

keep scrolling to
get a sneak peek!

Help your Algebra students practice solving multi-step equations with variables on one side with combining like terms. Students will be eager to get the self-checking benefits from this digital pixel art activity!

SOLVING MULTISTEP EQUATIONS

#	Question	Answer	Directions: Solve the equation for the unknown variable. Answer each question correctly and pixels will appear to reveal a picture!
1	$-21x + 16x - 62 = 88$		
2	$92 = -13x - 43 + 10x$		
3	$-126 + 2x + 9x = 281$		
4	$-3x - 7 + 2x + 9 = 5$		
5	$20 = 4x + 2x - 3 + 5$		
6	$13 = -8x + 9 + 5x - 8$		
7	$-3x + 5 - 11 + 8x = 24$		
8	$-2 + 2x + 3x + 7 = 15$		
9	$29 = 10 - x + 4x + 1$		
10	$50 = 5x - 3 - 8x - 7$		

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Self-Checking

Why do you need this?

Multi-Step Equations Variables on One Side Pixel Art



It's self-checking! Your students will instantly know if they are correct or not.



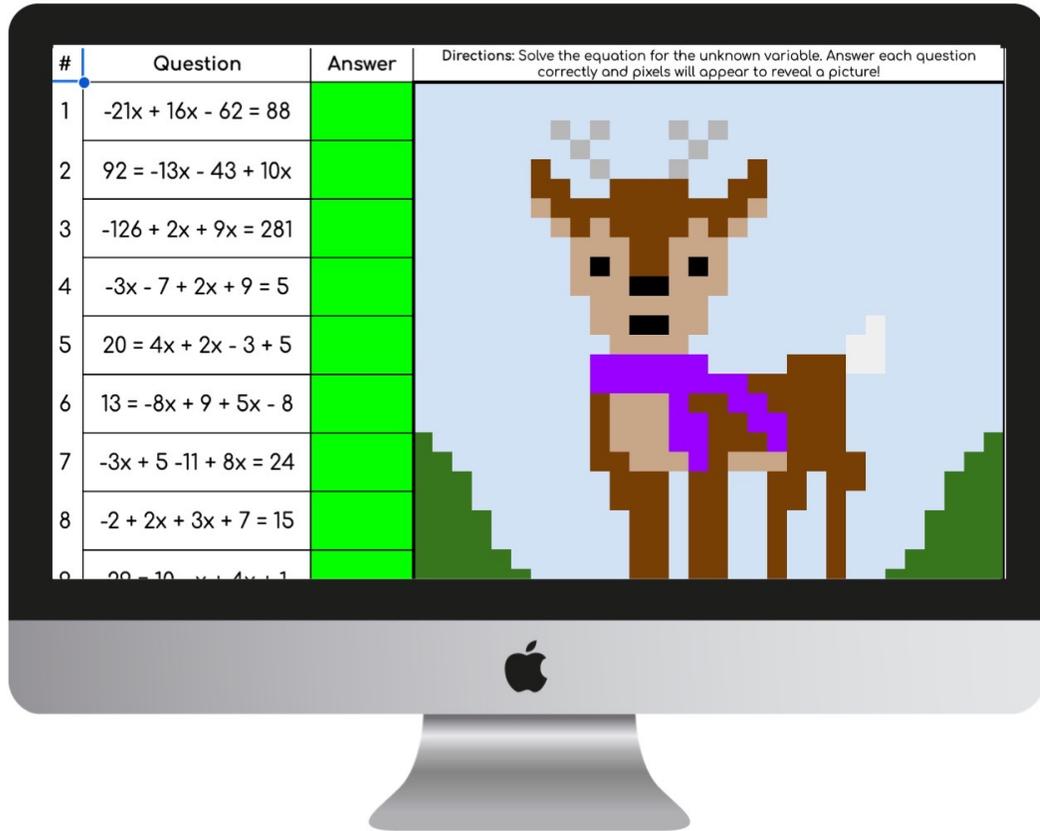
Help your students practice this essential math skill.



Your students will be so engaged trying to figure out what the picture is!

#	Question	Answer	Directions: Solve the equation for the unknown variable. Answer each question correctly and pixels will appear to reveal a picture!
1	$-21x + 16x - 62 = 88$		
2	$92 = -13x - 43 + 10x$		
3	$-126 + 2x + 9x = 281$		
4	$-3x - 7 + 2x + 9 = 5$		
5	$20 = 4x + 2x - 3 + 5$		
6	$13 = -8x + 9 + 5x - 8$		
7	$-3x + 5 - 11 + 8x = 24$		
8	$-2 + 2x + 3x + 7 = 15$		
9	$29 = 10 - x + 4x + 1$		

Multi-Step Equations Pixel Art includes:



- ✓ 10 self-checking problems
- ✓ an answer key
- ✓ a self-checking version
- ✓ an assessment version

Solving Multi-Step Equations Pixel Art

standards covered:

CCSS: 8.EE.C.7, 8.EE.C.7b,
HSA-REI.B.3

TEKs: 8.8C

VA SOLs: PFA.8.17.EI.A.4.d

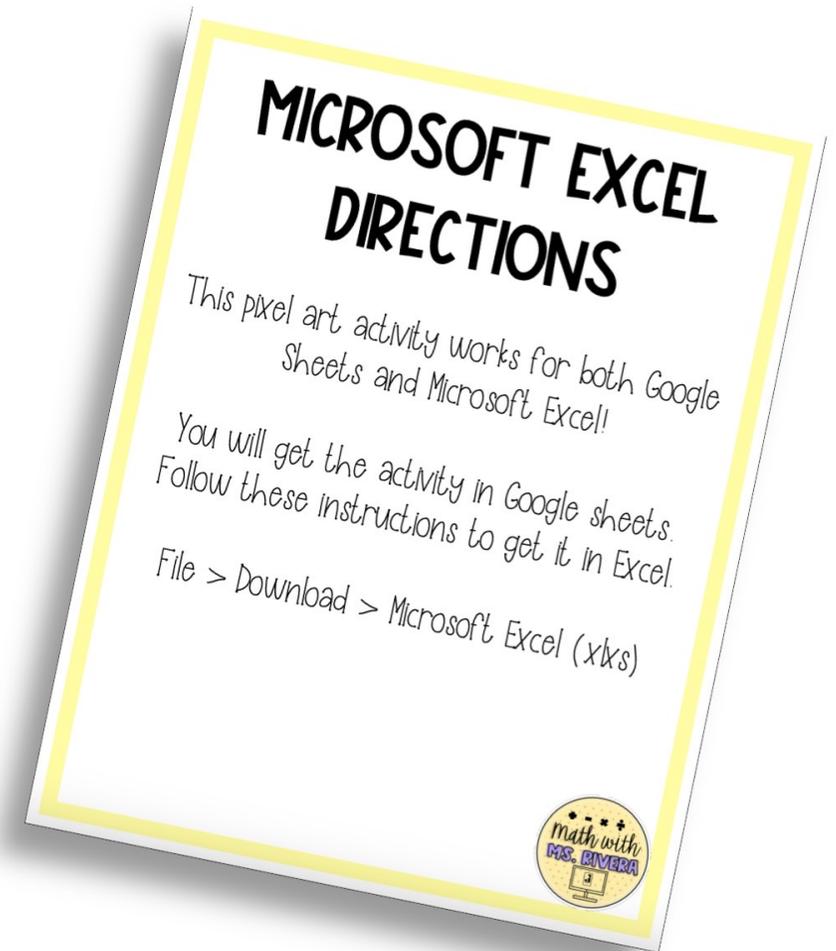
Directions: Solve the equation for the unknown variable. Answer each question correctly and pixels will appear to reveal a picture!

#	Question	Answer
1	$-21x + 16x - 62 = 88$	Green
2	$92 = -13x - 43 + 10x$	Green
3	$-126 + 2x + 9x = 281$	Green
4	$-3x - 7 + 2x + 9 = 5$	Green
5	$20 = 4x + 2x - 3 + 5$	Red
6	$13 = -8x + 9 + 5x - 8$	White
7	$-3x + 5 - 11 + 8x = 24$	White
8	$-2 + 2x + 3x + 7 = 15$	White
9	$29 = 10 - x + 4x + 1$	White

The pixel art image on the right side of the screen shows a landscape with a tree, a path, and a body of water. The tree is composed of brown and purple pixels, the path is brown, and the water is blue. The sky is light blue, and the ground is green.

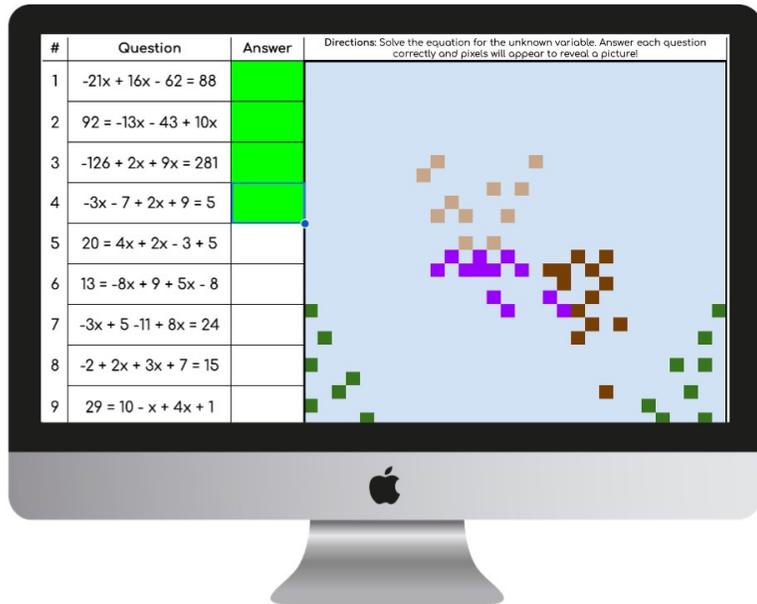
Solving Multi-Step Equations Pixel Art

Can be used with Google Sheets
and Microsoft Excel
Directions included!

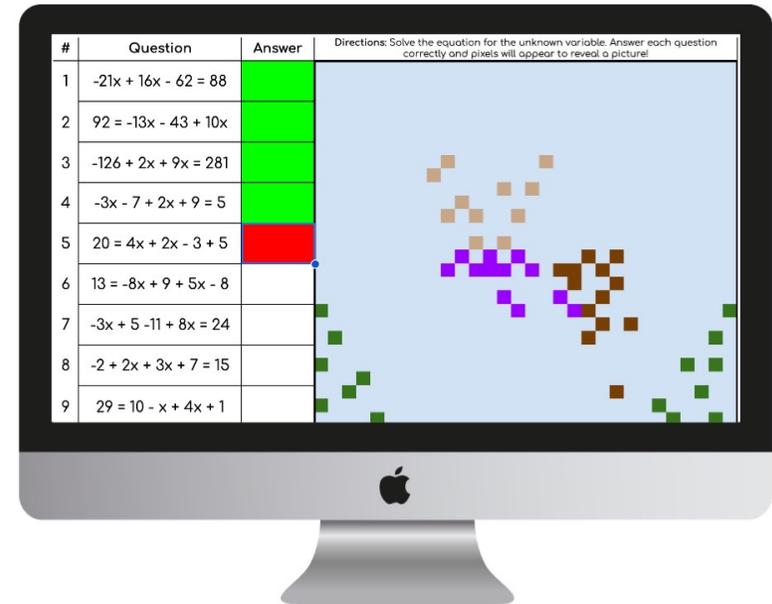


Solving Multi-Step Equations Pixel Art

If they answer it correctly, some of the pixels will appear.

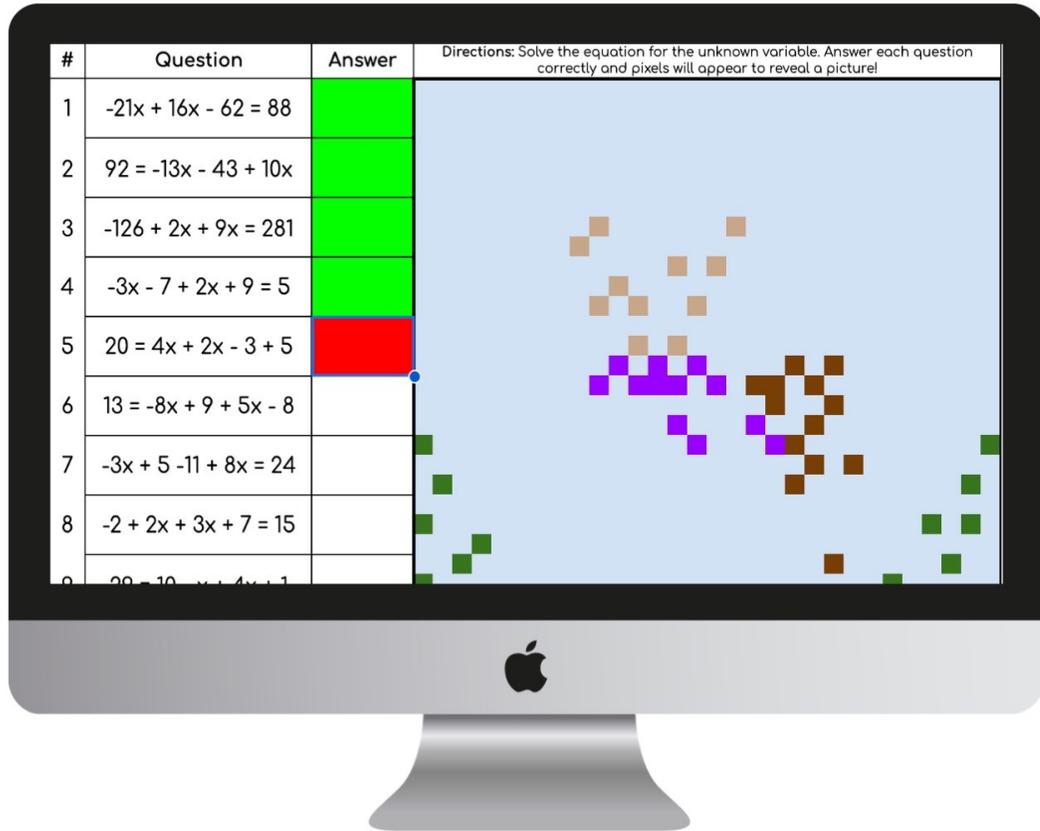


If they answer it incorrectly, the answer box will turn red & no pixels appear.



Your students will *love* trying to figure out what the picture is **WHILE** doing math!

how to use this resource



This is a great activity to use when reviewing how solve multi-step equations with combining like terms with variables on one side.

It can be used right after teaching the concept or as homework.

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

You may also enjoy ...

CHOICE BOARDS BUNDLE EQUATIONS

Algebra I

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SOLVING MULTISTEP EQUATIONS WITH VARIABLES ON ONE SIDE

Digital & Print Activity Pack

6 Activities

Math with Ms. Rivera

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SOLVING MULTI-STEP EQUATIONS PIXEL ART

#	Question	Answer
1	$9(6x + 5) = -333$	
2	$-4(3x - 4) = 44$	
3	$-2(-3x - 4) + 5x = 74$	
4	$-5(6x + 4) - 5 = -65$	
5	$126 = 4x + 5(6x - 2)$	
6	$6 + 2(6x - 3) = 72$	
7	$-4 + 6(3 - 3x) = 68$	
8	$54 = -6(-4x + 2) - 2x$	
9	$2(-6x - 3) + 6x = -45$	
10	$13 = -7 + 8(1 - 2x)$	

Directions: Solve the equation for the unknown variable. Answer each question correctly and pixels will appear to reveal a picture! Keep your answer as an improper fraction if necessary.

Self-Checking

Math with Ms. Rivera

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Free Algebra Activities!

When you join my email list, I'll send you a free Algebra print & digital self-checking activities. There is an Algebra 1 and Algebra 2 version!

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check it out!

Answer Key
Name: _____ Date: _____
ADDING & SUBTRACTING RATIONAL EXPRESSIONS
Directions: Simplify each rational expression. Show your work.

SOLVING SYSTEMS OF EQUATIONS
Date: _____
Solve each system of equations using substitution or elimination. Check your solution.

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

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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