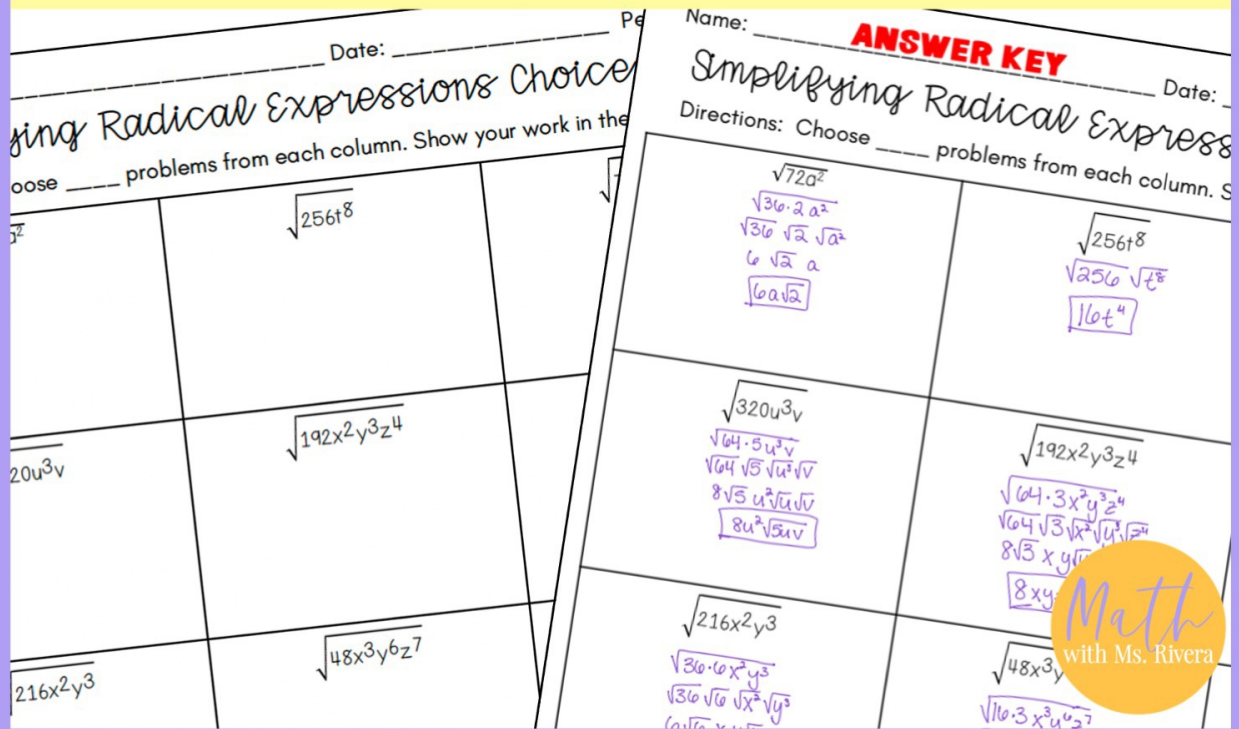
keep scrolling to get a sneak peek!

Help your Algebra 1 students practice **simplifying square roots with variables**. Your students will benefit from being given choice when it comes to how they want to practice math!

SIMPLIFYING RADICAL EXPRESSIONS

Choice Board

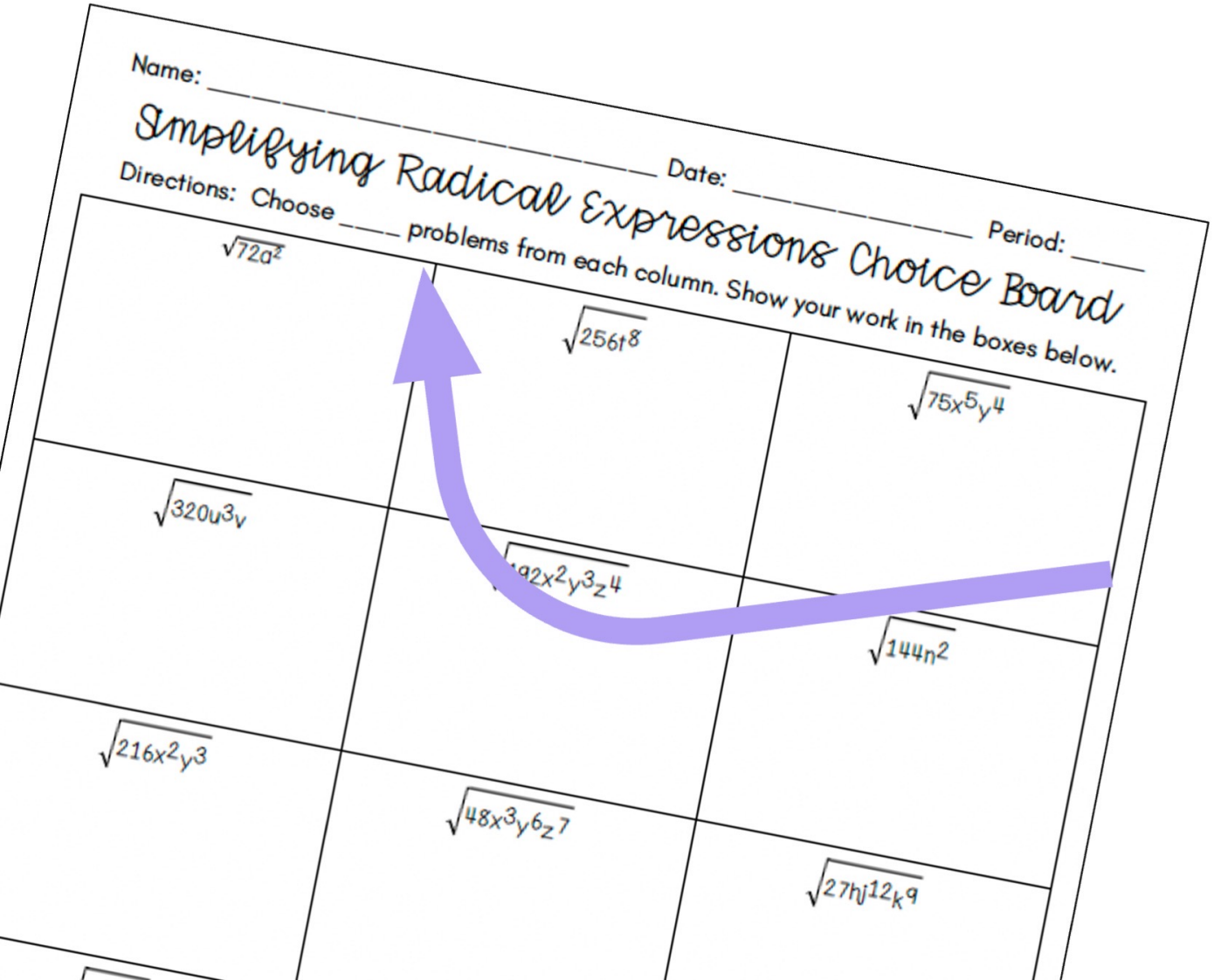


Simplifying Square Roots with Variables Choice Board

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 Radicals with Variables Choice Board *includes*:



✅ 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

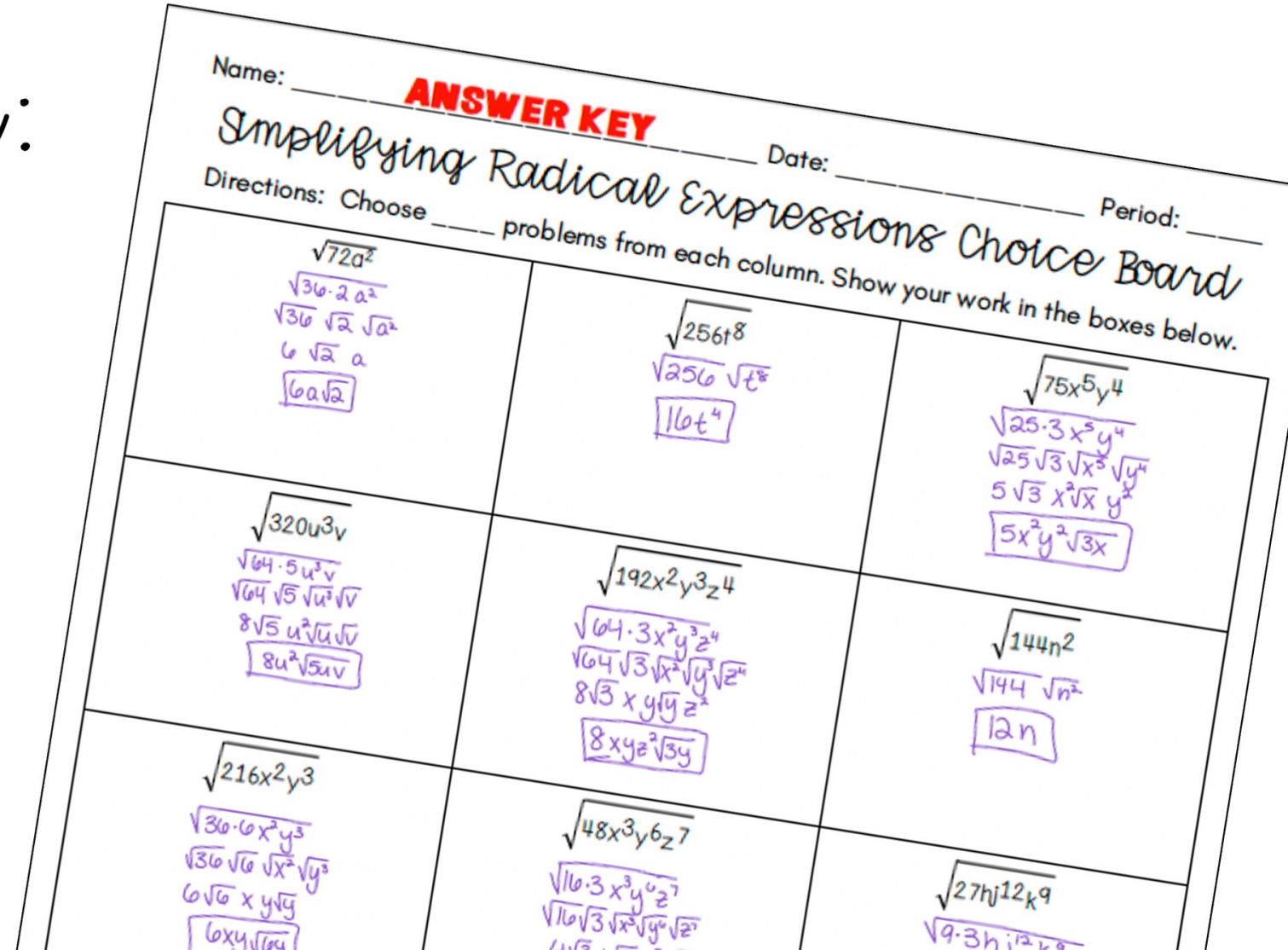
Simplifying Radicals with Variables Choice Board

standards covered:

CCSS: HSA-RN.A.2

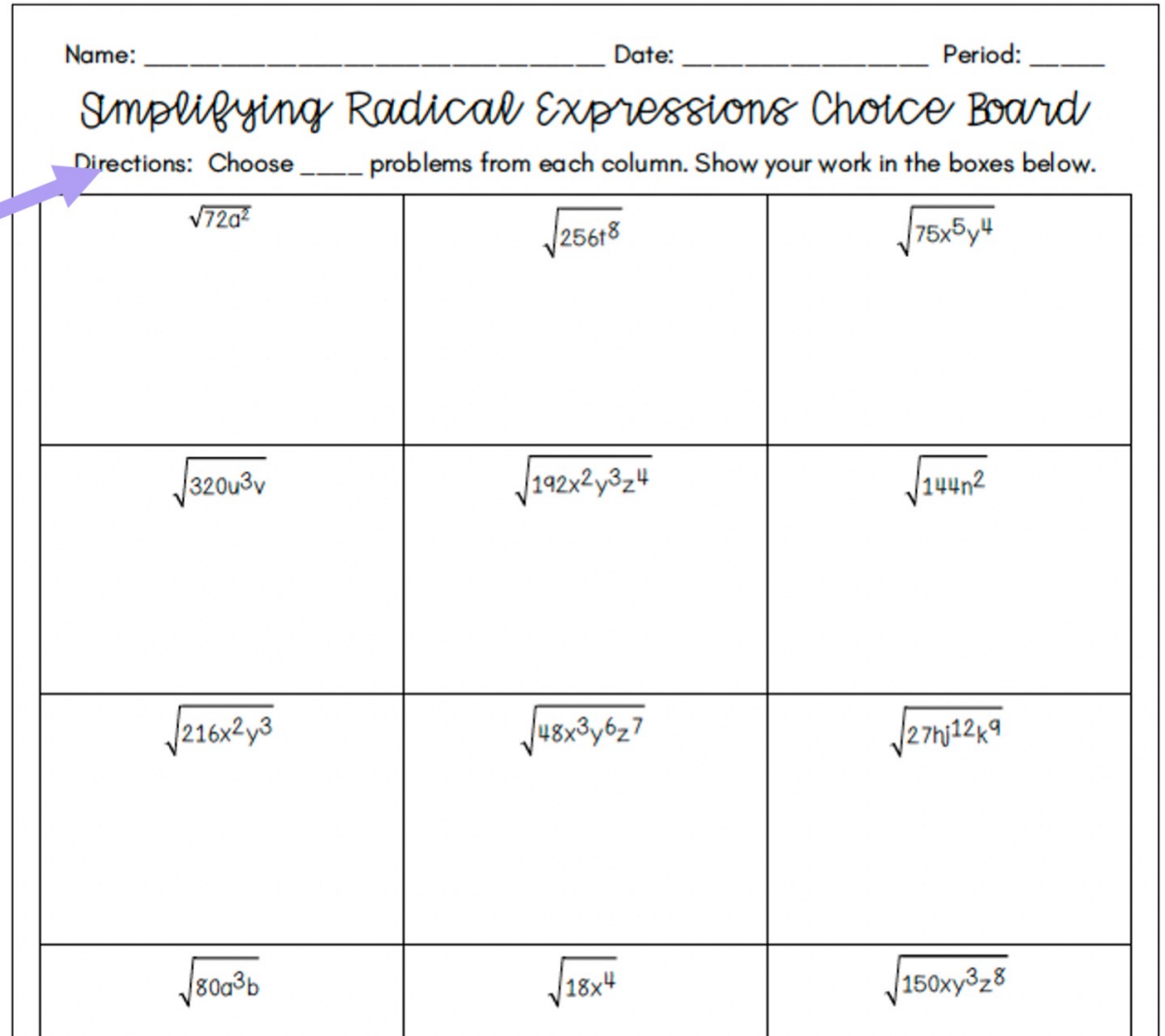
TEKs: A1.11.A

VA SOLs: EO.A.3.a



how the choice board resource works

Assign students the number of problems they need to complete from each column.



Name: _____ Date: _____ Period: _____

Simplifying Radical Expressions Choice Board

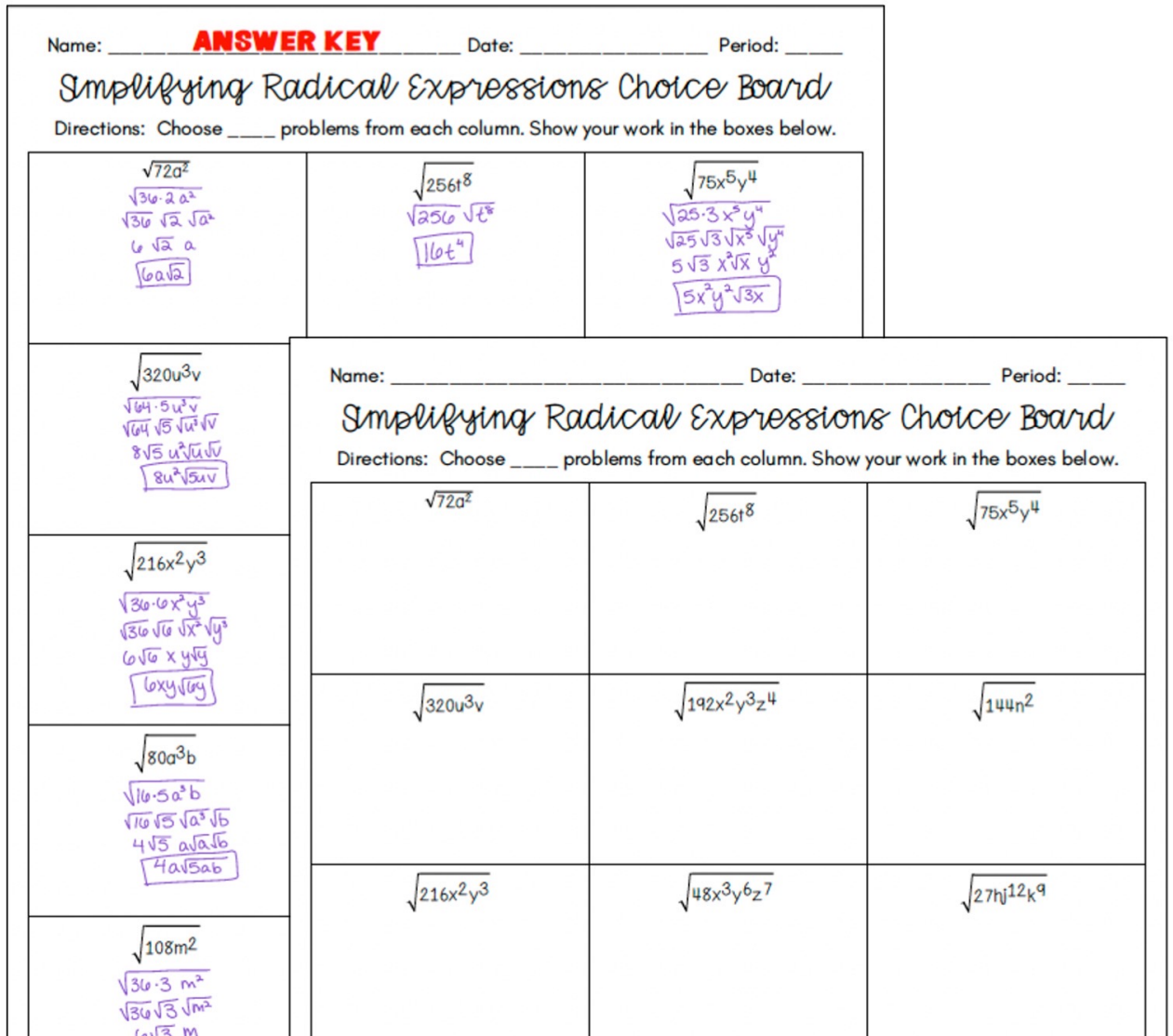
Directions: Choose ____ problems from each column. Show your work in the boxes below.

$\sqrt{72a^2}$	$\sqrt{256t^8}$	$\sqrt{75x^5y^4}$
$\sqrt{320u^3v}$	$\sqrt{192x^2y^3z^4}$	$\sqrt{144n^2}$
$\sqrt{216x^2y^3}$	$\sqrt{48x^3y^6z^7}$	$\sqrt{27hj^{12}k^9}$
$\sqrt{80a^3b}$	$\sqrt{18x^4}$	$\sqrt{150xy^3z^8}$

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



Name: ANSWER KEY Date: _____ Period: _____

Simplifying Radical Expressions Choice Board

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

$\sqrt{72a^2}$ $\sqrt{36 \cdot 2a^2}$ $\sqrt{36}\ \sqrt{2}\ \sqrt{a^2}$ $6\sqrt{2}\ a$ $6a\sqrt{2}$	$\sqrt{256t^8}$ $\sqrt{256}\ \sqrt{t^8}$ $16t^4$	$\sqrt{75x^5y^4}$ $\sqrt{25 \cdot 3\, x^5 y^4}$ $\sqrt{25}\sqrt{3}\sqrt{x^5}\sqrt{y^4}$ $5\sqrt{3}\ x^2\sqrt{x}\ y^2$ $5x^2y^2\sqrt{3x}$
$\sqrt{320u^3v}$ $\sqrt{64 \cdot 5u^2v}$ $\sqrt{64}\ \sqrt{5}\ \sqrt{u^2}\sqrt{v}$ $8\sqrt{5}\ u^2\sqrt{v}$ $8u^2\sqrt{5v}$		
$\sqrt{216x^2y^3}$ $\sqrt{36 \cdot 6x^2y^3}$ $\sqrt{36}\sqrt{6}\ \sqrt{x^2}\sqrt{y^3}$ $6\sqrt{6}\ x\ y\sqrt{y}$ $6xy\sqrt{6y}$		
$\sqrt{80a^3b}$ $\sqrt{16 \cdot 5a^3b}$ $\sqrt{16}\sqrt{5}\ \sqrt{a^3}\sqrt{b}$ $4\sqrt{5}\ a\sqrt{a}\sqrt{b}$ $4a\sqrt{5ab}$		
$\sqrt{108m^2}$ $\sqrt{36 \cdot 3\ m^2}$ $\sqrt{36}\sqrt{3}\ \sqrt{m^2}$ $6\sqrt{3}\ m$		

Name: _____ Date: _____ Period: _____

Simplifying Radical Expressions Choice Board

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

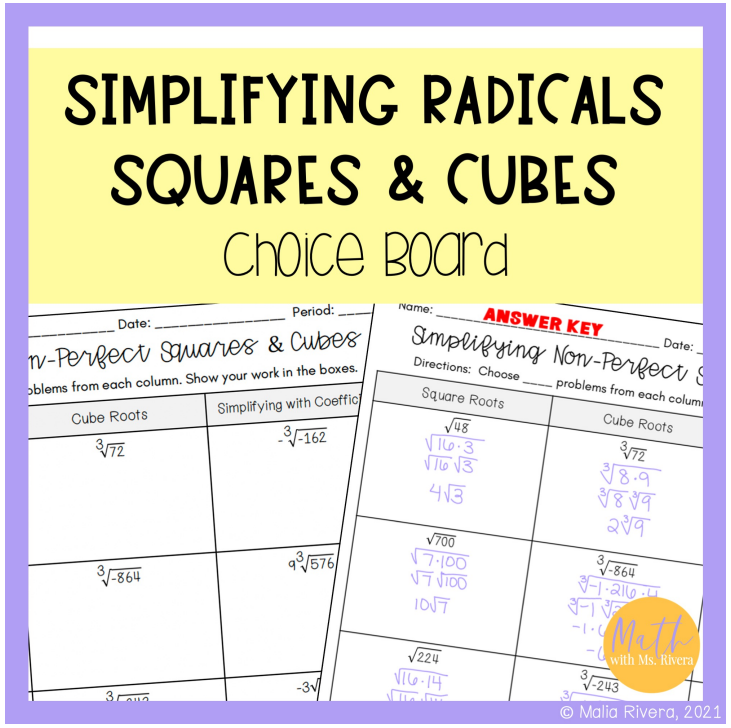
$\sqrt{72a^2}$	$\sqrt{256t^8}$	$\sqrt{75x^5y^4}$
$\sqrt{320u^3v}$	$\sqrt{192x^2y^3z^4}$	$\sqrt{144n^2}$
$\sqrt{216x^2y^3}$	$\sqrt{48x^3y^6z^7}$	$\sqrt{27hj^{12}k^9}$

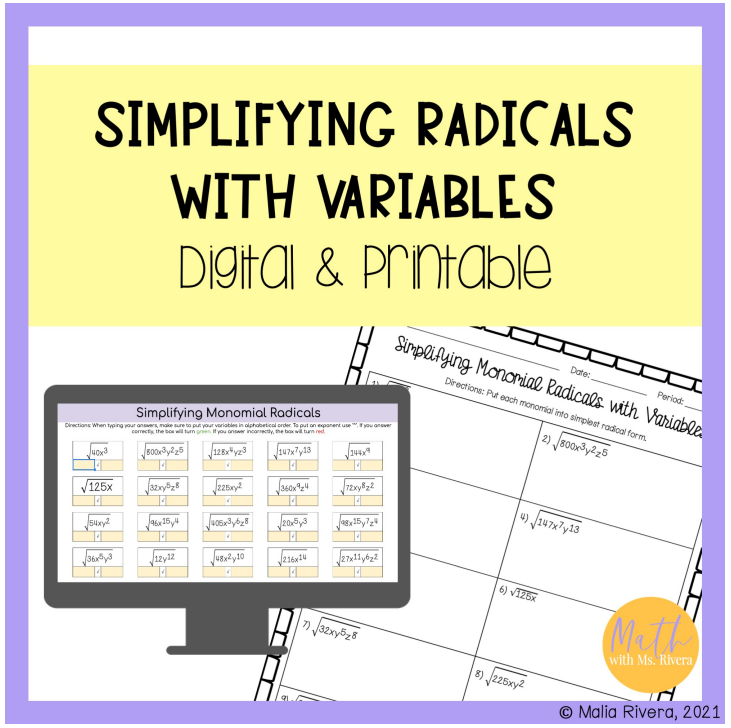
This is a great individual practice activity to use when reviewing how to simplify square root radical expressions with variables.

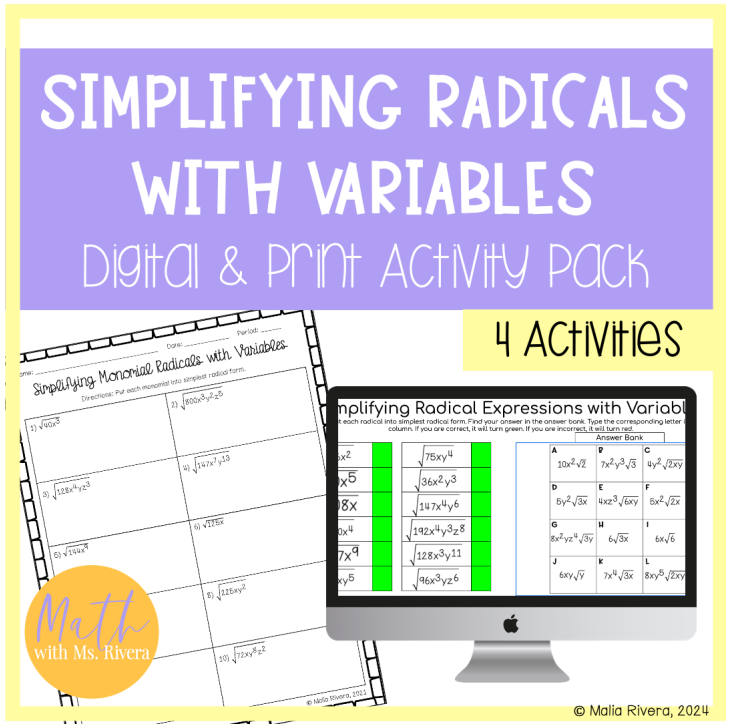
My favorite ways to use this choice board is for homework and math practice stations.

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

You may also *enjoy*...







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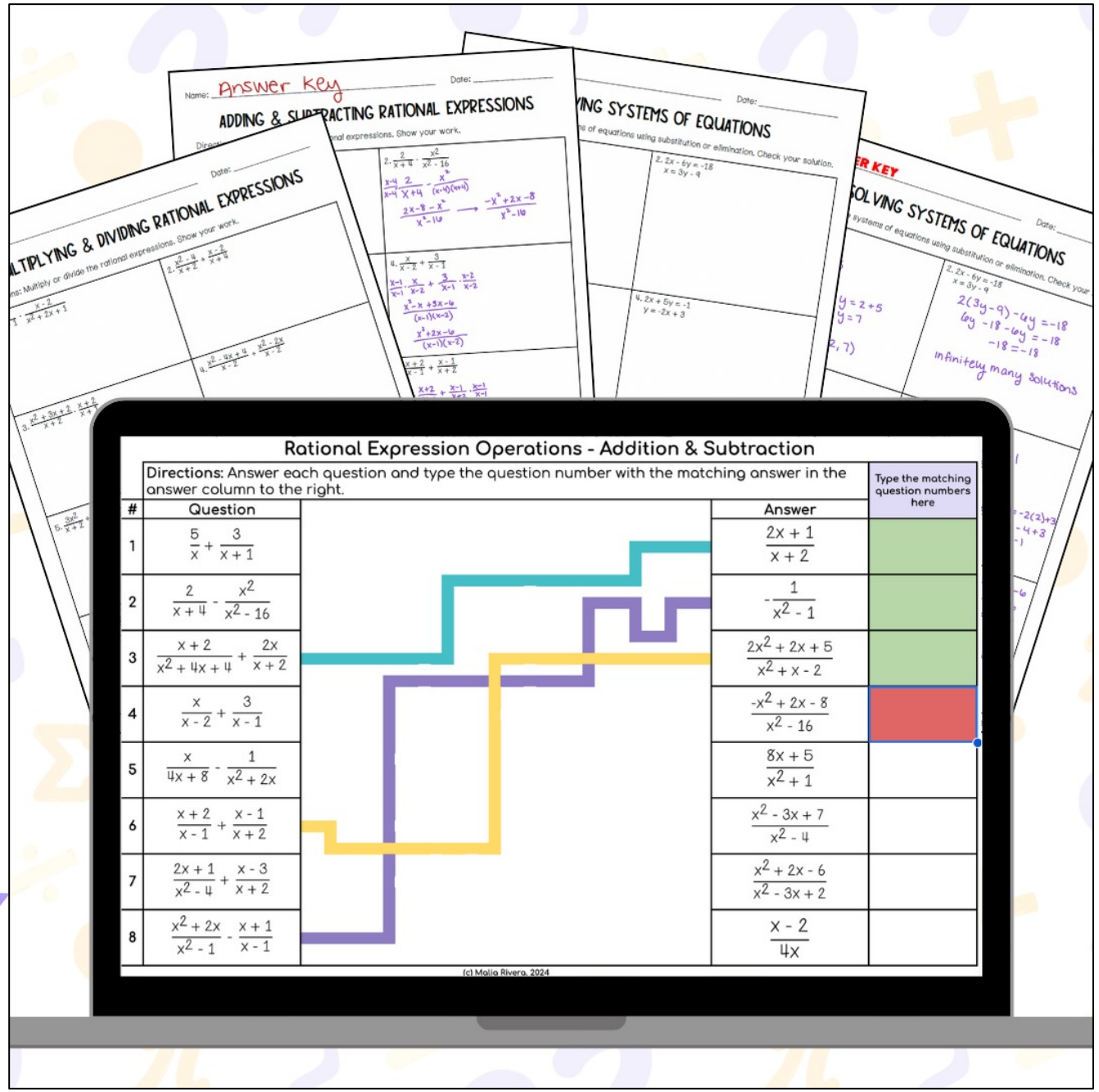
check it out!



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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