

A green, rounded rectangular banner with a dark green, speckled border. The banner is flanked by two black, stylized arrow-like shapes pointing outwards. The text "Unit I" is centered in the banner in a large, bold, black font.

# Unit I

# Intro to Algebra

Interactive Notebook

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Intro to Algebra  
(Distributive Property)

I can \_\_\_\_\_  
\_\_\_\_\_

What is the distributive property?

$$a(b+c) =$$

Use the distributive property to solve the following:

$$8(x+2) =$$

Now, what if we have a negative number outside of the parentheses and the operation is subtraction?

$$-a(b-c) =$$

Use the distributive property to solve the following:

$$-5(x-4) =$$

## Intro to Algebra

(Distributive Property)

**Your Turn**

On a rating of 1-5, how comfortable  
are you with this concept?  
(5 is the highest)

1   2   3   4   5

6.)  $12(x-4)$

5.)  $-8(y+12)$

1.)  $-(x-11)$

Reflection: I learned...



## Intro to Algebra

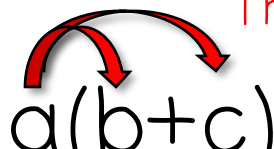
(Distributive Property)

I can "get rid" of parentheses by  
using the distributive property.


What is the distributive property?

The distributive property is used to simplify expressions by multiplying a single term by two or more terms inside parentheses.

The distributive property states that:


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

This means  
a times b  
or  $a \cdot b$

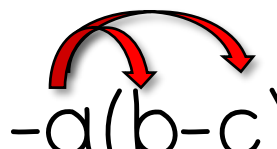


Use the distributive property to solve the following:

$$8(x+2) = 8x + 16$$

Now, what if we have a negative number outside of the parentheses and the operation is subtraction?

It is easy to make mistakes here! Remember to always look at signs! A negative multiplied by another negative is a positive!!!


$$-a(b-c) = -ab + ac$$

Use the distributive property to solve the following:

$$-5(x-4) = -5x + 20$$

## Intro to Algebra

(Distributive Property)

On a rating of 1-5, how comfortable are you with this concept?  
(5 is the highest)

1   2   3   4   5

**Your Turn**

4.)  $12(x-4)$

$12x - 48$

Teacher Note:

If you have extra space, you can have students add in any additional notes on this page!

3.)  $-8(y+12)$

$-8y - 96$

2.)  $-(x-11)$

$-x + 11$

Reflection: I learned...



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