

keep scrolling to get
a sneak peek!

Help your Algebra 2 students
practice performing
**operations with radical
expressions.** Your students
will benefit from being given a
fun Thanksgiving themed
activity to practice math while
they have break on their brain!

OPERATIONS WITH RADICALS

Thanksgiving Maze Worksheet

Name: _____ Date: _____

RADICAL OPERATIONS MAZE

Directions: Answer the question in the box that says "start". The answer will lead you to the next question. Keep answering the questions until you reach the "finish" box. If you don't see your answer, try again!

Name: **ANSWER KEY**

RADICAL OPERATIONS MAZE

Directions: Answer the question in the box that says "start". The answer will lead you to the next question. Keep answering the questions until you reach the "finish" box. If you don't see your answer, try again!

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Recording Sheet & Detailed Answer Key

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Why do you need this?



Providing feedback with self-checking activities will engage students to keep practicing!



Incorporate a Thanksgiving themed activity with your students WHILE mastering key Algebraic skills!

Operations with Radicals Thanksgiving Maze

Name: _____ Date: _____

Directions: Answer the question in the box that says "start". The answer will lead you to the next question. Keep answering the questions until you reach the "finish" box. If you don't see your answer, try again!

Start
 $(2\sqrt{3})(\sqrt{12})$

$2\sqrt{19}$

$\sqrt{50} + 3\sqrt{8} + \sqrt{18}$

12

$4\sqrt{3}$

$4\sqrt{2}$

$1 - \sqrt{15}$

$(\sqrt{5} + 2)(\sqrt{5} - 3)$

$4\sqrt{2}$

$8\sqrt{2} + 3\sqrt{3}$

12

$4\sqrt{2}$

$14\sqrt{2}$

$5 - \sqrt{3}$

$2 + \sqrt{3}$

$10 - 3\sqrt{2}$

$1 - \sqrt{15}$

$(\sqrt{5} + 2)(\sqrt{5} - 3)$

-1

$6\sqrt{2}$

$8\sqrt{2} + 3\sqrt{3}$

12

$1\sqrt{3}$

$1 - \sqrt{15}$

$2\sqrt{20} - 3\sqrt{45} + \sqrt{80}$

$\sqrt{18} + \sqrt{27} + \sqrt{50}$

$\sqrt{95}$

$2\sqrt{20} - 3\sqrt{45} + \sqrt{80}$

$-1\sqrt{5}$

Operations with Radicals Thanksgiving Maze

skills used:

Adding, subtracting, multiplying, and dividing radical expressions.
Conjugates & rationalizing the denominator.

standards covered:

CCSS: HSN-RN.A.2

TEKs: A1.11

VA SOLs: EO.A.3.a

Name: _____ Date: _____

Directions: Answer the question in the box that says "start". The answer will lead you to the next question. Keep answering the questions until you reach the "finish" box. If you don't see your answer, try again!

RADICAL OPERATIONS MAZE

Start
 $(2\sqrt{3})(\sqrt{12})$

$2\sqrt{19}$

$\sqrt{50} + 3\sqrt{8} + \sqrt{18}$

$14\sqrt{2}$

$\frac{5}{2 + \sqrt{3}}$

12

$4\sqrt{3}$

$\frac{4\sqrt{6}}{\sqrt{3}}$

$-1 - \sqrt{5}$

$10 - 5\sqrt{3}$

$10 - 5\sqrt{3}$

$4\sqrt{2}$

$(\sqrt{5} + 2)(\sqrt{5} - 3)$

$10 - 5\sqrt{3}$

$\frac{5}{2 + \sqrt{3}}$

how to use this resource

This is a great individual practice activity to use when reviewing how to add, subtract, multiply, and divide radical expressions.

My favorite ways to use this maze worksheet is as a review station in November.

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

Name: **ANSWER KEY** Date: _____

RADICAL OPERATIONS MAZE RECORDING SHEET

1. $(2\sqrt{3})(\sqrt{12})$ $2\sqrt{36}$ $2 \cdot 6$ 12	2. $\frac{4\sqrt{6}}{\sqrt{3}}$ $4\sqrt{\frac{6}{3}}$ $4\sqrt{2}$
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Name: _____ Date: _____

RADICAL OPERATIONS MAZE

Directions: Answer the question in the box that says "start". The answer will lead you to the next question. Keep answering the questions until you reach the "finish" box. If you don't see your answer, try again!

5. $\frac{5}{2+\sqrt{3}} \cdot \frac{2-\sqrt{3}}{2-\sqrt{3}}$
 $\frac{10-5\sqrt{3}}{4-3}$
 $10-5\sqrt{3}$

You may also enjoy ...

RADICAL OPERATIONS

Algebra 2 Guided Notes

RADICAL OPERATIONS

You can only add and subtract like radicals. This is when a radical has the same index and radicand.

Simplify each expression completely.

$\sqrt{6} + 3\sqrt{6} = 4\sqrt{6}$

$2(\sqrt{10})^2 + 3(\sqrt{10})^2 = 2\sqrt{10} + 3\sqrt{10} = 5\sqrt{10}$

$\sqrt{8} + \sqrt{5} = 2\sqrt{2} + \sqrt{5}$

Properties of Radical Expressions

Property	Definition
Product Property	$\sqrt{a \cdot b} = \sqrt{a} \cdot \sqrt{b}$
Quotient Property	$\sqrt{\frac{a}{b}} = \frac{\sqrt{a}}{\sqrt{b}}$

Directions: Write the expression in simplest radical form.

1. $\frac{4}{\sqrt{2}}$

2. $\frac{3\sqrt{7}}{\sqrt{14}}$

3. $\frac{1}{3 + \sqrt{6}}$

Answer key included

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RADICAL OPERATIONS

Digital & Print Activity Pack

5 Activities

Multiplying Radical Expressions

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

Problem	Answer
$\sqrt{5} \cdot \sqrt{11}$	$\sqrt{55}$
$\sqrt{28}(\sqrt{2} + 5\sqrt{10})$	$2\sqrt{7} + 14\sqrt{5}$
$\sqrt{15} \cdot 2\sqrt{10}$	$2\sqrt{150}$
$4\sqrt{2}(3 + 5\sqrt{6})$	$12\sqrt{2} + 20\sqrt{12}$
$\sqrt{8}(\sqrt{3} + \sqrt{18})$	$2\sqrt{24} + 6\sqrt{36}$
$\sqrt{5}(\sqrt{5} + 3)$	$5 + 3\sqrt{5}$
$-4\sqrt{6} \cdot 5\sqrt{10}$	$-20\sqrt{60}$
$3\sqrt{18} + \sqrt{50}$	$6\sqrt{2} + 5\sqrt{2}$
$-4\sqrt{6}(4 + 3\sqrt{6})$	$-16\sqrt{6} - 72$
$3\sqrt{3}(11 - 5\sqrt{3})$	$33\sqrt{3} - 45$

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RADICALS

Algebra I

None	Choose	Cube Roots	Adding	Subtracting
None	$\sqrt{6} \cdot \sqrt{3}$	$\sqrt[3]{12}$	$\sqrt{6} + \sqrt{64}$	$\sqrt{3} - \sqrt{18}$
None	$\sqrt{5} \cdot \sqrt{2}$	$\sqrt[3]{-804}$	$\sqrt{250} + \sqrt{40}$	$\sqrt{72} - \sqrt{32}$
None	$\sqrt{10} \cdot \sqrt{60}$	$\sqrt[3]{-203}$	$5\sqrt{6} + 4\sqrt{54}$	$-2\sqrt{75} - 2\sqrt{27}$
None	$\sqrt{6} \cdot \sqrt{21}$	$\sqrt[3]{8}$	$\sqrt{24} + \sqrt{150} + \sqrt{5}$	$3\sqrt{20} - 3\sqrt{7}$
None	$-3\sqrt{70} \cdot \sqrt{10}$	$\sqrt[3]{125}$	$4\sqrt{7} + 3\sqrt{32} + 3\sqrt{112}$	$-4\sqrt{10} - 2\sqrt{5}$
None	$-2\sqrt{15} \cdot 2\sqrt{20}$	$\sqrt[3]{125}$		
None	$3\sqrt{2} \cdot 2\sqrt{3}$			

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Free Algebra Activities!

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

check it out!

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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