

keep scrolling to
get a sneak peek!

Help your PreAlgebra & Algebra 1 students practice **solving & graphing multistep inequalities with variables on one side by distributive property**. Your students will benefit from being given choice when it comes to how they want to practice math!

SOLVING INEQUALITIES DISTRIBUTIVE PROPERTY

CHOICE BOARD

Date: _____ Period: _____ Name: _____

ANSWER KEY

Solving & Graphing Inequalities - Variables on One Side

Directions: Choose _____ problems from each column. Show your work in the box.

$-2(x + 8) \geq -30$	$-(16 - 2x) > 62$
$-5(2x - 3) < 45$	$130 \geq 5x$
$-4(-3x - 2) > 4$	$319 \leq 10x$

Column 1 Solutions:

1. $-2(x + 8) \geq -30$
 $-2x - 16 \geq -30$
 $-2x \geq -14$
 $x \leq 7$

2. $-5(2x - 3) < 45$
 $-10x + 15 < 45$
 $-10x < 30$
 $x > -3$

3. $-4(-3x - 2) > 4$
 $12x + 8 > 4$
 $12x > -4$
 $x > -\frac{1}{3}$

Column 2 Solutions:

1. $-(16 - 2x) > 62$
 $-16 + 2x > 62$
 $2x > 78$
 $x > 39$

2. $130 \geq 5x$
 $26 \geq x$
 $x \leq 26$

3. $319 \leq 10x$
 $31.9 \leq x$
 $x \geq 31.9$

Math with Ms. Rivera

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Why do you need this?



Allowing student choice in how they practice will encourage them to do the practice!



You can differentiate by the number of problems required of particular students.

Solving Multistep Inequalities Variables on One Side Choice Board

Name: _____ Date: _____ Period: _____

Solving & Graphing Inequalities - Variables on One Side

Directions: Choose _____ problems from each column. Show your work in the boxes.

$6(x + 3) > 36$	$-2(x + 8) \geq -30$	$-(16 - 2x) > -10$
$2(2x + 1) \geq 62$	$-5(2x - 3) < 45$	
$5(3x + 8) \leq 100$	$-4(-3x - 2) > 4$	
$3(6x + 2) < 78$	$-(-x - 8) \leq -17$	
$8(5x + 6) \geq 288$	$-12(-2x + 8) > -192$	

ANSWER KEY

Name: _____ Date: _____ Period: _____

Solving & Graphing Inequalities - Variables on One Side

Directions: Choose _____ problems from each column. Show your work in the boxes.

$6(x + 3) > 36$ $6x + 18 > 36$ $-18 -18$ $\frac{6x}{6} > \frac{18}{6}$ $x > 3$	$-2(x + 8) \geq -30$ $-2x - 16 \geq -30$ $+16 +16$ $\frac{-2x}{-2} \geq \frac{-14}{-2}$ $x \leq 7$	$-(16 - 2x) > -10$ $-16 + 2x > -10$ $+16 +16$ $\frac{2x}{2} > \frac{6}{2}$ $x > 3$
$2(2x + 1) \geq 62$ $4x + 2 \geq 62$ $-2 -2$ $\frac{4x}{4} \geq \frac{60}{4}$ $x \geq 15$	$-5(2x - 3) < 45$ $-10x + 15 < 45$ $-15 -15$ $\frac{-10x}{-10} < \frac{30}{-10}$ $x > -3$	$130 \geq 5(-5 - 2x)$ $130 \geq -25 - 10x$ $+25 +25$ $\frac{155}{-10} \geq \frac{-10x}{-10}$ $-15.5 \geq x$
$5(3x + 8) \leq 100$ $15x + 40 \leq 100$ $-40 -40$ $\frac{15x}{15} \leq \frac{60}{15}$ $x \leq 4$	$-4(-3x - 2) > 4$ $12x + 8 > 4$ $-8 -8$ $\frac{12x}{12} > \frac{-12}{12}$ $x > -1$	$315 > 3(10 - 2x)$ $315 > 30 - 6x$ $-30 -30$ $\frac{345}{-6} > \frac{-6x}{-6}$ $-57.5 > x$
$3(6x + 2) < 78$ $18x + 6 < 78$ $-6 -6$ $\frac{18x}{18} < \frac{72}{18}$ $x < 4$	$-(-x - 8) \leq -17$ $x + 8 \leq -17$ $-8 -8$ $x \leq -25$	$315 > 3(10 - 2x)$ $315 > 30 - 6x$ $-30 -30$ $\frac{345}{-6} > \frac{-6x}{-6}$ $-57.5 > x$
$8(5x + 6) \geq 288$ $40x + 48 \geq 288$ $-48 -48$ $\frac{40x}{40} \geq \frac{240}{40}$ $x \geq 6$	$-12(-2x + 8) > -192$ $24x - 96 > -192$ $+96 +96$ $\frac{24x}{24} > \frac{-96}{24}$ $x > -4$	$315 > 3(10 - 2x)$ $315 > 30 - 6x$ $-30 -30$ $\frac{345}{-6} > \frac{-6x}{-6}$ $-57.5 > x$

Multistep Inequalities Variables on One Side Choice Board includes:

Name: _____ Date: _____ Period: _____

Solving & Graphing Inequalities - Variables on One Side

Directions: Choose _____ problems from each column. Show your work in the boxes.

$6(x + 3) > 36$	$-2(x + 8) \geq -30$	$-(16 - 2x) > -10$
$2(2x + 1) \geq 62$	$5(2x - 3) < 45$	$130 \geq 5(-5x + 4)$
$5(3x + 8) \leq 100$	$-4(-3x - 2) > 4$	$315 > -3(8x - 1)$
$3(6x + 2) \leq 12$		

- ✓ printable worksheet
- ✓ a detailed answer key
- ✓ 3 columns with 5 questions in each - 15 question total
- ✓ Spot to assign how many problems students need to complete

Multistep Inequalities Variables on One Side Choice Board

standards covered:

CCSS: HSA-REI.B.3

TEKs: A1.5.B

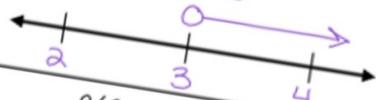
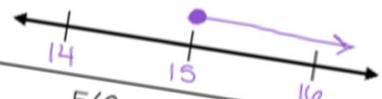
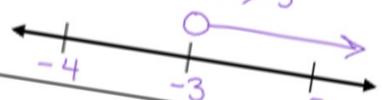
VA SOLs: EO.A.5.a

Name: _____ Date: _____ Period: _____

ANSWER KEY

Solving & Graphing Inequalities - Variables on One Side

Directions: Choose _____ problems from each column. Show your work in the boxes.

$6(x + 3) > 36$ $6x + 18 > 36$ $-18 \quad -18$ $\frac{6x}{6} > \frac{18}{6}$ $x > 3$ 	$-2(x + 8) \geq -30$ $-2x - 16 \geq -30$ $+16 \quad +16$ $\frac{-2x}{-2} \geq \frac{-14}{-2}$ $x \leq 7$ 	$-(16 - 2x) > -10$ $-16 + 2x > -10$ $+16 \quad +16$ $\frac{2x}{2} > \frac{6}{2}$ $x > 3$ 
$2(2x + 1) \geq 62$ $4x + 2 \geq 62$ $-2 \quad -2$ $\frac{4x}{4} \geq \frac{60}{4}$ $x \geq 15$ 	$-5(2x - 3) < 45$ $-10x + 15 < 45$ $-15 \quad -15$ $\frac{-10x}{-10} < \frac{30}{-10}$ $x > -3$ 	$130 \geq 5(-5x + 4)$ $130 \geq -25x + 20$ $-20 \quad -20$ $\frac{110}{-25} \geq \frac{-25x}{-25}$ $-4.4 \leq x \quad \text{or} \quad x \geq -4.4$ 
$5(3x + 8) \leq 100$ $15x + 40 \leq 100$ $-40 \quad -40$ $\frac{15x}{15} \leq \frac{60}{15}$ $x \leq 4$ 	$-4(-3x - 2) > 4$ $12x + 8 > 4$ $-8 \quad -8$ $\frac{12x}{12} > \frac{-4}{12}$ $x > -\frac{1}{3}$ 	$315 > -3(8x - 1)$ $315 > -24x + 3$ $-3 \quad -3$ $\frac{312}{-24} > -24x$ 

how the choice board resource works

Name: _____ Date: _____ Period: _____

Solving & Graphing Inequalities-Variables on One Side

Directions: Choose _____ problems from each column. Show your work in the boxes.

$6(x + 3) > 36$	$-2(x + 8) \geq -30$	$-(16-2x) > -10$
$2(2x + 1) \geq 62$	$-5(2x - 3) < 45$	$130 \geq 5(-5x + 4)$
$5(3x + 8) \leq 100$	$-4(-3x - 2) > 4$	$315 > -3(8x - 1)$
$3(6x + 2) < 78$	$-(-x - 8) \leq -17$	$2(15 - 3x) \geq -42$

Assign students the number of problems they need to complete from each column.

Differentiate the choice board worksheet by reducing the number of problems assigned to show mastery.

Students can complete the any problems they want to in each column and in any order.

how to use this resource

This is a great individual practice activity to use when reviewing how to solve & graph multistep inequalities with variables on one side by distributive property.

My favorite ways to use this choice board is for homework and math practice stations.

This is also a **substitute-friendly** assignment!

Name: _____ **ANSWER KEY** Date: _____ Period: _____

Solving & Graphing Inequalities-Variables on One Side

Directions: Choose _____ problems from each column. Show your work in the boxes.

$6(x + 3) > 36$ $6x + 18 > 36$ $-18 \quad -18$ $\frac{6x}{6} > \frac{18}{6}$ $x > 3$	$-2(x + 8) \geq -30$ $-2x - 16 \geq -30$ $+16 \quad +16$ $\frac{-2x}{-2} \geq \frac{-14}{-2}$ $x \leq 7$	$-(16-2x) > -10$ $-16 + 2x > -10$ $+16 \quad +16$ $\frac{2x}{2} > \frac{2}{2}$ $x > 3$																					
$2(2x + 1) \geq 62$ $4x + 2 \geq 62$ $-2 \quad -2$ $\frac{4x}{4} \geq \frac{60}{4}$ $x \geq 15$	<p>Name: _____ Date: _____ Period: _____</p> <p><i>Solving & Graphing Inequalities-Variables on One Side</i></p> <p>Directions: Choose _____ problems from each column. Show your work in the boxes.</p> <table border="1"> <tbody> <tr> <td> $6(x + 3) > 36$ </td> <td> $-2(x + 8) \geq -30$ </td> <td> $-(16-2x) > -10$ </td> </tr> <tr> <td> $2(2x + 1) \geq 62$ </td> <td> $-5(2x - 3) < 45$ </td> <td> $130 \geq 5(-5x + 4)$ </td> </tr> <tr> <td> $5(3x + 8) \leq 100$ </td> <td> $-4(-3x - 2) > 4$ </td> <td> $315 > -3(8x - 1)$ </td> </tr> <tr> <td> $8(5x + 6) \geq 288$ $40x + 48 \geq 288$ $-48 \quad -48$ $\frac{40x}{40} \geq \frac{240}{40}$ $x \geq 6$ </td> <td> $2(2x + 1) \geq 62$ </td> <td> $-5(2x - 3) < 45$ </td> </tr> <tr> <td> $3(6x + 2) < 78$ $18x + 6 < 78$ $-6 \quad -6$ $\frac{18x}{18} < \frac{72}{18}$ $x < 4$ </td> <td> $5(3x + 8) \leq 100$ </td> <td> $-4(-3x - 2) > 4$ </td> </tr> <tr> <td> $8(5x + 6) \geq 288$ $40x + 48 \geq 288$ $-48 \quad -48$ $\frac{40x}{40} \geq \frac{240}{40}$ $x \geq 6$ </td> <td> $2(2x + 1) \geq 62$ </td> <td> $-5(2x - 3) < 45$ </td> </tr> <tr> <td> $5(3x + 8) \leq 100$ </td> <td> $-4(-3x - 2) > 4$ </td> <td> $315 > -3(8x - 1)$ </td> </tr> </tbody> </table>		$6(x + 3) > 36$	$-2(x + 8) \geq -30$	$-(16-2x) > -10$	$2(2x + 1) \geq 62$	$-5(2x - 3) < 45$	$130 \geq 5(-5x + 4)$	$5(3x + 8) \leq 100$	$-4(-3x - 2) > 4$	$315 > -3(8x - 1)$	$8(5x + 6) \geq 288$ $40x + 48 \geq 288$ $-48 \quad -48$ $\frac{40x}{40} \geq \frac{240}{40}$ $x \geq 6$	$2(2x + 1) \geq 62$	$-5(2x - 3) < 45$	$3(6x + 2) < 78$ $18x + 6 < 78$ $-6 \quad -6$ $\frac{18x}{18} < \frac{72}{18}$ $x < 4$	$5(3x + 8) \leq 100$	$-4(-3x - 2) > 4$	$8(5x + 6) \geq 288$ $40x + 48 \geq 288$ $-48 \quad -48$ $\frac{40x}{40} \geq \frac{240}{40}$ $x \geq 6$	$2(2x + 1) \geq 62$	$-5(2x - 3) < 45$	$5(3x + 8) \leq 100$	$-4(-3x - 2) > 4$	$315 > -3(8x - 1)$
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You may also enjoy ...

SOLVING INEQUALITIES VARIABLES ON BOTH SIDES

Choice Board

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SOLVING INEQUALITIES VARIABLES ONE SIDE

Football Task Cards

Recording Sheet & Answer Key Included

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SOLVING MULTISTEP INEQUALITIES - ONE SIDE

Digital & Print Activity Pack

5 Activities

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Answer Key
Name: _____ Date: _____
ADDING & SUBTRACTING RATIONAL EXPRESSIONS
Directions: Add or subtract the rational expressions. Show your work.

ANSWER KEY
Name: _____ Date: _____
SOLVING SYSTEMS OF EQUATIONS
Directions: Solve systems of equations using substitution or elimination. Check your solution.

ANSWER KEY
Name: _____ Date: _____
MULTIPLYING & DIVIDING RATIONAL EXPRESSIONS
Directions: Multiply or divide the rational expressions. Show your work.

Rational Expression Operations - Addition & Subtraction
Directions: Answer each question and type the question number with the matching answer in the answer column to the right.

#	Question	Answer	Type the matching question numbers here
1	$\frac{5}{x} + \frac{3}{x+1}$	$\frac{2x+1}{x+2}$	
2	$\frac{2}{x+4} - \frac{x^2}{x^2-16}$	$-\frac{1}{x^2-1}$	
3	$\frac{x+2}{x^2+4x+4} + \frac{2x}{x+2}$	$\frac{2x^2+2x+5}{x^2+x-2}$	
4	$\frac{x}{x-2} + \frac{3}{x-1}$	$-\frac{x^2+2x-8}{x^2-16}$	
5	$\frac{x}{4x+8} - \frac{1}{x^2+2x}$	$\frac{8x+5}{x^2+1}$	
6	$\frac{x+2}{x-1} + \frac{x-1}{x+2}$	$\frac{x^2-3x+7}{x^2-4}$	
7	$\frac{2x+1}{x^2-4} + \frac{x-3}{x+2}$	$\frac{x^2+2x-6}{x^2-3x+2}$	
8	$\frac{x^2+2x}{x^2-1} - \frac{x+1}{x-1}$	$\frac{x-2}{4x}$	

(c) Malia Rivera, 2024



hey there!

My name is Malia and I'm passionate about making learning and practicing math fun. I love creating engaging math resources for my students and I hope your students enjoy this activity too!

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