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Help your Algebra 1 students practice **simplifying non-perfect square root radical expressions**. Your students will benefit from being given choice when it comes to how they want to practice math!

# SIMPLIFYING RADICALS SQUARE ROOTS CHOICE BOARD

Date: \_\_\_\_\_

*Simplifying Non-Perfect Squares*

Choose \_\_\_\_\_ problems from each column. Show your work in the \_\_\_\_\_

$\sqrt{12}$		$\sqrt{8}$
$\sqrt{200}$		
$\sqrt{63}$		

Name: \_\_\_\_\_ **ANSWER KEY** Date: \_\_\_\_\_

*Simplifying Non-Perfect Squares*

Directions: Choose \_\_\_\_\_ problems from each column.

$\sqrt{18}$ $\sqrt{9 \cdot 2}$ $\sqrt{9}\sqrt{2}$ $3\sqrt{2}$	$\sqrt{12}$ $\sqrt{4 \cdot 3}$ $\sqrt{4}\sqrt{3}$ $2\sqrt{3}$
$\sqrt{108}$ $\sqrt{36 \cdot 3}$ $\sqrt{36}\sqrt{3}$ $6\sqrt{3}$	$\sqrt{200}$ $\sqrt{2 \cdot 100}$ $\sqrt{2}\sqrt{100}$ $10\sqrt{2}$
$\sqrt{32}$ $\sqrt{16 \cdot 2}$ $\sqrt{16}\sqrt{2}$	$\sqrt{9 \cdot 2}$ $\sqrt{9}\sqrt{2}$ $3\sqrt{2}$

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.

# Simplifying Non-Perfect Square Roots Choice Board

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

*Simplifying Non-Perfect Squares*

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

$\sqrt{18}$	$\sqrt{12}$	$\sqrt{8}$
$\sqrt{108}$	$\sqrt{200}$	$\sqrt{4.2}$ $\sqrt{4.3}$ $2\sqrt{2}$
$\sqrt{32}$	$\sqrt{63}$	$\sqrt{72}$ $\sqrt{36}$ $\sqrt{36}$ 6
$3\sqrt{20}$	$-4\sqrt{343}$	$\sqrt{200}$ $\sqrt{2 \cdot 100}$ $\sqrt{2} \sqrt{100}$ $10\sqrt{2}$
$-5\sqrt{48}$	$-6\sqrt{45}$	$\sqrt{32}$ $\sqrt{16 \cdot 2}$ $\sqrt{16} \sqrt{2}$ $4\sqrt{2}$
		$\sqrt{63}$ $\sqrt{9 \cdot 7}$ $\sqrt{9} \sqrt{7}$ $3\sqrt{7}$
		$-4\sqrt{343}$ $-4\sqrt{49 \cdot 7}$ $-4\sqrt{49} \sqrt{7}$ $-4 \cdot 7 \sqrt{7}$ $-28\sqrt{7}$
		$3\sqrt{20}$ $3\sqrt{4 \cdot 5}$ $3\sqrt{4} \sqrt{5}$ $3 \cdot 2\sqrt{5}$ $6\sqrt{5}$
		$-6\sqrt{45}$ $-6\sqrt{9 \cdot 5}$ $-6\sqrt{9} \sqrt{5}$ $-6 \cdot 3\sqrt{5}$ $-18\sqrt{5}$

**ANSWER KEY**

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

*Simplifying Non-Perfect Squares*

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

$\sqrt{18}$	$\sqrt{12}$	$\sqrt{8}$
$\sqrt{9 \cdot 2}$ $\sqrt{9} \sqrt{2}$ $3\sqrt{2}$	$\sqrt{4 \cdot 3}$ $\sqrt{4} \sqrt{3}$ $2\sqrt{3}$	$\sqrt{4 \cdot 2}$ $\sqrt{4} \sqrt{2}$ $2\sqrt{2}$
$\sqrt{108}$	$\sqrt{200}$	$\sqrt{72}$ $\sqrt{36}$ $\sqrt{36}$ 6
$\sqrt{36 \cdot 3}$ $\sqrt{36} \sqrt{3}$ $6\sqrt{3}$	$\sqrt{2 \cdot 100}$ $\sqrt{2} \sqrt{100}$ $10\sqrt{2}$	$\sqrt{32}$ $\sqrt{16 \cdot 2}$ $\sqrt{16} \sqrt{2}$ $4\sqrt{2}$
$\sqrt{32}$	$\sqrt{63}$	$\sqrt{63}$ $\sqrt{9 \cdot 7}$ $\sqrt{9} \sqrt{7}$ $3\sqrt{7}$
$3\sqrt{20}$	$-4\sqrt{343}$	$-4\sqrt{343}$ $-4\sqrt{49 \cdot 7}$ $-4\sqrt{49} \sqrt{7}$ $-4 \cdot 7 \sqrt{7}$ $-28\sqrt{7}$
$-5\sqrt{48}$	$-6\sqrt{45}$	$3\sqrt{20}$ $3\sqrt{4 \cdot 5}$ $3\sqrt{4} \sqrt{5}$ $3 \cdot 2\sqrt{5}$ $6\sqrt{5}$
		$-6\sqrt{45}$ $-6\sqrt{9 \cdot 5}$ $-6\sqrt{9} \sqrt{5}$ $-6 \cdot 3\sqrt{5}$ $-18\sqrt{5}$


# Simplifying Square Roots Choice Board *includes:*

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

## Simplifying Non-Perfect Squares

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

$\sqrt{18}$	$\sqrt{12}$	$\sqrt{8}$
$\sqrt{108}$	$\sqrt{200}$	$\sqrt{72}$
$\sqrt{32}$	$\sqrt{63}$	$\sqrt{128}$



- ✓ 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

# Simplifying Non-Perfect Square Roots Choice Board

standards covered:

**CCSS:** HSA-RN.A.2

**TEKs:** A1.11.A

**VA SOLs:** EO.A.3.a

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

**ANSWER KEY**

Simplifying Non-Perfect Squares

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

$\sqrt{18}$ $\sqrt{9 \cdot 2}$ $\sqrt{9}\sqrt{2}$ $3\sqrt{2}$	$\sqrt{12}$ $\sqrt{4 \cdot 3}$ $\sqrt{4}\sqrt{3}$ $2\sqrt{3}$	$\sqrt{8}$ $\sqrt{4 \cdot 2}$ $\sqrt{4}\sqrt{2}$ $2\sqrt{2}$
$\sqrt{108}$ $\sqrt{36 \cdot 3}$ $\sqrt{36}\sqrt{3}$ $6\sqrt{3}$	$\sqrt{200}$ $\sqrt{2 \cdot 100}$ $\sqrt{2}\sqrt{100}$ $10\sqrt{2}$	$\sqrt{72}$ $\sqrt{36 \cdot 2}$ $\sqrt{36}\sqrt{2}$ $6\sqrt{2}$
$\sqrt{32}$ $\sqrt{16 \cdot 2}$ $\sqrt{16}\sqrt{2}$ $4\sqrt{2}$	$\sqrt{63}$ $\sqrt{9 \cdot 7}$ $\sqrt{9}\sqrt{7}$	$\sqrt{128}$ $\sqrt{64 \cdot 2}$

# how the choice board resource works

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

*Simplifying Non-Perfect Squares*

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

$\sqrt{18}$	$\sqrt{12}$	$\sqrt{8}$
$\sqrt{108}$	$\sqrt{200}$	$\sqrt{72}$
$\sqrt{32}$	$\sqrt{63}$	$\sqrt{128}$
$3\sqrt{20}$	$-4\sqrt{343}$	$6\sqrt{75}$

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 simplify square root radical expressions.

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

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

<p>Name: _____ <b>ANSWER KEY</b> _____ Date: _____ Period: _____</p> <p><i>Simplifying Non-Perfect Squares</i></p> <p>Directions: Choose _____ problems from each column. Show your work in the boxes.</p>		
$\frac{\sqrt{18}}{\sqrt{9 \cdot 2}}$ $\frac{\sqrt{9}\sqrt{2}}{\sqrt{9}\sqrt{2}}$ $3\sqrt{2}$	$\frac{\sqrt{12}}{\sqrt{4 \cdot 3}}$ $\frac{\sqrt{4}\sqrt{3}}{\sqrt{4}\sqrt{3}}$ $2\sqrt{3}$	$\frac{\sqrt{8}}{\sqrt{4 \cdot 2}}$ $\frac{\sqrt{4}\sqrt{2}}{\sqrt{4}\sqrt{2}}$ $2\sqrt{2}$
$\frac{\sqrt{108}}{\sqrt{36 \cdot 3}}$ $\frac{\sqrt{36}\sqrt{3}}{\sqrt{36}\sqrt{3}}$ $6\sqrt{3}$	<p>Name: _____ Date: _____ Period: _____</p> <p><i>Simplifying Non-Perfect Squares</i></p> <p>Directions: Choose _____ problems from each column. Show your work in the boxes.</p>	
$\frac{\sqrt{32}}{\sqrt{16 \cdot 2}}$ $\frac{\sqrt{16}\sqrt{2}}{\sqrt{16}\sqrt{2}}$ $4\sqrt{2}$	$\sqrt{18}$	$\sqrt{12}$
$\frac{3\sqrt{20}}{3\sqrt{4 \cdot 5}}$ $\frac{3\sqrt{4}\sqrt{5}}{3\sqrt{4}\sqrt{5}}$ $3 \cdot 2\sqrt{5}$ $6\sqrt{5}$	$\sqrt{108}$	$\sqrt{200}$
$\frac{-5\sqrt{48}}{-5\sqrt{16 \cdot 3}}$ $\frac{-5\sqrt{16}\sqrt{3}}{-5\sqrt{16}\sqrt{3}}$ $5\sqrt{3}$	$\sqrt{32}$	$\sqrt{63}$
		$\sqrt{128}$

You may also enjoy ...

## SIMPLIFYING RADICALS CUBE ROOTS Choice Board

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## SIMPLIFYING RADICAL EXPRESSIONS Choice Board

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## SIMPLIFYING RADICALS Digital & Print Activity Pack

9 Activities

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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!

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  $2. \frac{x}{x+4} \cdot \frac{x^2}{x^2-16}$ .
- 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, with a path of colored lines connecting the questions to their correct answers.

#	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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