

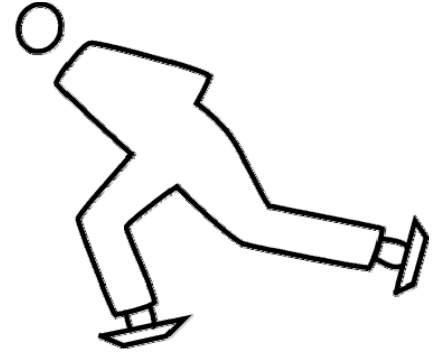
Name _____

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Distributive Property of Multiplication Step-by-Step Lesson

A. Rewrite the following statement using the distributive property of multiplication:

$$8 (2 + 3)$$



Explanation:

The distributive property of multiplication tells us that when multiplying a number by the sum of 2 numbers, the final value is equal to the sum of each addend multiplied by the third number.

It can be visually displayed as:

$$A(B + C) = AB + AC$$

Let's put this to work for us.

$$8 \quad (2 + 3) \quad = \quad (8 \times 2) + (8 \times 3)$$

multiplied sum of 2 #'s sum of addends (2 & 3) multiplied by the third number (8)

Putting it all together:

$$8 (2 + 3) = (8 \times 2) + (8 \times 3)$$

Take a minute to verify that this is true:

$$8 (2 + 3) = 8 (5) = 40$$

$$(8 \times 2) + (8 \times 3) = 16 + 24 = 40$$

