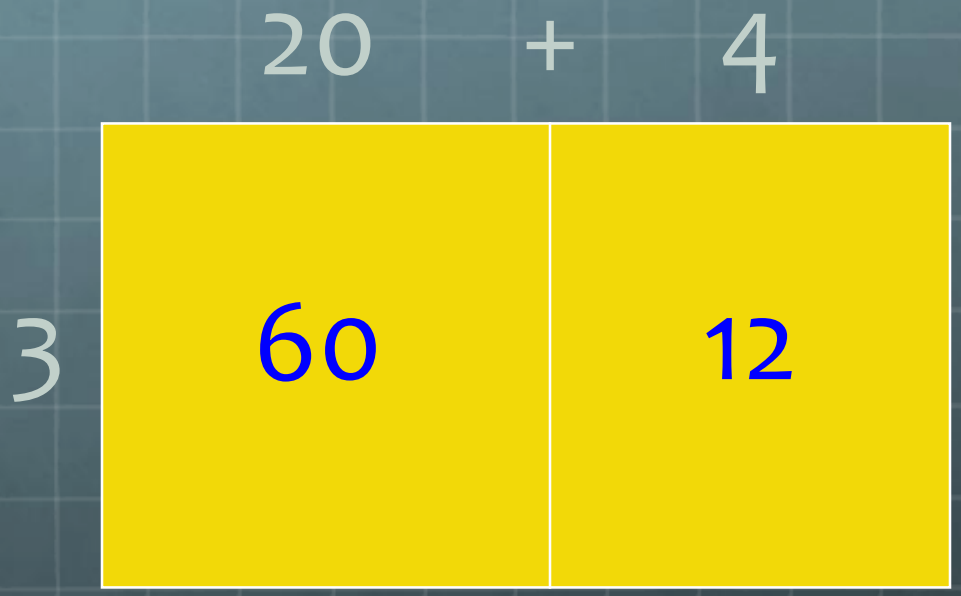
$2(10 + 3)$

$2(10) + 2(3)$

$20 + 6$

26

Example 4: 3(20 + 4) = 3(24)



distribute

3(20 + 4)

3(20) + 3(4)

60 + 12

72