# Unit 1

# Intro to Algebra

## Interactive Notebook

## SOLVING ONE-STEP EQUATIONS

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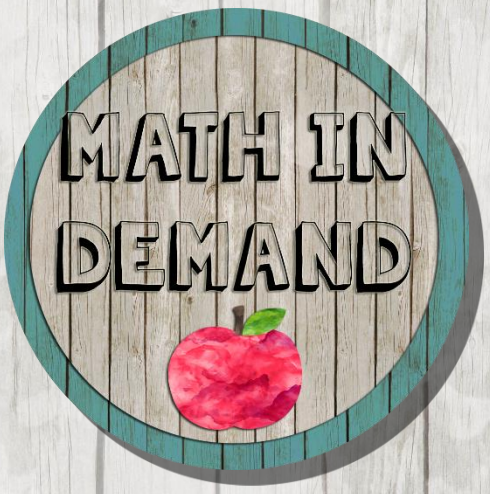


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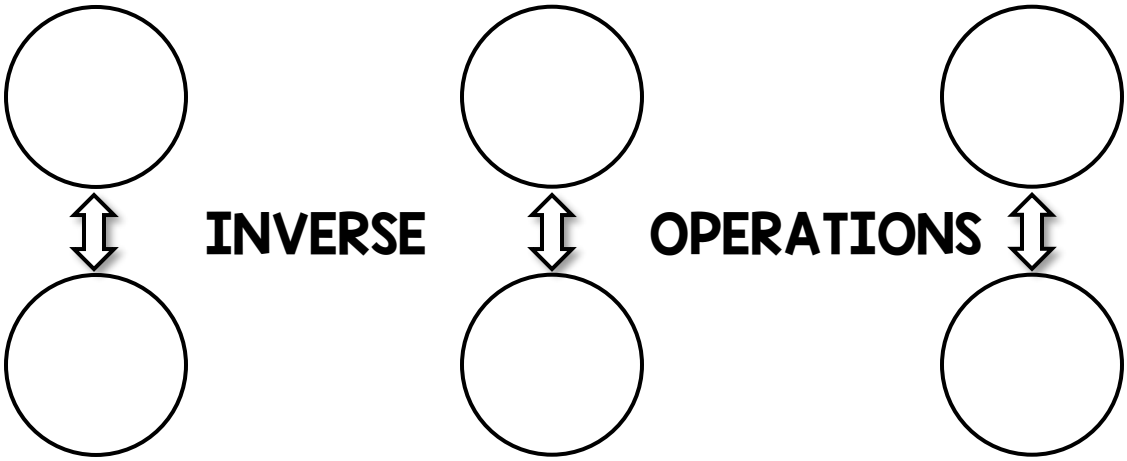
# Intro to Algebra

(Solving One-Step Equations)

I can _____

_____

What are one-step equations?




$x + 21 = -8$

$x - 3 = 12$

Use Inverse Operations to Solve for the Variables

$4x = -4$

$\frac{x}{7} = -5$

Important Note: Do Not Forget to _____ the equations!

You must do the same operation on _____ sides of the equation!

# Your Turn

## Intro to Algebra

(Solving One-Step Equations)

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

1 2 3 4 5

5.) $x - 6 = -18$

4.) $-2x = 8$

6.) $-\frac{1}{2}x = -14$

## Reflection: I learned...

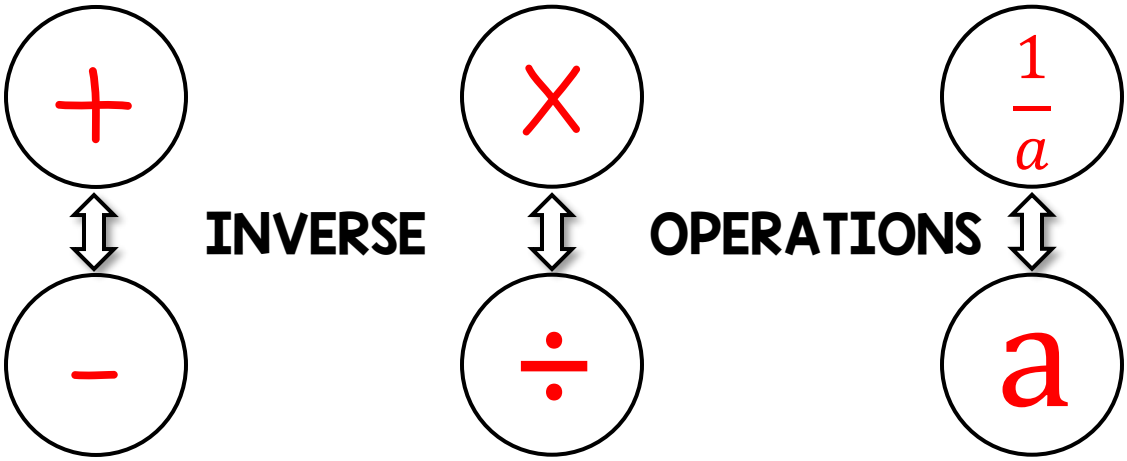
# Intro to Algebra

(Solving One-Step Equations)

I can solve one-step equations with one variable.

What are one-step equations?

One-step equations mean that there is only one step in order to solve for the variable (unknown).




$x + 21 = -8$

$-21 \quad -21$

$x = -29$

$x - 3 = 12$

$+3 \quad +3$

$x = 15$

Use Inverse Operations to Solve for the Variables

$\frac{4x}{4} = \frac{-4}{4}$

$x = -1$

$\frac{x}{7} = -5$

$x = (-5)(7)$

$x = -35$

Important Note: Do Not Forget to balance the equations! You must do the same operation on both sides of the equation!

# Your Turn

## Intro to Algebra

(Solving One-Step Equations)

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

1 2 3 4 5

3.) $x - 6 = -18$

$+6 \quad +6$

$x = -12$

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

2.) $\frac{-2x}{-2} = \frac{8}{-2}$

$x = -4$

1.) $-\frac{1}{2}x = -14$

$-x = (-14)(2)$

$-x = -28$

$x = 28$

## Reflection: I learned...

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