

keep scrolling to
get a sneak peek!

Help your Algebra students practice adding and subtracting radical expressions. Your students will benefit from being given choice when it comes to how they want to practice math!

ADDING & SUBTRACTING RADICAL EXPRESSIONS

CHOICE BOARD

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

Adding & Subtracting Radicals

Choose _____ problems from each column. Show your work in t

Directions: Choose _____ problems from each column. Sh

	Subtracting	Adding &
$\sqrt{4}$	$\sqrt{3} - \sqrt{48}$	$\sqrt{5} - \sqrt{20}$
$\sqrt{40}$	$\sqrt{72} - \sqrt{32}$	$\sqrt{8}$
$\sqrt{54}$	$-2\sqrt{75} - 2\sqrt{27}$	-3

Adding	Subtracting
$\sqrt{6} + \sqrt{54}$ $\sqrt{6} + \sqrt{9\sqrt{6}}$ $\sqrt{6} + 3\sqrt{6}$ $4\sqrt{6}$	$\sqrt{3} - \sqrt{48}$ $\sqrt{3} - \sqrt{16 \cdot 3}$ $\sqrt{3} - \sqrt{48}$ $\sqrt{3} - 4\sqrt{3}$ $-3\sqrt{3}$
$\sqrt{250} + \sqrt{40}$ $\sqrt{25 \cdot 10} + \sqrt{4 \cdot 10}$ $\sqrt{25}\sqrt{10} + \sqrt{4}\sqrt{10}$ $5\sqrt{10} + 2\sqrt{10}$ $7\sqrt{10}$	$\sqrt{72} - \sqrt{32}$ $\sqrt{36 \cdot 2} - \sqrt{16 \cdot 2}$ $\sqrt{36}\sqrt{2} - \sqrt{16}\sqrt{2}$ $6\sqrt{2} - 4\sqrt{2}$ $2\sqrt{2}$
$5\sqrt{6} + 4\sqrt{54}$ $5\sqrt{6} + 4\sqrt{9 \cdot 6}$ $5\sqrt{6} + 4 \cdot 3\sqrt{6}$ $5\sqrt{6} + 12\sqrt{6}$ $17\sqrt{6}$	$-2\sqrt{75} - 2\sqrt{27}$ $-2\sqrt{25 \cdot 3} - 2\sqrt{9 \cdot 3}$ $-2 \cdot 5\sqrt{3} - 2 \cdot 3\sqrt{3}$ $-10\sqrt{3} - 6\sqrt{3}$ $-16\sqrt{3}$

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.

Adding & Subtracting Radicals Choice Board

Name: _____ Date: _____ Period: _____

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

Adding	Subtracting	Adding & Subtracting
$\sqrt{6} + \sqrt{54}$	$\sqrt{3} - \sqrt{48}$	
$\sqrt{250} + \sqrt{40}$	$\sqrt{72} - \sqrt{32}$	
$5\sqrt{6} + 4\sqrt{54}$	$-2\sqrt{75} - 2\sqrt{27}$	
$\sqrt{24} + \sqrt{150} + \sqrt{5}$	$3\sqrt{20} - 3\sqrt{7} - 3\sqrt{5}$	
$4\sqrt{7} + 3\sqrt{32} + 3\sqrt{112}$	$-4\sqrt{10} - 2\sqrt{8} - 4\sqrt{3}$	

ANSWER KEY

Name: _____ Date: _____ Period: _____

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

Adding	Subtracting	Adding & Subtracting
$\sqrt{6} + \sqrt{54}$ $\sqrt{6} + \sqrt{9 \cdot 6}$ $\sqrt{6} + 3\sqrt{6}$ $4\sqrt{6}$	$\sqrt{3} - \sqrt{48}$ $\sqrt{3} - \sqrt{16 \cdot 3}$ $\sqrt{3} - 4\sqrt{3}$ $-3\sqrt{3}$	$\sqrt{5} - \sqrt{6} + \sqrt{5}$ $2\sqrt{5} - \sqrt{6}$
$\sqrt{250} + \sqrt{40}$ $\sqrt{25 \cdot 10} + \sqrt{4 \cdot 10}$ $5\sqrt{10} + 2\sqrt{10}$ $7\sqrt{10}$	$\sqrt{72} - \sqrt{32}$ $\sqrt{36 \cdot 2} - \sqrt{16 \cdot 2}$ $\sqrt{36} \sqrt{2} - 4\sqrt{2}$ $6\sqrt{2} - 4\sqrt{2}$ $2\sqrt{2}$	$\sqrt{8} - \sqrt{7}$ $\sqrt{4 \cdot 2} - \sqrt{7}$ $2\sqrt{2} - \sqrt{7}$ $-4\sqrt{2}$
$5\sqrt{6} + 4\sqrt{54}$ $5\sqrt{6} + 4\sqrt{9 \cdot 6}$ $5\sqrt{6} + 4 \cdot 3\sqrt{6}$ $5\sqrt{6} + 12\sqrt{6}$ $17\sqrt{6}$	$-2\sqrt{75} - 2\sqrt{27}$ $-2\sqrt{25 \cdot 3} - 2\sqrt{9 \cdot 3}$ $-2 \cdot 5\sqrt{3} - 2 \cdot 3\sqrt{3}$ $-10\sqrt{3} - 6\sqrt{3}$ $-16\sqrt{3}$	$-3\sqrt{20}$ $-3\sqrt{4 \cdot 5}$ $-3\sqrt{4} \sqrt{5}$ $-3 \cdot 2\sqrt{5}$ $-6\sqrt{5}$
$\sqrt{24} + \sqrt{150} + \sqrt{5}$ $\sqrt{4 \cdot 6} + \sqrt{25 \cdot 6} + \sqrt{5}$ $2\sqrt{6} + 5\sqrt{6} + \sqrt{5}$ $7\sqrt{6} + \sqrt{5}$	$3\sqrt{20} - 3\sqrt{7} - 3\sqrt{5}$ $3\sqrt{4 \cdot 5} - 3\sqrt{7} - 3\sqrt{5}$ $3 \cdot 2\sqrt{5} - 3\sqrt{7} - 3\sqrt{5}$ $6\sqrt{5} - 3\sqrt{7} - 3\sqrt{5}$ $3\sqrt{5} - 3\sqrt{7}$	$2\sqrt{2}$ $2\sqrt{2}$ $2\sqrt{2}$ $2\sqrt{2}$
$4\sqrt{7} + 3\sqrt{32} + 3\sqrt{112}$ $4\sqrt{7} + 3\sqrt{16 \cdot 2} + 3\sqrt{16 \cdot 7}$ $4\sqrt{7} + 6\sqrt{2} + 3 \cdot 2\sqrt{7}$ $4\sqrt{7} + 6\sqrt{2} + 6\sqrt{7}$ $10\sqrt{7} + 6\sqrt{2}$	$-4\sqrt{10} - 2\sqrt{8} - 4\sqrt{3}$ $-4\sqrt{10} - 2\sqrt{4 \cdot 2} - 4\sqrt{3}$ $-4\sqrt{10} - 4\sqrt{2} - 4\sqrt{3}$ $-4\sqrt{10} - 4\sqrt{2} - 4\sqrt{3}$	$\sqrt{10} - 2\sqrt{8} - 4\sqrt{32}$ $\sqrt{10} - 2\sqrt{4 \cdot 2} - 4\sqrt{16 \cdot 2}$ $\sqrt{10} - 4\sqrt{2} - 16\sqrt{2}$ $\sqrt{10} - 4\sqrt{2} - 16\sqrt{2}$

Adding & Subtracting Radicals Choice Board *includes:*

Name: _____ Date: _____ Period: _____

Adding & Subtracting Radicals

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

Adding	Subtracting	Adding & Subtracting
$\sqrt{6} + \sqrt{54}$	$\sqrt{3} - \sqrt{48}$	$\sqrt{5} - \sqrt{6} + \sqrt{5}$
$\sqrt{250} + \sqrt{40}$	$\sqrt{12} - \sqrt{3}$	$\sqrt{8} - \sqrt{72} + \sqrt{6}$
$5\sqrt{6} + 4\sqrt{54}$	$-2\sqrt{75} - 2\sqrt{27}$	$-3\sqrt{20} - 3\sqrt{7} + 3\sqrt{5}$

- ✓ 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

Adding & Subtracting Radicals Choice Board

standards covered:

CCSS: HSN-RN.A.2

TEKs: A1.11.A

VA SOLs: EO.A.3.a

Name: _____ Date: _____ Period: _____

ANSWER KEY

Adding & Subtracting Radicals

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

Adding	Subtracting	Adding & Subtracting
$\sqrt{6} + \sqrt{54}$ $\sqrt{6} + \sqrt{9\sqrt{6}}$ $\sqrt{6} + 3\sqrt{6}$ $4\sqrt{6}$	$\sqrt{3} - \sqrt{48}$ $\sqrt{3} - \sqrt{16 \cdot 3}$ $\sqrt{3} - \sqrt{16}\sqrt{3}$ $\sqrt{3} - 4\sqrt{3}$ $-3\sqrt{3}$	$\sqrt{5} - \sqrt{6} + \sqrt{5}$ $2\sqrt{5} - \sqrt{6}$
$\sqrt{250} + \sqrt{40}$ $\sqrt{25 \cdot 10} + \sqrt{4 \cdot 10}$ $\sqrt{25}\sqrt{10} + \sqrt{4}\sqrt{10}$ $5\sqrt{10} + 2\sqrt{10}$ $7\sqrt{10}$	$\sqrt{72} - \sqrt{32}$ $\sqrt{36 \cdot 2} - \sqrt{16 \cdot 2}$ $\sqrt{36}\sqrt{2} - \sqrt{16}\sqrt{2}$ $6\sqrt{2} - 4\sqrt{2}$ $2\sqrt{2}$	$\sqrt{8} - \sqrt{72} + \sqrt{6}$ $\sqrt{4 \cdot 2} - \sqrt{36 \cdot 2} + \sqrt{6}$ $2\sqrt{2} - 6\sqrt{2} + \sqrt{6}$ $-4\sqrt{2} + \sqrt{6}$
$5\sqrt{6} + 4\sqrt{54}$ $5\sqrt{6} + 4\sqrt{9 \cdot 6}$ $5\sqrt{6} + 4 \cdot 3\sqrt{6}$ $5\sqrt{6} + 12\sqrt{6}$	$-2\sqrt{75} - 2\sqrt{27}$ $-2\sqrt{25 \cdot 3} - 2\sqrt{9 \cdot 3}$ $-2\sqrt{25}\sqrt{3} - 2\sqrt{9}\sqrt{3}$	$-3\sqrt{20} - 3\sqrt{7} + 3\sqrt{5}$ $-3\sqrt{4 \cdot 5} - 3\sqrt{7} + 3\sqrt{5}$

how the choice board resource works

Name: _____ Date: _____ Period: _____

Adding & Subtracting Radicals

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

Adding	Subtracting	Adding & Subtracting
$\sqrt{6} + \sqrt{54}$	$\sqrt{3} - \sqrt{48}$	$\sqrt{5} - \sqrt{6} + \sqrt{5}$
$\sqrt{250} + \sqrt{40}$	$\sqrt{72} - \sqrt{32}$	$\sqrt{8} - \sqrt{72} + \sqrt{6}$
$5\sqrt{6} + 4\sqrt{54}$	$-2\sqrt{75} - 2\sqrt{27}$	$-3\sqrt{20} - 3\sqrt{7} + 3\sqrt{5}$
$\sqrt{24} + \sqrt{150} + \sqrt{5}$	$3\sqrt{20} - 3\sqrt{7} - 3\sqrt{5}$	$2\sqrt{200} + 4\sqrt{45} + 3\sqrt{45}$

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 add and subtract radical expressions.

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: _____

Adding & Subtracting Radicals

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

Adding	Subtracting	Adding & Subtracting
$\sqrt{6} + \sqrt{54}$ $\sqrt{6} + \sqrt{9 \cdot 6}$ $\sqrt{6} + 3\sqrt{6}$ $4\sqrt{6}$	$\sqrt{3} - \sqrt{48}$ $\sqrt{3} - \sqrt{16 \cdot 3}$ $\sqrt{3} - \sqrt{16} \sqrt{3}$ $\sqrt{3} - 4\sqrt{3}$ $-3\sqrt{3}$	$\sqrt{5} - \sqrt{6} + \sqrt{5}$ $2\sqrt{5} - \sqrt{6}$

Name: _____ Date: _____ Period: _____

Adding & Subtracting Radicals

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

Adding	Subtracting	Adding & Subtracting
$\sqrt{250} + \sqrt{40}$ $\sqrt{25 \cdot 10} + \sqrt{4 \cdot 10}$ $\sqrt{25} \sqrt{10} + \sqrt{4} \sqrt{10}$ $5\sqrt{10} + 2\sqrt{10}$ $7\sqrt{10}$	$\sqrt{6} + \sqrt{54}$	$\sqrt{5} - \sqrt{6} + \sqrt{5}$
$5\sqrt{6} + 4\sqrt{54}$ $5\sqrt{6} + 4\sqrt{9 \cdot 6}$ $5\sqrt{6} + 4 \cdot 3\sqrt{6}$ $5\sqrt{6} + 12\sqrt{6}$ $17\sqrt{6}$	$\sqrt{250} + \sqrt{40}$	$\sqrt{8} - \sqrt{72} + \sqrt{6}$
$\sqrt{24} + \sqrt{150} + \sqrt{5}$ $\sqrt{4 \cdot 6} + \sqrt{25 \cdot 6} + \sqrt{5}$ $2\sqrt{6} + 5\sqrt{6} + \sqrt{5}$ $7\sqrt{6} + \sqrt{5}$	$\sqrt{72} - \sqrt{32}$	$\sqrt{8} - \sqrt{72} + \sqrt{6}$
$4\sqrt{7} + 3\sqrt{32} + 3\sqrt{112}$ $4\sqrt{7} + 3\sqrt{16 \cdot 2} + 3\sqrt{16 \cdot 7}$ $4\sqrt{7} + 3 \cdot 4\sqrt{2} + 3 \cdot 4\sqrt{7}$ $4\sqrt{7} + 12\sqrt{2} + 12\sqrt{7}$	$5\sqrt{6} + 4\sqrt{54}$	$-2\sqrt{75} - 2\sqrt{27}$
	$-2\sqrt{75} - 2\sqrt{27}$	$-3\sqrt{20} - 3\sqrt{7} + 3\sqrt{5}$

You may also enjoy ...

MULTIPLYING RADICAL EXPRESSIONS Choice Board

The image shows a student's work on a choice board for multiplying radical expressions. The student has completed several problems, showing their work in boxes. The problems include:

- $\sqrt{10}(\sqrt{2} + 5\sqrt{10})$
- $\sqrt{18} \cdot \sqrt{42}$
- $6\sqrt{2}(3 - 5\sqrt{6})$
- $\sqrt{16} \cdot 2\sqrt{7}$
- $\sqrt{6}(\sqrt{3} + \sqrt{18})$
- $\sqrt{5}(\sqrt{2} - \sqrt{10})$

The student's work is written in blue ink on a grid. The title of the worksheet is "Multiplying Radical Expressions" and it includes a section for "ANSWER KEY".

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CHOICE BOARDS BUNDLE RADICALS

Algebra I

The image shows a choice board bundle for radicals in Algebra I. The board is divided into several sections:

- None Choose**
- Cube Roots**
- Adding**
- Subtracting**

Each section contains various radical expressions for students to choose from. The expressions include:

- $\sqrt{48}$
- $\sqrt[3]{-64}$
- $\sqrt{28} \cdot \sqrt{35}$
- $\sqrt{28} \cdot \sqrt{35}$
- $\sqrt{126}$
- $\sqrt{120} + 5\sqrt{100}$
- $\sqrt{9} \cdot \sqrt{14}$
- $\sqrt{45} + 5 \cdot 10$
- $\sqrt{180}$
- $6\sqrt{2}(3 - 5\sqrt{6})$
- $\sqrt{49} \cdot \sqrt{10}$
- $18\sqrt{2} - 30\sqrt{12}$
- $\sqrt{125} \cdot \sqrt{10}$
- $18\sqrt{2} - 30\sqrt{12}$
- $7\sqrt{20}$
- $18\sqrt{2} - 30\sqrt{12}$
- $7\sqrt{45}$
- $7 \cdot 2\sqrt{5} + 14\sqrt{5}$
- $18\sqrt{2} - 30\sqrt{12}$
- $2\sqrt{16} \cdot \sqrt{10}$
- $\sqrt{6}(\sqrt{3} + \sqrt{18})$
- $2\sqrt{150}$
- $\sqrt{18} + \sqrt{108}$
- $2\sqrt{25} \cdot 6$
- $\sqrt{9} \cdot 2 + \sqrt{36} \cdot 3$
- $2\sqrt{25} \cdot 6$
- $2 \cdot 5\sqrt{6}$
- $3\sqrt{2} + 6\sqrt{3}$
- $10\sqrt{6}$

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RADICAL EXPRESSIONS Digital Activity Bundle

Algebra

The image shows a digital activity bundle for radical expressions. It features two computer monitors displaying interactive activities:

- The left monitor shows a grid of radical expressions with input fields for the answer. The expressions include:
 - $\sqrt{99} = \sqrt{\quad} \sqrt{\quad}$
 - $\sqrt{8} = \sqrt{\quad} \sqrt{\quad}$
 - $\sqrt{125} = \sqrt{\quad} \sqrt{\quad}$
 - $\sqrt{56} = \sqrt{\quad} \sqrt{\quad}$
 - $\sqrt{48} = \sqrt{\quad} \sqrt{\quad}$
 - $\sqrt{48} = \sqrt{\quad} \sqrt{\quad}$
- The right monitor shows a worksheet titled "Multiplying Radical Expressions" with a grid of problems and a photo of a panda.

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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!

You'll also be getting exclusive freebies and content to help your Algebra students be successful this school year!

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.
2. $2x - 6y = -18$
 $x = 3y - 9$
4. $2x + 6y = -1$
 $y = -2x + 3$

Answer Key
Solving Systems of Equations
Date: _____
Solve each system of equations using substitution or elimination. Check your solution.
2. $2x - 6y = -18$
 $x = 3y - 9$
 $2(3y - 9) - 6y = -18$
 $6y - 18 - 6y = -18$
 $-18 = -18$
infinitely many solutions
4. $y = 2 + 5$
 $y = 7$
 $(2, 7)$

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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