

keep scrolling to
get a sneak peek!

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

SYSTEMS OF EQUATIONS BY ELIMINATION

CHOICE BOARD

Date: _____ Period: _____

Systems of Equations Choice Board

problems from each column. Solve each system using elimination.
Show your work in the boxes.

$\begin{aligned} 4x - 6y &= 24 \\ -4x + 2y &= 16 \end{aligned}$	$\begin{aligned} -7x + 11y &= 21 \\ 7x - 11y &= 22 \end{aligned}$
$\begin{aligned} -2x + 11y &= 9 \\ -2x - 3y &= 23 \end{aligned}$	$\begin{aligned} 2x - 11y &= 21 \\ 2x + 11y &= 22 \end{aligned}$

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

Systems of Equations Choice Board

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

$\begin{aligned} 7x - 4y &= -2 \\ + -11x + 4y &= -22 \\ \hline -4x &= -24 \\ -4 & \quad -4 \\ \hline x &= 6 \end{aligned}$ $\begin{aligned} 7(6) - 4y &= -2 \\ 42 - 4y &= -2 \\ -42 & \quad -42 \\ \hline -4y &= -44 \\ -4 & \quad -4 \\ \hline y &= 11 \end{aligned}$ <p>$(6, 11)$</p>	$\begin{aligned} 4x - 6y &= 24 \\ + -4x + 2y &= 16 \\ \hline -4y &= 40 \\ -4 & \quad -4 \\ \hline y &= -10 \end{aligned}$ $\begin{aligned} -4x + 2(-10) &= 16 \\ -4x - 20 &= 16 \\ + 20 & \quad + 20 \\ \hline -4x &= 36 \\ -4 & \quad -4 \\ \hline x &= -9 \end{aligned}$ <p>$(-9, -10)$</p>
$\begin{aligned} -5x + 2y &= 23 \\ - -5x - 3y &= -22 \\ \hline 5y &= 45 \\ 5 & \quad 5 \\ \hline y &= 9 \end{aligned}$ $\begin{aligned} -5x + 2(9) &= 23 \\ -5x + 18 &= 23 \\ -18 & \quad -18 \\ \hline -5x &= 5 \\ -5 & \quad -5 \\ \hline x &= -1 \end{aligned}$ <p>$(-1, 9)$</p>	$\begin{aligned} -2x + 11y &= 9 \\ - -2x - 3y &= 23 \\ \hline 14y &= -14 \\ 14 & \quad 14 \\ \hline y &= -1 \end{aligned}$ $\begin{aligned} -2x - 3(-1) &= 23 \\ -2x + 3 &= 23 \\ -3 & \quad -3 \\ \hline -2x &= 20 \\ -2 & \quad -2 \\ \hline x &= -10 \end{aligned}$ <p>$(-10, -1)$</p>

Math with Ms. Rivera

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 by Elimination Choice Board

Name: _____ Date: _____ Period: _____

Systems of Equations Choice Board

Directions: Choose _____ problems from each column. Solve each system using elimination. Show your work in the boxes.

$\begin{aligned} 7x - 4y &= -2 \\ -11x + 4y &= -22 \end{aligned}$	$\begin{aligned} 4x - 6y &= 24 \\ -4x + 2y &= 16 \end{aligned}$	$\begin{aligned} -7x + 11y &= 21 \\ 7x - 11y &= 22 \end{aligned}$
$\begin{aligned} -5x + 2y &= 23 \\ -5x - 3y &= -22 \end{aligned}$	$\begin{aligned} -2x + 11y &= 9 \\ -2x - 3y &= 23 \end{aligned}$	$\begin{aligned} 4x - 6y &= 24 \\ + -4x + 2y &= 16 \\ \hline -4y &= 40 \\ -4 & -4 \\ \hline y &= -10 \end{aligned}$ $\begin{aligned} -4x + 2(-10) &= 16 \\ -4x - 20 &= 16 \\ + 4x & + 20 \\ \hline -20 &= 36 \end{aligned}$ $\begin{aligned} -4x &= 36 \\ -4 & -4 \\ \hline x &= -9 \end{aligned}$ (-9, -10)
$\begin{aligned} 7(6) - 4y &= -2 \\ 42 - 4y &= -2 \\ -4y &= -44 \\ -4 & -4 \\ \hline y &= 11 \end{aligned}$ (6, 11)	$\begin{aligned} -5x + 2y &= 23 \\ -5x - 3y &= -22 \end{aligned}$ $\begin{aligned} 5y &= 45 \\ 5 & 5 \\ \hline y &= 9 \end{aligned}$ $\begin{aligned} -5x + 2(9) &= 23 \\ -5x + 18 &= 23 \\ -18 & -18 \\ \hline -5x &= 5 \\ -5 & -5 \\ \hline x &= -1 \end{aligned}$ (-1, 9)	$\begin{aligned} -2x + 11y &= 9 \\ -2x - 3y &= 23 \end{aligned}$ $\begin{aligned} 14y &= -14 \\ 14 & 14 \\ \hline y &= -1 \end{aligned}$ $\begin{aligned} -2x - 3(-1) &= 23 \\ -2x + 3 &= 23 \\ -3 & -3 \\ \hline -2x &= 20 \\ -2 & -2 \\ \hline x &= -10 \end{aligned}$ (-10, -1)
$\begin{aligned} 6x + 6y &= 24 \\ -3x + 2y &= 3 \end{aligned}$	$\begin{aligned} -3x - 2y &= 4 \\ -15x - 10y &= 15 \end{aligned}$	$\begin{aligned} 2x + 11y &= 21 \\ + 7x - 11y &= 22 \\ \hline 9x &= 43 \end{aligned}$ No solution
$\begin{aligned} 6x + 6y &= 24 \\ 2(-3x + 2y) &= 3 \\ 9 & 9 \\ \hline 10y &= 30 \\ 10 & 10 \\ \hline y &= 3 \end{aligned}$ $\begin{aligned} -3x + 2(3) &= 3 \\ -3x + 6 &= 3 \\ -6 & -6 \\ \hline -3x &= -3 \\ -3 & -3 \\ \hline x &= 1 \end{aligned}$ (1, 3)	$\begin{aligned} -5x + 2y &= 1 \\ -50x - 20y &= 10 \end{aligned}$ $\begin{aligned} 10y &= -20 \\ 10 & 10 \\ \hline y &= -2 \end{aligned}$ $\begin{aligned} -5x + 2(-2) &= 1 \\ -5x - 4 &= 1 \\ -1 & -1 \\ \hline -5x &= 5 \\ -5 & -5 \\ \hline x &= -1 \end{aligned}$ No solution	$\begin{aligned} 2x + 4(3) &= 9 \\ 2x + 12 &= 9 \\ -12 & -12 \\ \hline 2x &= -3 \\ 2 & 2 \\ \hline x &= -1.5 \end{aligned}$ $\begin{aligned} 4x - 8y &= 20 \\ 4x + 2y &= 10 \\ \hline -10y &= 10 \end{aligned}$ $\begin{aligned} -10(-5x - 2y) &= 1 \\ -50x - 20y &= 10 \\ + 50x + 20y &= 10 \\ \hline 0 &= 11 \end{aligned}$ No solution
$\begin{aligned} -12x - 9y &= -30 \\ -4x - 3y &= -10 \end{aligned}$	$\begin{aligned} -12x - 9y &= -30 \\ 2y &= -10 \end{aligned}$ $\begin{aligned} -12x - 9(-5) &= -30 \\ -12x + 45 &= -30 \\ -45 & -45 \\ \hline -12x &= -75 \\ -12 & -12 \\ \hline x &= 6.25 \end{aligned}$ $\begin{aligned} 2y &= -10 \\ 2 & 2 \\ \hline y &= -5 \end{aligned}$ (6.25, -5)	$\begin{aligned} -10(-5x - 2y) &= 1 \\ -50x - 20y &= 10 \\ + 50x + 20y &= 10 \\ \hline 0 &= 11 \end{aligned}$ No solution

Systems of Equations by Elimination Choice Board includes:

Name: _____ Date: _____ Period: _____

Systems of Equations Choice Board

Directions: Choose _____ problems from each column. Solve each system using elimination. Show your work in the boxes.

$\begin{aligned} 7x - 4y &= -2 \\ -11x + 4y &= -22 \end{aligned}$	$\begin{aligned} 4x - 6y &= 24 \\ -4x + 2y &= 16 \end{aligned}$	$\begin{aligned} -7x + 11y &= 21 \\ 7x - 11y &= 22 \end{aligned}$
$\begin{aligned} -5x + 2y &= 23 \\ -5x - 3y &= -22 \end{aligned}$	$\begin{aligned} -2x + 11y &= 9 \\ -2x - 3y &= 23 \end{aligned}$	$\begin{aligned} 2x - 11y &= -19 \\ 2x + 4y &= 26 \end{aligned}$
$\begin{aligned} 6x + 6y &= 24 \\ -3x + 2y &= 3 \end{aligned}$	$\begin{aligned} -3x - 2y &= 4 \\ -15x - 10y &= 15 \end{aligned}$	

- ✓ printable worksheet
- ✓ a detailed answer key
- ✓ 3 columns with 4 questions in each - 12 question total
- ✓ Spot to assign how many problems students need to complete

Systems of Equations by Elimination 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. Solve each system using elimination. Show your work in the boxes.

$\begin{array}{r} 7x - 4y = -2 \\ + -11x + 4y = -22 \\ \hline -4x = -24 \\ \hline x = 6 \\ 7(6) - 4y = -2 \\ 42 - 4y = -2 \\ -42 \quad -42 \\ \hline -4y = -44 \\ \hline y = 11 \end{array}$ <p style="text-align: right;">(6, 11)</p>	$\begin{array}{r} 4x - 6y = 24 \\ + -4x + 2y = 16 \\ \hline -4y = 40 \\ \hline y = -10 \\ -4x + 2(-10) = 16 \\ -4x - 20 = 16 \\ +20 \quad +20 \\ \hline -4x = 36 \\ \hline x = -9 \end{array}$ <p style="text-align: right;">(-9, -10)</p>	$\begin{array}{r} -7x + 11y = 21 \\ + 7x - 11y = 22 \\ \hline 0 = 43 \end{array}$ <p style="text-align: center;">No solution</p>
$\begin{array}{r} -5x + 2y = 23 \\ - -5x - 3y = -22 \\ \hline 5y = 45 \\ \hline y = 9 \\ -5x + 2(9) = 23 \\ -5x + 18 = 23 \\ -18 \quad -18 \\ \hline -5x = 5 \\ \hline x = -1 \end{array}$ <p style="text-align: right;">(-1, 9)</p>	$\begin{array}{r} -2x + 11y = 9 \\ - -2x - 3y = 23 \\ \hline 14y = -14 \\ \hline y = -1 \\ -2x - 3(-1) = 23 \\ -2x + 3 = 23 \\ -3 \quad -3 \\ \hline -2x = 20 \\ \hline x = -10 \end{array}$ <p style="text-align: right;">(-10, -1)</p>	$\begin{array}{r} 2x - 11y = -19 \\ - 2x + 4y = 26 \\ \hline -15y = -45 \\ \hline y = 3 \\ 2x + 4(3) = -19 \\ 2x + 12 = -19 \\ -12 \quad -12 \\ \hline 2x = -31 \\ \hline x = -15.5 \end{array}$ <p style="text-align: right;">(7, 3)</p>
$\begin{array}{r} 6x + 6y = 24 \\ - 2(-3x + 2y) = 3 \\ \hline 6x + 6y = 24 \\ + 6x - 4y = 6 \\ \hline 12x + 10y = 30 \\ \hline 12x + 10y = 30 \\ -12x - 10y = -30 \\ \hline 0 = 0 \end{array}$ <p style="text-align: right;">(7, 3)</p>	$\begin{array}{r} -5(-3x - 2y) = 20 \\ \hline 15x + 10y = 20 \\ \hline 15x + 10y = 20 \\ -15x - 10y = -20 \\ \hline 0 = 0 \end{array}$ <p style="text-align: right;">(7, 3)</p>	$\begin{array}{r} 2x - 11y = -19 \\ - 2x + 4y = 26 \\ \hline -15y = -45 \\ \hline y = 3 \\ 2x + 4(3) = -19 \\ 2x + 12 = -19 \\ -12 \quad -12 \\ \hline 2x = -31 \\ \hline x = -15.5 \end{array}$ <p style="text-align: right;">(7, 3)</p>

how the choice board resource works

Name: _____ Date: _____ Period: _____

Systems of Equations Choice Board

Directions: Choose _____ problems from each column. Solve each system using elimination.
Show your work in the boxes.

$\begin{aligned} 7x - 4y &= -2 \\ -11x + 4y &= -22 \end{aligned}$	$\begin{aligned} 4x - 6y &= 24 \\ -4x + 2y &= 16 \end{aligned}$	$\begin{aligned} -7x + 11y &= 21 \\ 7x - 11y &= 22 \end{aligned}$
$\begin{aligned} -5x + 2y &= 23 \\ -5x - 3y &= -22 \end{aligned}$	$\begin{aligned} -2x + 11y &= 9 \\ -2x - 3y &= 23 \end{aligned}$	$\begin{aligned} 2x - 11y &= -19 \\ 2x + 4y &= 26 \end{aligned}$
$\begin{aligned} 6x + 6y &= 24 \\ -3x + 2y &= 3 \end{aligned}$	$\begin{aligned} -3x - 2y &= 4 \\ -15x - 10y &= 15 \end{aligned}$	$\begin{aligned} 4x - 8y &= 0 \\ -6x + 11y &= 4 \end{aligned}$

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 using elimination.

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: _____

Systems of Equations Choice Board

Directions: Choose _____ problems from each column. Solve each system using elimination. Show your work in the boxes.

$\begin{array}{r} 7x - 4y = -2 \\ + -11x + 4y = -22 \\ \hline -4x = -24 \\ -4 \quad -4 \\ \hline x = 6 \\ 7(6) - 4y = -2 \\ 42 - 4y = -2 \\ -42 \quad -4y = -42 \\ -4 \quad -4 \\ \hline -4y = -44 \\ -4 \quad -4 \\ \hline y = 11 \end{array}$ <p>$(6, 11)$</p>	$\begin{array}{r} 4x - 6y = 24 \\ + -4x + 2y = 16 \\ \hline -4y = 40 \\ -4 \quad -4 \\ \hline y = -10 \\ -4x + 2(-10) = 16 \\ -4x - 20 = 16 \\ +20 \quad +20 \\ \hline -4x = 4 \\ -4 \quad -4 \\ \hline x = -1 \end{array}$ <p>$(-1, -10)$</p>	$\begin{array}{r} -7x + 11y = 21 \\ + 7x - 11y = 22 \\ \hline 0 = 43 \end{array}$ <p>No solution</p>																											
$\begin{array}{r} -5x + 2y = 23 \\ - -5x - 3y = -22 \\ \hline 5y = 45 \\ 5 \quad 5 \\ \hline y = 9 \\ -5x + 2(9) = 23 \\ -5x + 18 = 23 \\ -18 \quad -18 \\ \hline -5x = 5 \\ -5 \quad -5 \\ \hline x = -1 \end{array}$ <p>$(-1, 9)$</p>	<p>Name: _____ Date: _____ Period: _____</p> <h2>Systems of Equations Choice Board</h2> <p>Directions: Choose _____ problems from each column. Solve each system using elimination. Show your work in the boxes.</p> <table border="1"> <tbody> <tr> <td> $\begin{array}{r} 7x - 4y = -2 \\ -11x + 4y = -22 \\ \hline -4x = -24 \\ -4 \quad -4 \\ \hline x = 6 \\ 7(6) - 4y = -2 \\ 42 - 4y = -2 \\ -42 \quad -4y = -42 \\ -4 \quad -4 \\ \hline -4y = -44 \\ -4 \quad -4 \\ \hline y = 11 \end{array}$ <p>$(6, 11)$</p> </td> <td> $\begin{array}{r} 4x - 6y = 24 \\ + -4x + 2y = 16 \\ \hline -4y = 40 \\ -4 \quad -4 \\ \hline y = -10 \\ -4x + 2(-10) = 16 \\ -4x - 20 = 16 \\ +20 \quad +20 \\ \hline -4x = 4 \\ -4 \quad -4 \\ \hline x = -1 \end{array}$ <p>$(-1, -10)$</p> </td> <td> $\begin{array}{r} -7x + 11y = 21 \\ + 7x - 11y = 22 \\ \hline 0 = 43 \end{array}$ <p>No solution</p> </td> </tr> <tr> <td> $\begin{array}{r} -5x + 2y = 23 \\ - -5x - 3y = -22 \\ \hline 5y = 45 \\ 5 \quad 5 \\ \hline y = 9 \\ -5x + 2(9) = 23 \\ -5x + 18 = 23 \\ -18 \quad -18 \\ \hline -5x = 5 \\ -5 \quad -5 \\ \hline x = -1 \end{array}$ <p>$(-1, 9)$</p> </td> <td colspan="2"> <p>Name: _____ Date: _____ Period: _____</p> <h2>Systems of Equations Choice Board</h2> <p>Directions: Choose _____ problems from each column. 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drag & drop the purple circle over the correct answer.

$3x + y = 6$
 $3y = 2x + 18$

PARALLEL PERPENDICULAR
NEITHER

$-y + 3x = 16$
 $y - 3x = 30$

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The image shows a collage of algebra worksheets and a digital tablet. The worksheets include:

- Answer Key** for **ADDING & SUBTRACTING RATIONAL EXPRESSIONS** and **SOLVING SYSTEMS OF EQUATIONS**.
- MULTIPLYING & DIVIDING RATIONAL EXPRESSIONS** worksheet with problems like $\frac{x-2}{x^2+2x+1}$.
- SOLVING SYSTEMS OF EQUATIONS** worksheet with problems like $2. 2x - 6y = -18$ and $x = 3y - 4$.

The digital tablet displays a self-checking activity titled **Rational Expression Operations - Addition & Subtraction**. The directions are: "Answer each question and type the question number with the matching answer in the answer column to the right." The activity consists of a table with 8 questions and 8 answers. A path is drawn through the table, starting from question 1, moving right to answer 1, then up to question 2, right to answer 2, up to question 3, right to answer 3, up to question 4, right to answer 4, up to question 5, right to answer 5, up to question 6, right to answer 6, up to question 7, right to answer 7, and finally up to question 8, right to answer 8.

#	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!

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