

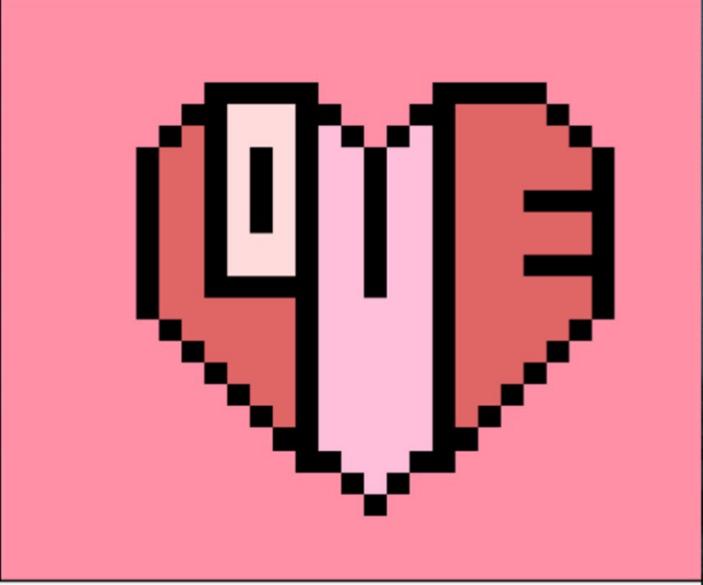
keep scrolling to
get a sneak peek!

Help your Algebra students practice **adding & subtracting radical expressions**. Students will be eager to get the self-checking benefits from this digital pixel art activity!

ADDING & SUBTRACTING RADICALS

Question	Answer
$\sqrt{3} + \sqrt{3} + \sqrt{3}$	
$2\sqrt{7} + 3\sqrt{7} - \sqrt{7}$	
$3\sqrt{5} + 4\sqrt{5}$	
$7\sqrt{2} - 2\sqrt{2}$	
$5\sqrt{12} - 2\sqrt{3}$	
$\sqrt{18} + \sqrt{50}$	
$4\sqrt{27} - 2\sqrt{12} + 3\sqrt{3}$	
$2\sqrt{20} + 5\sqrt{45} - 3\sqrt{80}$	
$6\sqrt{8} - 3\sqrt{2} + \sqrt{32}$	
$72 - \sqrt{18} + \sqrt{50} - \sqrt{8}$	

Directions: Simplify each expression. Write your answer as "sqrt" to represent the square root symbol, if possible. Do not use spaces in your answer. EX: 2sqrt3



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Self-Checking

Why do you need this?



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!

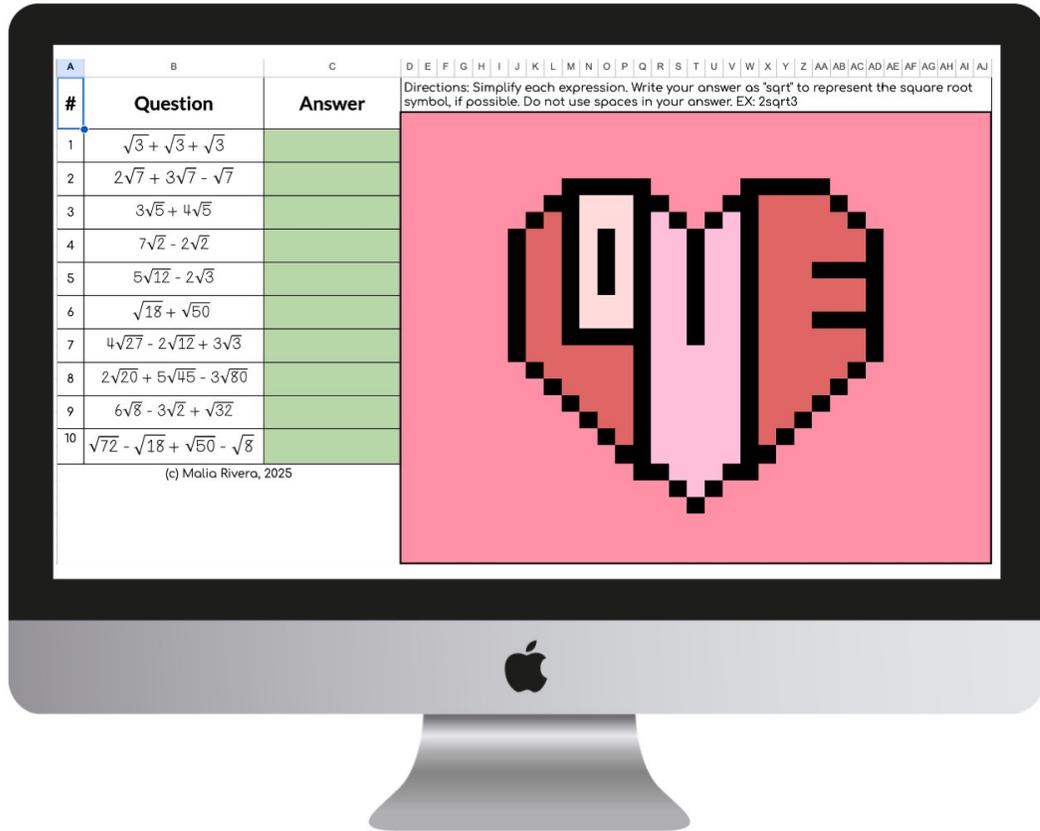
Adding & Subtracting Radicals Pixel Art

Directions: Simplify each expression. Write your answer as 'sqrt' to represent the square root symbol, if possible. Do not use spaces in your answer. EX: 2sqrt3

#	Question	Answer
1	$\sqrt{3} + \sqrt{3} + \sqrt{3}$	
2	$2\sqrt{7} + 3\sqrt{7} - \sqrt{7}$	
3	$3\sqrt{5} + 4\sqrt{5}$	
4	$7\sqrt{2} - 2\sqrt{2}$	
5	$5\sqrt{12} - 2\sqrt{3}$	
6	$\sqrt{18} + \sqrt{50}$	
7	$4\sqrt{27} - 2\sqrt{12} + 3\sqrt{3}$	
8	$2\sqrt{20} + 5\sqrt{45} - 3\sqrt{80}$	
9	$6\sqrt{8} - 3\sqrt{2} + \sqrt{32}$	
10	$\sqrt{72} - \sqrt{18} + \sqrt{50} - \sqrt{8}$	

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Adding & Subtracting Radicals Pixel Art includes:



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

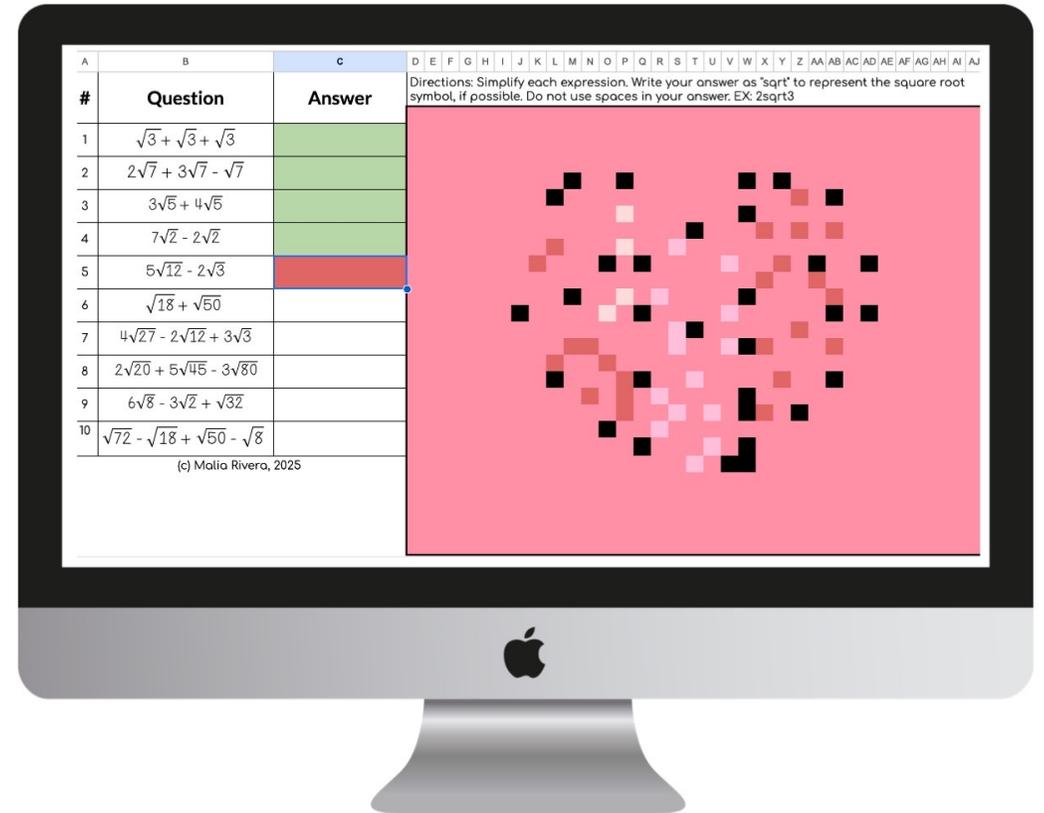
Adding & Subtracting Radicals Pixel Art

standards covered:

CCSS: HSA-REI.A.2

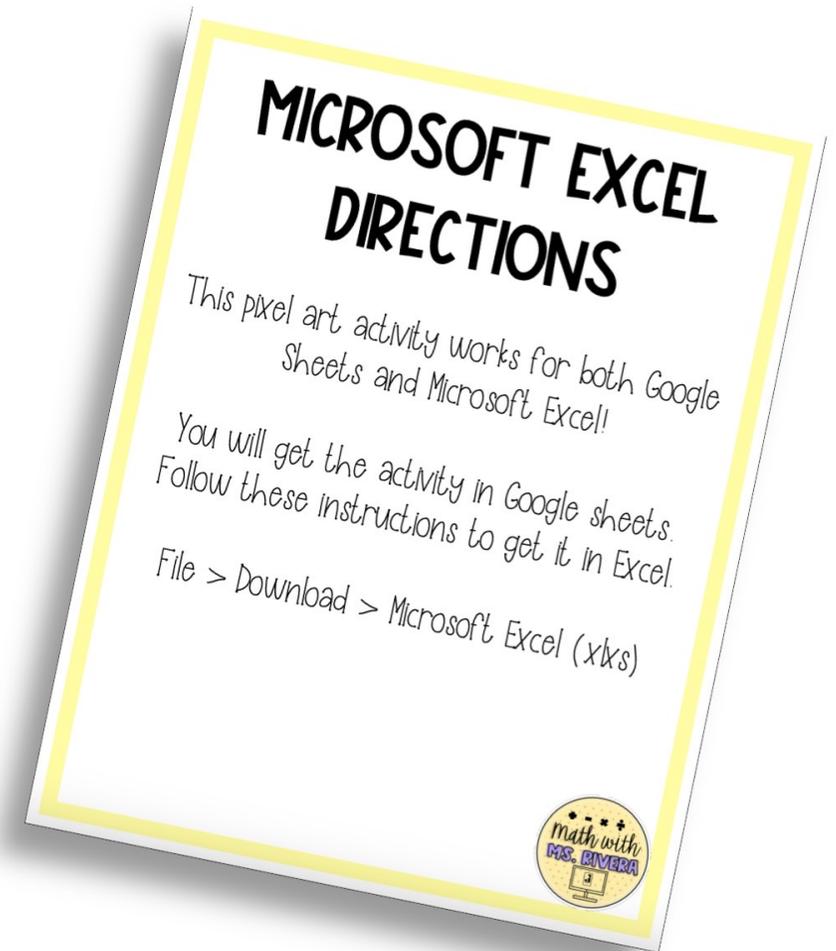
TEKs: A2.7.G

VA SOLs: EO.A.3.c



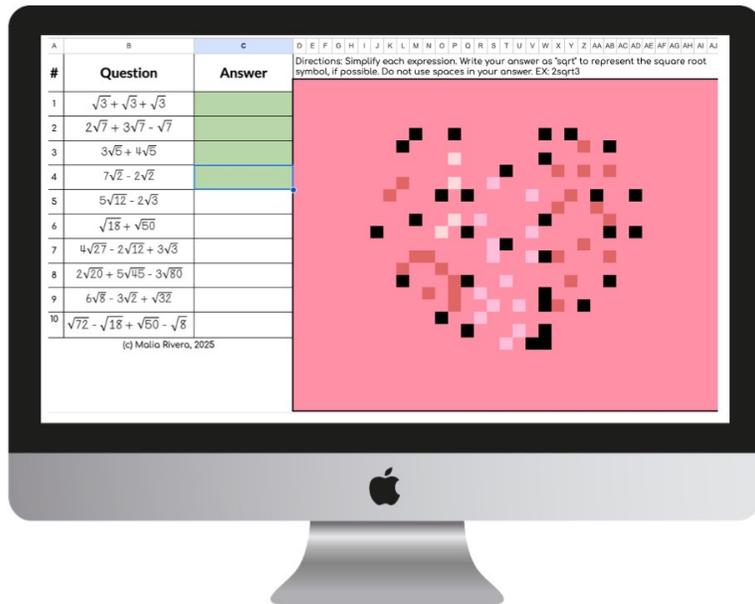
Adding & Subtracting Radicals Pixel Art

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

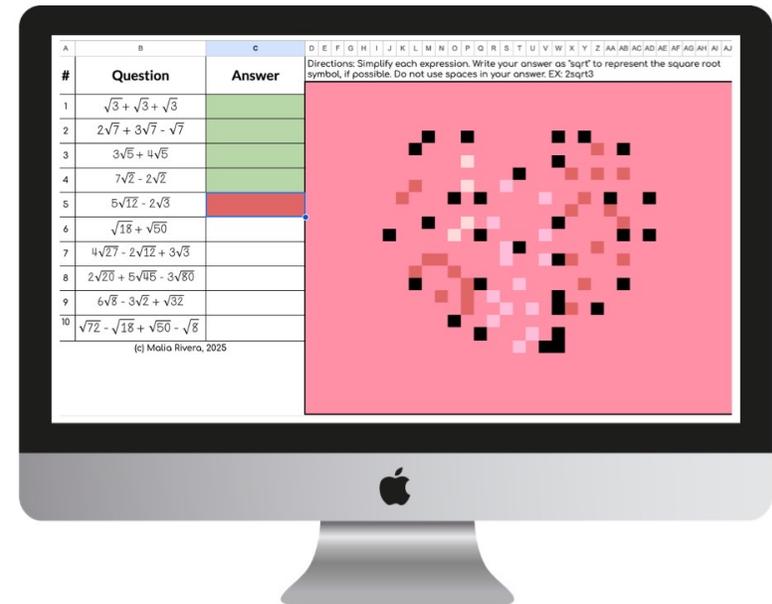


Adding & Subtracting Radicals Pixel Art

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

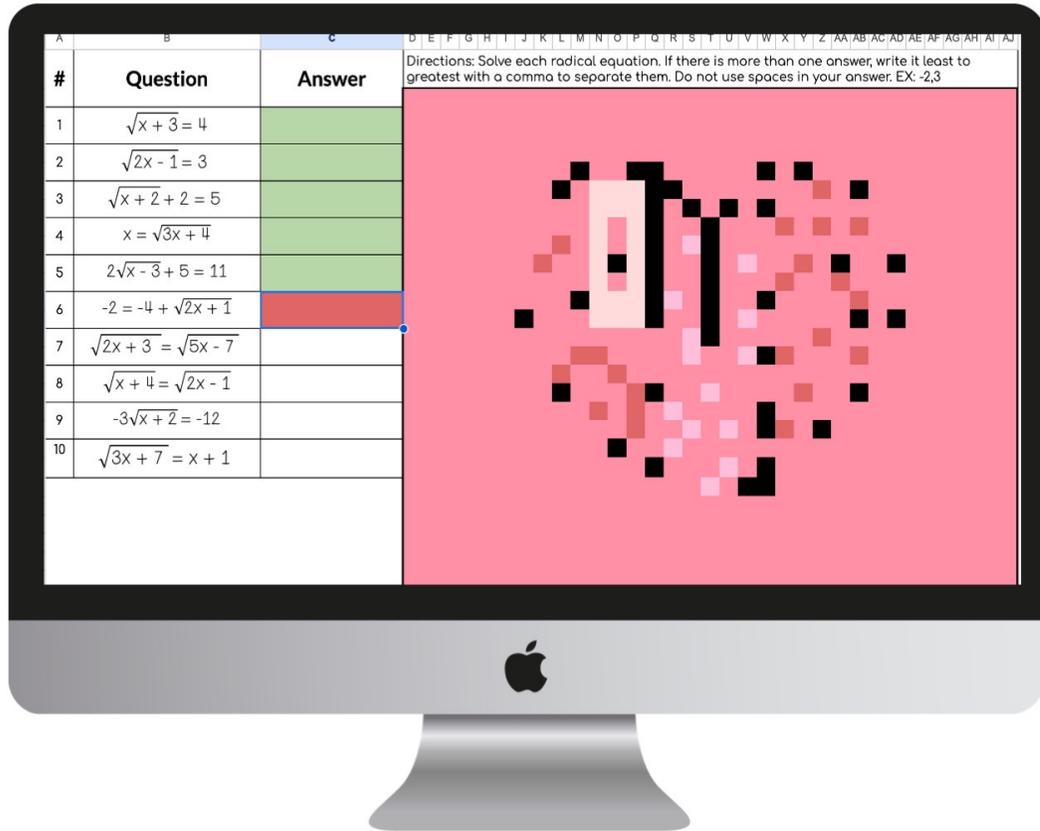


If they answer it incorrectly, the answer box will turn red & no pixels appear.



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 to add and subtract radicals (only square roots).

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

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

You may also enjoy ...

ADDING & SUBTRACTING RADICAL EXPRESSIONS

Adding & Subtracting Radicals

Directions: View of 50% if the puzzle goes off your screen. Type the answer to each question in the "Answers" column. If you answer correctly, the box will turn green and part of the mystery puzzle will appear. If you answer incorrectly, the box will turn red. Example answer: "3sqrt2-2sqrt5"

Questions	Answers
1. $3\sqrt{5} - 2\sqrt{5}$	
2. $-2\sqrt{2} + 2\sqrt{2}$	
3. $2\sqrt{63} - \sqrt{112}$	
4. $4\sqrt{128} + 5\sqrt{32}$	
5. $3\sqrt{200} - \sqrt{72}$	
6. $-2\sqrt{3} - 4\sqrt{3}$	
7. $-4\sqrt{32} - \sqrt{8}$	
8. $4\sqrt{63} + 2\sqrt{7}$	
9. $3\sqrt{3} + 4\sqrt{75}$	

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Self-Checking

CHOICE BOARDS BUNDLE RADICALS

Algebra I

Choice Boards

None	Choose	Cube Roots	Adding	Subtracting
None	Choose	$\sqrt[3]{-64}$	$\sqrt{6} + \sqrt{54}$	$\sqrt{3} - \sqrt{48}$
$\sqrt{150}$	$\sqrt[3]{-64}$	$\sqrt{250} + \sqrt{40}$	$\sqrt{72} - \sqrt{32}$	$\frac{\sqrt{2}}{\sqrt{8}}$
$\sqrt{224}$	$\sqrt[3]{-243}$	$5\sqrt{6} + 4\sqrt{54}$	$-2\sqrt{75} - 2\sqrt{27}$	$\frac{\sqrt{8}}{\sqrt{5}}$
$\sqrt{186}$	$\sqrt[3]{32}$	$\sqrt{24} + \sqrt{150} + \sqrt{5}$	$3\sqrt{20} - 3\sqrt{7}$	$\frac{\sqrt{75}}{\sqrt{75}}$
		$4\sqrt{7} + 3\sqrt{32} + 3\sqrt{112}$	$-4\sqrt{10} - 2\sqrt{10}$	$\frac{3\sqrt{5}}{\sqrt{8}}$

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RADICAL FUNCTIONS Algebra 2 Guided Notes

Algebra 2

SOLVING RADICAL

Directions: Solve each equation. Be sure to check for extraneous solutions.

Equation: $3\sqrt{4-3x} = 21$

Check: $3\sqrt{4-3(-5)} = 21$
 $3\sqrt{4+15} = 21$
 $3\sqrt{19} = 21$
 $\sqrt{19} = 7$
 $19 = 49$
 No solution.

Equation: $3\sqrt{4-3(-5)} = 21$

Check: $3\sqrt{4-3(-5)} = 21$
 $3\sqrt{4+15} = 21$
 $3\sqrt{19} = 21$
 $\sqrt{19} = 7$
 $19 = 49$
 No solution.

Equation: $3\sqrt{4-3(-5)} = 21$

Check: $3\sqrt{4-3(-5)} = 21$
 $3\sqrt{4+15} = 21$
 $3\sqrt{19} = 21$
 $\sqrt{19} = 7$
 $19 = 49$
 No solution.

GRAPHING RADICAL

Equation: $y = \sqrt{x-4}$

Domain: $x \geq 4$

Range: $y \geq 0$

Graph: A coordinate plane showing the graph of the square root function $y = \sqrt{x-4}$. The graph starts at the point (4, 0) and curves upwards and to the right.

Answer key included

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Free Algebra Activities!

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check it out!

Answer Key
Name: _____ Date: _____
ADDING & SUBTRACTING RATIONAL EXPRESSIONS
Directions: Simplify 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.

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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