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get a sneak peek!

Help your 8th Grade/Algebra 1 students **review solving systems of equations**. Your students will benefit from being given choice when it comes to how they want to practice math!

SYSTEMS OF EQUATIONS MIXED REVIEW

Choice Board

ANSWER KEY

Name: _____ Date: _____ Period: _____

Systems of Equations Choice Board

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

By Graphing	By Substitution	By Elimination
$y = 1/4x - 2$ $y = x + 1$ 	$y = -6x + 14$ $3x + 7y = -19$ $3x + 7(-6x + 14) = -19$ $3x - 42x + 98 = -19$ $-39x + 98 = -19$ $-39x = -117$ $-39 \quad -117$ $x = 3$ $y = -6(3) + 14$ $y = -18 + 14$ $y = -4$ (3, -4)	$x - 7y = 18$ $-x + 7y = 18$ NO SOLUTION
$y = -x + 4$ $y = 2x - 2$ 	$3x - 7y = 18$ $-x + 4y = -11$ $x = 4y + 11$ $3(4y + 11) - 7y = 18$ $12y + 33 - 7y = 18$ $5y + 33 = 18$ $-33 \quad -33$ $5y = -15$ $5 \quad 5$ $y = -3$ $-x + 4(-3) = -11$ $-x - 12 = -11$ $-x = 1$ $x = -1$	$3x - 7y = 18$ $-x + 4y = -11$

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.

Systems of Equations Mixed Review Choice Board

Name: _____ Date: _____ Period: _____

Systems of Equations Choice Board

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

By Graphing	By Substitution	By Elimination
$y = 1/4x - 2$ $y = x + 1$ 	$y = -6x + 14$ $3x + 7y = -19$ 	$x - 7y = 20$
$y = -x + 4$ $y = 2x - 2$ 	$3x - 7y = 18$ $-x + 4y = -11$ 	$x - 7y = 20$ $-x + 7y = -20$
$y = 2x + 3$ $y = 2x - 2$ 	$6x + 2y = 6$ $3x + y = 7$ 	$3x - 7y = 18$ $-x + 4y = -11$
	$6x + 2y = 6$ $3x + y = 7$ 	$6x + 2y = 6$ $3x + y = 7$

ANSWER KEY

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Systems of Equations Choice Board

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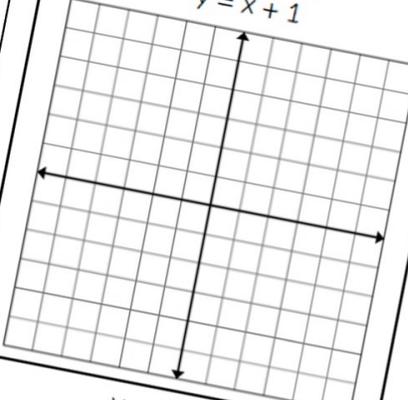
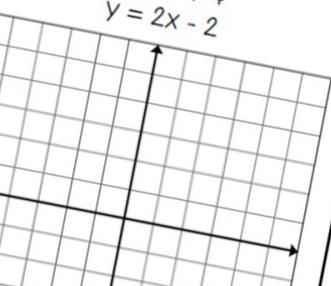
By Graphing	By Substitution	By Elimination
$y = 1/4x - 2$ $y = x + 1$ $(-4, -3)$ 	$y = -6x + 14$ $3x + 7y = -19$ $3x + 7(-6x + 14) = -19$ $3x - 42x + 98 = -19$ $-39x + 98 = -19$ $-98 - 98$ $-39x = -117$ -39 $x = 3$ $y = -6(3) + 14$ $y = -18 + 14$ $y = -4$ $(3, -4)$	$x - 7y = 20$ $-x + 7y = -20$ $0 \neq -40$ NO SOLUTION
$y = -x + 4$ $y = 2x - 2$ $(2, 2)$ 	$3x - 7y = 18$ $-x + 4y = -11$ $x = 4y + 11$ $3(4y + 11) - 7y = 18$ $12y + 33 - 7y = 18$ $5y + 33 = 18$ $-33 - 33$ $5y = -15$ $y = -3$ $-x + 4(-3) = -11$ $-x - 12 = -11$ $+12 +12$ $-x = 1$ $x = -1$ $(-1, -3)$	$-4(-3x + 7) = 12x - 28$ $3(-4x + 7) = -12x + 21$ $7(-2x + 1) = -14x + 7$ $-4x + 9$ $-4x - 7$ $-8x + 2 = 0$ $-8x = -2$ $x = 1/4$
$y = 2x + 3$ $y = 2x - 2$ NO SOLUTION	$6x + 2y = 6$ $3x + y = 7$ $y = -3x + 7$ $6x + 2(-3x + 7) = 6$ $6x - 6x + 14 = 6$ $14 \neq 6$ NO SOLUTION	$6x + 2y = 6$ $3x + y = 7$ $y = -3x + 7$ $6x + 2(-3x + 7) = 6$ $6x - 6x + 14 = 6$ $14 \neq 6$ NO SOLUTION

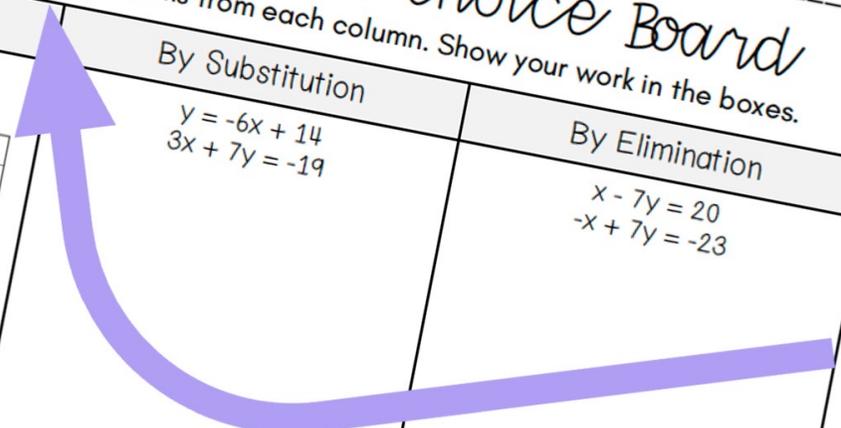
Systems of Equations Mixed Review Choice Board includes:

Name: _____ Date: _____ Period: _____

Systems of Equations Choice Board

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

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$y = \frac{1}{4}x - 2$ $y = x + 1$ 	$y = -6x + 14$ $3x + 7y = -19$	$x - 7y = 20$ $-x + 7y = -23$
$y = -x + 4$ $y = 2x - 2$ 	$3x - 7y = 18$ $-x + 4y = -11$	$-3x + 10y = -4$ $-4x + 9y = -1$



- ✓ printable worksheet
- ✓ a detailed answer key
- ✓ 3 columns with 3 questions in each - 9 question total
- ✓ Spot to assign how many problems students need to complete

Systems of Equations Mixed Review Choice Board

standards covered:

CCSS: 8.EE.C.8,
HSA-REI.C.6

TEKs: A1.5.C

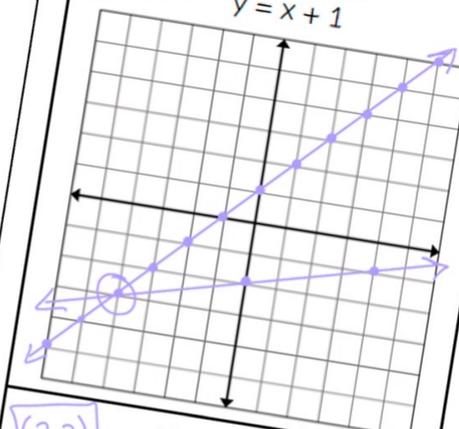
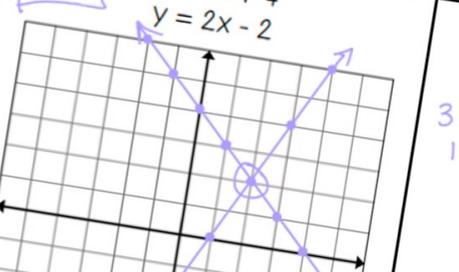
VA SOLs: EI.A.4.d

Name: _____ Date: _____ Period: _____

ANSWER KEY

Systems of Equations Choice Board

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

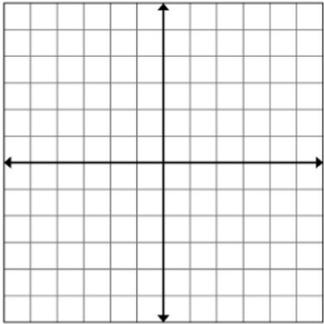
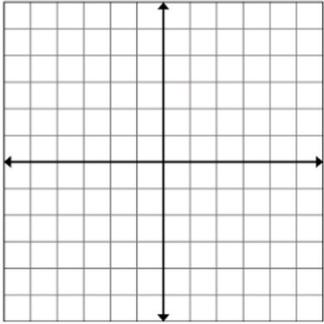
By Graphing	By Substitution	By Elimination
<p>$(-4, -3)$</p> $\begin{cases} y = 1/4x - 2 \\ y = x + 1 \end{cases}$ 	$\begin{cases} y = -6x + 14 \\ 3x + 7y = -19 \end{cases}$ $\begin{aligned} 3x + 7(-6x + 14) &= -19 \\ 3x - 42x + 98 &= -19 \\ -39x + 98 &= -19 \\ -98 - 98 & \\ -39x &= -117 \\ -39 & \quad -39 \\ x &= 3 \end{aligned}$ $\begin{aligned} y &= -6(3) + 14 \\ y &= -18 + 14 \\ y &= -4 \end{aligned}$ <p>$(3, -4)$</p>	$\begin{cases} x - 7y = 20 \\ -x + 7y = -23 \end{cases}$ $\begin{aligned} x - 7y &= 20 \\ + -x + 7y &= -23 \\ \hline 0 &= -3 \end{aligned}$ <p>NO SOLUTION</p>
<p>$(2, 2)$</p> $\begin{cases} y = -x + 4 \\ y = 2x - 2 \end{cases}$ 	$\begin{cases} 3x - 7y = 18 \\ -x + 4y = -11 \end{cases}$ $\begin{aligned} 3(4y + 11) - 7y &= 18 \\ 12y + 33 - 7y &= 18 \\ 5y + 33 &= 18 \\ -33 - 33 & \\ 5y &= -15 \end{aligned}$	$\begin{cases} -4(-3x + 10y) = -4 \\ 3(-4x + 9y) = -1 \end{cases}$ $\begin{aligned} 12x - 40y &= 16 \\ + -12x + 27y &= -3 \\ \hline -13y &= 13 \end{aligned}$

how the choice board resource works

Name: _____ Date: _____ Period: _____

Systems of Equations Choice Board

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

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$y = \frac{1}{4}x - 2$ $y = x + 1$ 	$y = -6x + 14$ $3x + 7y = -19$	$x - 7y = 20$ $-x + 7y = -23$
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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 solve systems of equations by graphing, elimination, and substitution.

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

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

Name: _____ Date: _____ Period: _____

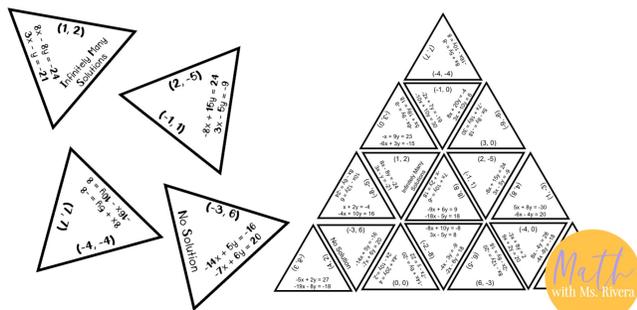
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<p>$(2, 2)$</p> $y = -x + 4$ $y = 2x - 2$	<p>Name: _____ Date: _____ Period: _____</p> <h2>Systems of Equations Choice Board</h2> <p>Directions: Choose _____ problems from each column. Show your work in the boxes.</p> <table border="1"> <thead> <tr> <th>By Graphing</th> <th>By Substitution</th> <th>By Elimination</th> </tr> </thead> <tbody> <tr> <td> $y = 1/4x - 2$ $y = x + 1$ </td> <td> $y = -6x + 14$ $3x + 7y = -19$ </td> <td> $x - 7y = 20$ $-x + 7y = -23$ </td> </tr> <tr> <td> <p>NO SOLUTION</p> $y = 2x + 3$ $y = 2x - 2$ </td> <td> $y = -x + 4$ $y = 2x - 2$ </td> <td> $3x - 7y = 18$ $-x + 4y = -11$ </td> </tr> </tbody> </table>	By Graphing	By Substitution	By Elimination	$y = 1/4x - 2$ $y = x + 1$	$y = -6x + 14$ $3x + 7y = -19$	$x - 7y = 20$ $-x + 7y = -23$	<p>NO SOLUTION</p> $y = 2x + 3$ $y = 2x - 2$	$y = -x + 4$ $y = 2x - 2$	$3x - 7y = 18$ $-x + 4y = -11$
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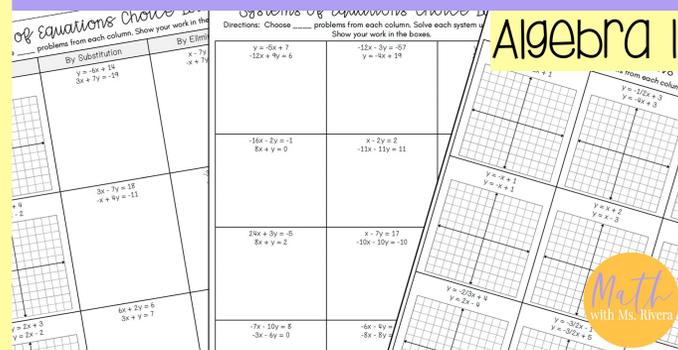
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SOLVING SYSTEMS OF EQUATIONS Tarsia Puzzle



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Algebra



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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	$\frac{x^2+2x}{x^2-1} - \frac{x+1}{x-1}$	$\frac{x-2}{4x}$	

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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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