*keep scrolling* to get a sneak peek!

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

# SIMPLIFYING RADICALS CUBE ROOTS
## Choice Board

Date: _____

Simplifying Non-Perfect Cubes

...ose _____ problems from each column. Show your work i...

$$\sqrt[3]{192}$$

$$\sqrt[3]{-243}$$

$$\sqrt[3]{576}$$

Name: _____   Date: _____

Simplifying Non-Perf...

Directions: Choose _____ problems from each colum...

$$\sqrt[3]{54}$$
$$\sqrt[3]{27 \cdot 2}$$
$$\sqrt[3]{27} \cdot \sqrt[3]{2}$$
$$3\sqrt[3]{2}$$

$$\sqrt[3]{-1080}$$
$$\sqrt[3]{-1 \cdot 216 \cdot 5}$$
$$\sqrt[3]{-1} \cdot \sqrt[3]{216} \cdot \sqrt[3]{5}$$
$$-1 \cdot 6\sqrt[3]{5}$$
$$-6\sqrt[3]{5}$$

$$\sqrt[3]{2000}$$
$$\sqrt[3]{2 \cdot 1000}$$
$$\sqrt[3]{2} \cdot \sqrt[3]{1000}$$

$$\sqrt[3]{192}$$
$$\sqrt[3]{64 \cdot 3}$$
$$\sqrt[3]{64} \cdot \sqrt[3]{3}$$
$$4\sqrt[3]{3}$$

$$\sqrt[3]{-243}$$
$$\sqrt[3]{-1 \cdot 27 \cdot 9}$$
$$\sqrt[3]{-1} \cdot \sqrt[3]{27} \cdot \sqrt[3]{9}$$
$$-1 \cdot 3 \ldots$$
$$-3 \ldots$$

$$\sqrt[3]{57\ldots}$$
$$\sqrt[3]{64 \cdot 9}$$

Math with Ms. Rivera

# why do you need this?

# Simplifying Non-Perfect Cube Roots Choice Board

✏️ 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 Cube Roots Choice Board *includes:*

Name:_____

### Simplifying Non-Perfect Cubes

Date:_____

Period:_____

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

$\sqrt[3]{54}$

$\sqrt[3]{192}$

$\sqrt[3]{32}$

$\sqrt[3]{-1080}$

$\sqrt[3]{-243}$

$\sqrt[3]{-135}$

$\sqrt[3]{2000}$

$\sqrt[3]{576}$

$\sqrt[3]{128}$

✅ 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

# Simplify Non-Perfect Cubes Choice Board

standards covered:

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

**TEKs:** A1.11.A

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

Name: _____

**ANSWER KEY**

Date: _____

Period: _____

## Simplifying Non-Perfect Cubes

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

$\sqrt[3]{54}$

$\sqrt[3]{27 \cdot 2}$

$\sqrt[3]{27} \cdot \sqrt[3]{2}$

$3\sqrt[3]{2}$

$\sqrt[3]{192}$

$\sqrt[3]{64 \cdot 3}$

$\sqrt[3]{64} \cdot \sqrt[3]{3}$

$4\sqrt[3]{3}$

$\sqrt[3]{32}$

$\sqrt[3]{8 \cdot 4}$

$\sqrt[3]{8} \cdot \sqrt[3]{4}$

$2\sqrt[3]{4}$

$\sqrt[3]{-1080}$

$\sqrt[3]{-1 \cdot 216 \cdot 5}$

$\sqrt[3]{-1} \cdot \sqrt[3]{216} \cdot \sqrt[3]{5}$

$-1 \cdot 6\sqrt[3]{5}$

$-6\sqrt[3]{5}$

$\sqrt[3]{-243}$

$\sqrt[3]{-1 \cdot 27 \cdot 9}$

$\sqrt[3]{-1} \cdot \sqrt[3]{27} \cdot \sqrt[3]{9}$

$-1 \cdot 3\sqrt[3]{9}$

$-3\sqrt[3]{9}$

$\sqrt[3]{-135}$

$\sqrt[3]{-1 \cdot 27 \cdot 5}$

$\sqrt[3]{-1} \cdot \sqrt[3]{27} \cdot \sqrt[3]{5}$

$-1 \cdot 3\sqrt[3]{5}$

$-3\sqrt[3]{5}$

$\sqrt[3]{2000}$

$\sqrt[3]{2 \cdot 1000}$

$\sqrt[3]{2} \cdot \sqrt[3]{1000}$

$10\sqrt[3]{2}$

$\sqrt[3]{576}$

$\sqrt[3]{64 \cdot 9}$

$\sqrt[3]{64} \cdot \sqrt[3]{9}$

$\sqrt[3]{128}$

$\sqrt[3]{64 \cdot 2}$

# how the choice board resource works

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.

Name: _____ Date: _____ Period: _____

## Simplifying Non-Perfect Cubes

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

| $\sqrt[3]{54}$ | $\sqrt[3]{192}$ | $\sqrt[3]{32}$ |
|---|---|---|
| $\sqrt[3]{-1080}$ | $\sqrt[3]{-243}$ | $\sqrt[3]{-135}$ |
| $\sqrt[3]{2000}$ | $\sqrt[3]{576}$ | $\sqrt[3]{128}$ |
| $-8\sqrt[3]{144}$ | $-13\sqrt[3]{648}$ | $-6\sqrt[3]{320}$ |

# how to use this resource

This is a great individual practice activity to use when reviewing how to simplify non-perfect cube root radicals.

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

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

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Name: _____ **ANSWER KEY** _____ Date: _____ Period: _____

## Simplifying Non-Perfect Cubes

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

| $\sqrt[3]{54}$ | $\sqrt[3]{192}$ | $\sqrt[3]{32}$ |
|---|---|---|
| $\sqrt[3]{27 \cdot 2}$ <br> $\sqrt[3]{27} \cdot \sqrt[3]{2}$ <br> $3\sqrt[3]{2}$ | $\sqrt[3]{64 \cdot 3}$ <br> $\sqrt[3]{64} \cdot \sqrt[3]{3}$ <br> $4\sqrt[3]{3}$ | $\sqrt[3]{8 \cdot 4}$ <br> $\sqrt[3]{8} \cdot \sqrt[3]{4}$ <br> $2\sqrt[3]{4}$ |

$\sqrt[3]{-1080}$
$\sqrt[3]{-1 \cdot 216 \cdot 5}$
$\sqrt[3]{-1} \cdot \sqrt[3]{216} \cdot \sqrt[3]{5}$
$-1 \cdot 6\sqrt[3]{5}$
$-6\sqrt[3]{5}$

$\sqrt[3]{2000}$
$\sqrt[3]{2 \cdot 1000}$
$\sqrt[3]{2} \cdot \sqrt[3]{1000}$
$10\sqrt[3]{2}$

$-8\sqrt[3]{144}$
$-8\sqrt[3]{8 \cdot 18}$
$-8\sqrt[3]{8} \cdot \sqrt[3]{18}$
$-8 \cdot 2\sqrt[3]{18}$
$-16\sqrt[3]{18}$

$4\sqrt[3]{1125}$
$4\sqrt[3]{125 \cdot 9}$
$4\sqrt[3]{125}\sqrt[3]{9}$

---

Name: _____ Date: _____ Period: _____

## Simplifying Non-Perfect Cubes

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

| $\sqrt[3]{54}$ | $\sqrt[3]{192}$ | $\sqrt[3]{32}$ |
|---|---|---|
| $\sqrt[3]{-1080}$ | $\sqrt[3]{-243}$ | $\sqrt[3]{-135}$ |
| $\sqrt[3]{2000}$ | $\sqrt[3]{576}$ | $\sqrt[3]{128}$ |

# You may also *enjoy* ...

## SIMPLIFYING RADICALS SQUARE ROOTS
### Choice Board

## SIMPLIFYING RADICALS SQUARES & CUBES
### Choice Board

## SIMPLIFYING RADICAL EXPRESSIONS
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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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