The Distributive Property

Three friends went to a baseball game. Each ticket costs $20 and all three friends bought a baseball hat for $15 each. How can I find the total spent using two different ways?

$3 \times 20 + 3 \times 15$	$3(20 + 15)$
3×20 represents: 3×15 represents:	3 represents: 20 represents: 15 represents:
Evaluate the expression: $3 \times 20 + 3 \times 15$ $3 \times 20 =$ ☐ $3 \times 15 =$ ☐ ☐ + ☐ = ☐	Evaluate the expression: $3(20 + 15)$ $(20 + 15) =$ ☐ ☐ × ☐ = ☐
What do you notice about the answers?	

My teacher's learning goals for me are that I will be able to:

- Simplify expressions using the distributive property
- Generate equivalent expression using the distributive property.

I will master the **learning goals** for **Distributive Property** with at least _____ mastery by:

1) **Asking** questions when I'm not sure of something and **answering** questions when I know the answer.
2) _____
3) _____

Distributive Property

Words To multiply a sum by a number, multiply each addend by the number outside the parentheses.

Example

Numbers: $2(7 + 4) = 2 \times 7 + 2 \times 4$

Algebra: $a(b + c) = ab + ac$

Generate an expression equivalent to $2(x + 3)$ using the Distributive Property.

$2(x + 3) = 2(x) + 2(3)$ Distributive Property

$= 2x + 6$ Multiply.

The Distributive Property I do...and you follow along and process

A. $4(x + 3)$

B. $3(x - 4)$

C. $2(5 - x)$

D. $-5(2 + x)$