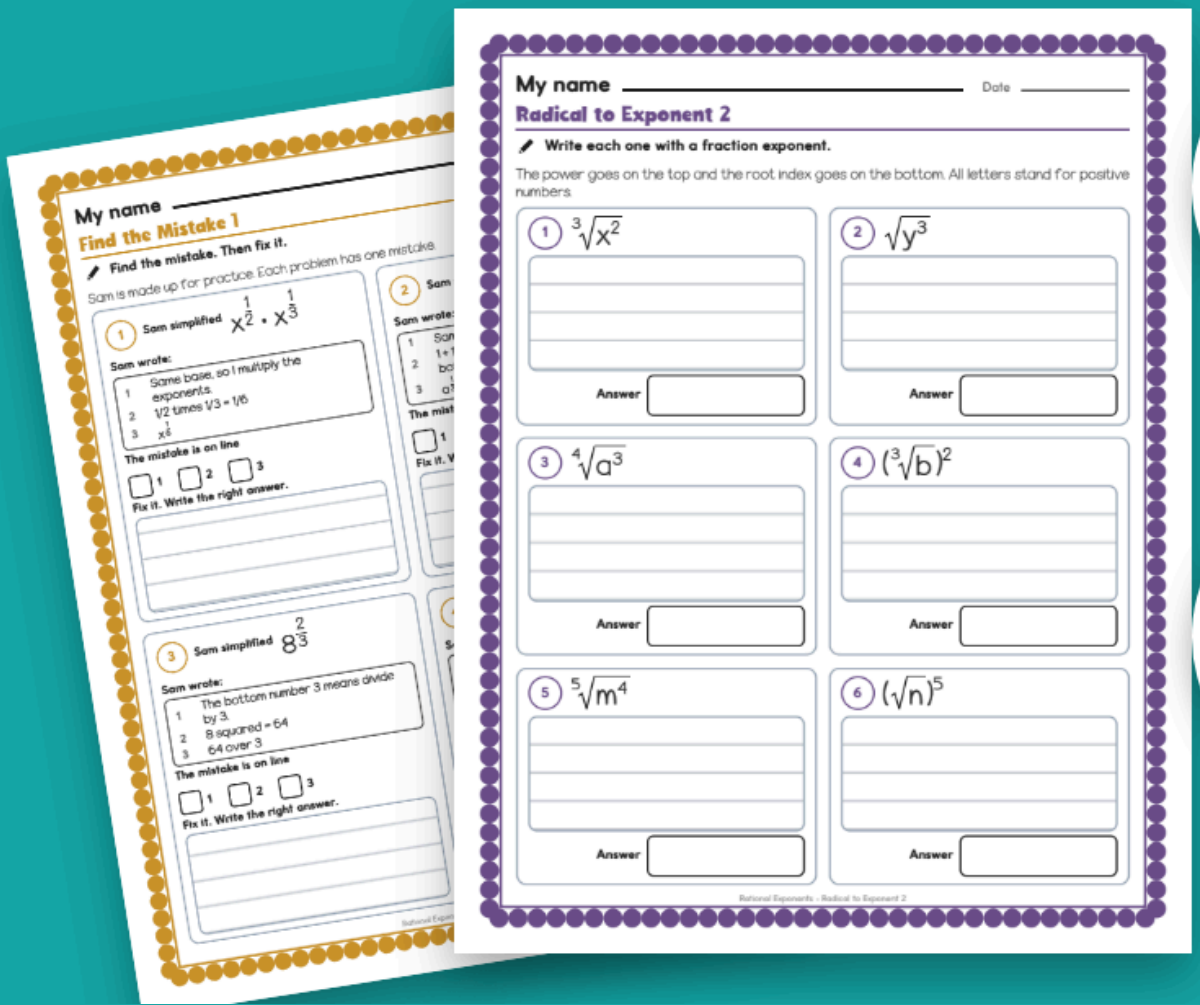
RATIONAL EXPONENTS

WORKSHEETS + GUIDED NOTES
GRADES 9-11



46 PAGES

ANSWER KEY

Bright Path Sped

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- Open it in a PDF reader (Adobe Acrobat Reader, Preview, or your browser), click into a line or a box, type, and Save As.
- The name line, every answer box, every ruled work box and every check box on the student pages are type-in fields, and so are the tracker, class grid, team note and family page. You can also print any page and write by hand.
- It works offline. No account, no subscription, no internet connection needed after you download it.

Print at 100 percent

Turn off fit to page and shrink to fit so the ruled lines stay 0.34 inch apart. Every student page is black and white inside a colored border, so it still reads when copied in black and white.

Student work

A filled-in tracker, class grid or team note carries a real student's name. Keep it in the data folder, and use a first name only on any page that leaves your hands.

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PREVIEW

How To Read a Page

The parts of a student page, then the page types in the order they come.

The parts of a page

- **The answer box.** A bordered box for the answer. Click it to type, or print and write in it.
- **The ruled work box.** Lines 0.34 inch apart for showing work. One step to a line.
- **The check box.** Which line, how sure, yes or not yet: click or mark.
- **How the problems are written.** Exponents are raised, fraction exponents are stacked, roots have a drawn root sign with its index, and a dot means times. All letters stand for positive numbers. Answers use positive exponents.
- **The cut line.** Six pieces in a 3 by 2 grid, each 2.4 by 1.25 inches, edge to edge: one cut across and two down.

Page type	What it looks like	What the student does
Guided Notes and Examples	6 pages	Six notes with a blank each, a look-for chart, four guided example pages with a guided copy each.
Radical and Exponent Form	4 pages, 24 problems	Write a root as a fraction exponent, then a fraction exponent as a root.
Find the Number	2 pages, 12 problems	A whole number to a fraction power: the root, then the power. Then negatives.
Simplify	5 pages, 30 problems	Same base, a power to a power, numbers and letters, negative exponents and radicals.
Mixed Review	2 pages, 12 problems	Two ideas in one problem, then more letters.
Find the Mistake	2 pages, 8 problems	An invented student's work has one mistake. Find it and fix it.
Quizzes, Exit Tickets, Sorts	12 + 6 items, 18 pieces	Two quizzes, two exit ticket sheets, three cut-and-paste sorts.

Untimed, unscored on the page

No student page has a timer or a score on it. The keys and the tracker are for you. The answer keys are on pages 35 to 39.

Checked by number

Every answer in the keys was simplified by program and then checked by putting numbers in for the letters in the problem and in the answer. The numbers are chosen so every root comes out whole, like 64 for square, cube and sixth roots. Students can do the same to check their own work.

Printing and the type-in fields

Every page prints clean in black and white. Every name line, answer box, ruled box and check box is a type-in field in any PDF reader. This is a fillable PDF, not a slideshow or a word-processor file.

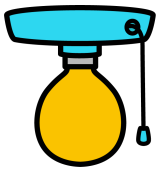
Room to work

Work boxes hold two or three lines of steps. If a student needs more room, hand over one page a day, or let students work on scrap paper and copy the answer into the box.

PREVIEW

Preview - Bright Path Sped

My name _____ Date _____



Guided Notes 1: What It Means

Read each note. Fill in the blanks.

a stands for any positive number. m, n, r and s stand for whole numbers (n is not 0). Keep this page next to you.

1. Square root

A square root is the 1/2 power.

$$a^{\frac{1}{2}} = \sqrt{a}$$

Try it: $36^{\frac{1}{2}} =$ ____

2. nth root

The bottom of the fraction is the root index.

$$a^{\frac{1}{n}} = \sqrt[n]{a}$$

Try it: $81^{\frac{1}{4}} =$ ____

3. Top and bottom

The top is the power. The bottom is the root.

$$a^{\frac{m}{n}} = \sqrt[n]{a^m}$$

As a root: $x^{\frac{3}{2}} =$ ____

4. Root and power

Root first, then the power. Or the power first. Same answer.

$$a^{\frac{m}{n}} = (\sqrt[n]{a})^m$$

Try it: $8^{\frac{2}{3}} =$ ____

5. Negative exponent

A minus sign flips it to the bottom of a fraction.

$$a^{\frac{-m}{n}} = \frac{1}{a^{\frac{m}{n}}}$$

Try it: $36^{\frac{-1}{2}} =$ ____

6. Same base

Add the exponents to multiply. Subtract them to divide.

$$a^r \cdot a^s = a^{r+s}$$

Try it: $y^{\frac{1}{3}} \cdot y^{\frac{1}{6}} =$ ____

PREVIEW

Preview - Bright Path Sped

My name _____ Date _____

Guided Examples: Radical to Exponent

Read the example. Then fill in the blanks.

Example 1: root inside: $\sqrt[3]{x^2}$

Step 1
bottom: 3
The root index is 3. It goes on the bottom of the exponent.

Step 2
top: 2
The power under the root is 2. It goes on the top of the exponent.

Step 3
$x^{\frac{2}{3}}$
Write the letter with the fraction exponent.

Example 2: power outside: $(\sqrt[4]{y})^3$

Step 1
bottom: 4
The root index is 4. It goes on the bottom of the exponent.

Step 2
top: 3
The power outside the root is 3. It goes on the top of the exponent.

Step 3
$y^{\frac{3}{4}}$
Write the letter with the fraction exponent.

Now it is your turn.

Your turn 1: root inside: $\sqrt{a^5}$

Step 1
The root index is 2 (a square root). It goes on the bottom of the exponent.

Step 2
The power under the root is 5. It goes on the top of the exponent.

Step 3
Write the letter with the fraction exponent.

Your turn 2: power outside: $(\sqrt[5]{b})^2$

Step 1
The root index is 5. It goes on the bottom of the exponent.

Step 2
The power outside the root is 2. It goes on the top of the exponent.

Step 3
Write the letter with the fraction exponent.

PREVIEW

Preview - Bright Path Sped

My name _____ Date _____

Guided Examples: Same Base

Read the example. Then fill in the blanks.

Example 1: multiply: $x^{\frac{1}{2}} \cdot x^{\frac{1}{3}}$

Step 1	1/2 + 1/3 Same base x, multiplying: add them.
Step 2	5/6 Common bottom number, then add: 1/2 + 1/3 = 5/6.
Step 3	$x^{\frac{5}{6}}$ Write the base with the new exponent.

Example 2: divide: $\frac{x^{\frac{5}{6}}}{x^{\frac{1}{3}}}$

Step 1	5/6 - 1/3 Same base x, dividing: subtract them.
Step 2	1/2 Common bottom number, then subtract: 5/6 - 1/3 = 1/2.
Step 3	$x^{\frac{1}{2}}$ Write the base with the new exponent.

Now it is your turn.

Your turn 1: multiply: $m^{\frac{3}{4}} \cdot m^{\frac{1}{2}}$

Step 1	Same base m, multiplying: add them.	
Step 2	Common bottom number, then add: 3/4 + 1/2 =	
Step 3	Write the base with the new exponent.	

Your turn 2: divide: $\frac{b^{\frac{7}{6}}}{b^{\frac{1}{2}}}$

Step 1	Same base b, dividing: subtract them.	
Step 2	Common bottom number, then subtract: 7/6 - 1/2 =	
Step 3	Write the base with the new exponent.	

PREVIEW

Preview - Bright Path Study

My name _____ Date _____

Radical to Exponent 2

Write each one with a fraction exponent.

The power goes on the top and the root index goes on the bottom. All letters stand for positive numbers.

1. $\sqrt[3]{x^2}$

Answer

2. $\sqrt{y^3}$

Answer

3. $\sqrt[4]{a^3}$

Answer

4. $(\sqrt[3]{b})^2$

Answer

5. $\sqrt[5]{m^4}$

Answer

6. $(\sqrt{n})^5$

Answer

PREVIEW

Preview - Bright Path Shed

My name _____ Date _____

Find the Number: Positive

Find the number. Show your work.

Take the root the bottom number names, then raise it to the top number.

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

Answer

2. $27^{\frac{1}{3}}$

Answer

3. $8^{\frac{2}{3}}$

Answer

4. $16^{\frac{3}{4}}$

Answer

5. $9^{\frac{3}{2}}$

Answer

6. $32^{\frac{2}{5}}$

Answer

PREVIEW

Preview - Bright Path Shed

My name _____ Date _____

Simplify: Multiply and Divide

Simplify each one. Show your work.

Same base: add the exponents to multiply, subtract them to divide. Use a common bottom number.

1 $x^{\frac{1}{2}} \cdot x^{\frac{1}{3}}$

Answer

2 $y^{\frac{3}{4}} \cdot y^{\frac{1}{4}}$

Answer

3 $\frac{a^{\frac{5}{3}}}{a^{\frac{2}{3}}}$

Answer

4 $\frac{b^{\frac{7}{2}}}{b^{\frac{1}{2}}}$

Answer

5 $m^{\frac{1}{2}} \cdot m^{\frac{1}{4}}$

Answer

6 $\frac{n^{\frac{2}{3}}}{n^{\frac{1}{6}}}$

Answer

PREVIEW

Preview - Bright Path Shed

My name _____ Date _____

Simplify: Negative Exponents

Write each answer with a positive exponent.

A negative exponent flips to the other side of the fraction bar. All letters stand for positive numbers.

1. $x^{\frac{-1}{2}}$

Answer

2. $a^{\frac{-2}{3}}$

Answer

3. $4y^{\frac{-1}{2}}$

Answer

4. $\frac{x^{\frac{1}{2}}}{x^{\frac{3}{2}}}$

Answer

5. $(b^{\frac{-1}{3}})^{6}$

Answer

6. $\frac{1}{m^{\frac{-3}{2}}}$

Answer

PREVIEW

Preview - Bright Path Shop

My name _____ Date _____

Mixed Review 1

Simplify. Use more than one idea.

Work one idea at a time. Check each step. All letters stand for positive numbers.

1 $(x^{\frac{1}{2}}x^{\frac{1}{3}})^6$

Answer

2 $(a^{\frac{2}{3}})^3 \cdot a^{\frac{1}{2}}$

Answer

3 $\dfrac{(8b^3)^{\frac{2}{3}}}{b}$

Answer

4 $\sqrt{m^3}\, m^{\frac{-1}{2}}$

Answer

5 $\sqrt[3]{x^2}\, x^{\frac{1}{3}}$

Answer

6 $\dfrac{(y^{\frac{3}{4}})^{\frac{2}{3}}}{y^{\frac{1}{6}}}$

Answer

PREVIEW

Preview - Bright Path Sped

My name _____ Date _____

Find the Mistake 2

Find the mistake. Then fix it.

Sam is made up for practice. Each problem has one mistake.

1 **Sam simplified** $\sqrt[3]{x^2}$

Sam wrote:

1. The index is 3 and the power is 2.
2. The index goes on top. The power goes on the bottom.
3. $x^{\frac{3}{2}}$

The mistake is on line

☐ 1 ☐ 2 ☐ 3

Fix it. Write the right answer.

2 **Sam simplified** $x^{\frac{-1}{2}}$

Sam wrote:

1. A minus sign means the answer is negative.
2. Minus x to the 1/2 power
3. $-x^{\frac{1}{2}}$

The mistake is on line

☐ 1 ☐ 2 ☐ 3

Fix it. Write the right answer.

3 **Sam simplified** $(x^{\frac{2}{3}})^3$

Sam wrote:

1. A power to a power: add the exponents.
2. 2/3 + 3 = 2/3 + 9/3 = 11/3
3. $x^{\frac{11}{3}}$

The mistake is on line

☐ 1 ☐ 2 ☐ 3

Fix it. Write the right answer.

4 **Sam simplified** $(9x^4)^{\frac{1}{2}}$

Sam wrote:

1. x: 4 times 1/2 = 2
2. A 1/2 power of 9 is half of 9, so 9/2
3. $9/2\ x^2$

The mistake is on line

☐ 1 ☐ 2 ☐ 3

Fix it. Write the right answer.

PREVIEW

My name _____ Date _____

Quiz A

Simplify each one. Show your work.

Take your time. Show your work in the box. All letters stand for positive numbers.

1. $\sqrt[3]{x^2}$

Answer

2. $8^{\frac{2}{3}}$

Answer

3. $49^{\frac{-1}{2}}$

Answer

4. $m^{\frac{1}{6}} \cdot m^{\frac{1}{3}}$

Answer

5. $(b^{\frac{3}{4}})^4$

Answer

6. $(9n^6)^{\frac{1}{2}}$

Answer

PREVIEW

Preview - Bright Path Sped

My name _____ Date _____

Exit Tickets 1

Simplify. Tell how sure you are.

Exit ticket 1 $\sqrt[4]{x^3}$

Answer

How sure am I? ☐ sure ☐ kind of sure ☐ not sure

Exit ticket 2 $27^{\frac{2}{3}}$

Answer

How sure am I? ☐ sure ☐ kind of sure ☐ not sure

Exit ticket 3 $x^{\frac{1}{2}} \cdot x^{\frac{1}{6}}$

Answer

How sure am I? ☐ sure ☐ kind of sure ☐ not sure

PREVIEW

Preview - Bright Path Sped

My name _____ Date _____

Cut and Paste 2

Cut out the six pieces. Paste each one in the right box.

Work out the number each piece equals. Paste it in the matching box.

4	$\frac{1}{4}$	8

Cut on the dashed lines: six pieces, one cut across and two cuts down.

$16^{\frac{3}{4}}$	$64^{\frac{1}{3}}$	$16^{\frac{-1}{2}}$
$4^{\frac{3}{2}}$	$16^{\frac{1}{2}}$	$64^{\frac{-1}{3}}$

Pick one piece. Show the root and the power.

PREVIEW

My name _____ Date _____

Check My Own Work

Check your own work. Mark yes or not yet.

1	I can write a root as a fraction exponent.	☐ yes	☐ not yet
2	I can write a fraction exponent as a root.	☐ yes	☐ not yet
3	I know the bottom of the exponent is the root index.	☐ yes	☐ not yet
4	I know the top of the exponent is the power.	☐ yes	☐ not yet
5	I can find the number for a whole number to a fraction power.	☐ yes	☐ not yet
6	I can rewrite a negative exponent with a positive one.	☐ yes	☐ not yet
7	I can use the exponent rules with fraction exponents.	☐ yes	☐ not yet
8	I can check my answer by trying a number that works.	☐ yes	☐ not yet

The kind of problem I can do now is...

The kind I still need help with is...

PREVIEW

Answer Key: Simplify

Pages 17 to 21. Every answer is written with a positive exponent, a whole number or a fraction. Accept a correct answer in an equal form, such as the root of a power for a fraction exponent.

Item	Problem	Answer
p17 #1	$x^{\frac{1}{2}} \cdot x^{\frac{1}{3}}$	$x^{\frac{5}{6}}$
p17 #2	$y^{\frac{3}{4}} \cdot y^{\frac{1}{4}}$	y
p17 #3	$\frac{a^{\frac{5}{3}}}{a^{\frac{2}{3}}}$	a
p17 #4	$\frac{b^{\frac{7}{2}}}{b^{\frac{1}{2}}}$	b^3
p17 #5	$m^{\frac{1}{2}} \cdot m^{\frac{1}{4}}$	$m^{\frac{3}{4}}$
p17 #6	$\frac{n^{\frac{2}{3}}}{n^{\frac{1}{6}}}$	$n^{\frac{1}{2}}$
p18 #1	$(x^{\frac{2}{3}})^3$	x^2
p18 #2	$(a^{\frac{1}{2}})^4$	a^2
p18 #3	$(y^6)^{\frac{1}{3}}$	y^2
p18 #4	$(b^8)^{\frac{3}{4}}$	b^6
p18 #5	$(m^{\frac{3}{2}})^{\frac{2}{3}}$	m
p18 #6	$(n^{\frac{3}{4}})^{\frac{2}{3}}$	$n^{\frac{1}{2}}$
p19 #1	$(16x^4)^{\frac{1}{2}}$	$4x^2$
p19 #2	$(27a^6)^{\frac{2}{3}}$	$9a^4$
p19 #3	$(4y^{\frac{1}{2}})^2$	$16y$
p19 #4	$(81b^8)^{\frac{1}{4}}$	$3b^2$
p19 #5	$(8m^3)^{\frac{-1}{3}}$	$\frac{1}{2m}$
p19 #6	$(x^{\frac{1}{2}}y^{\frac{1}{3}})^6$	x^3y^2
p20 #1	$x^{\frac{-1}{2}}$	$\frac{1}{x^{\frac{1}{2}}}$
p20 #2	$a^{\frac{-2}{3}}$	$\frac{1}{a^{\frac{2}{3}}}$
p20 #3	$4y^{\frac{-1}{2}}$	$\frac{4}{y^{\frac{1}{2}}}$
p20 #4	$\frac{x^{\frac{1}{2}}}{x^{\frac{3}{2}}}$	$\frac{1}{x}$
p20 #5	$(b^{\frac{-1}{3}})^6$	$\frac{1}{b^2}$
p20 #6	$\frac{1}{m^{\frac{-3}{2}}}$	$m^{\frac{3}{2}}$
p21 #1	$\sqrt{x^6}$	x^3
p21 #2	$\sqrt[3]{27y^6}$	$3y^2$
p21 #3	$\sqrt{16a^4}$	$4a^2$
p21 #4	$\sqrt{x}\,\sqrt[3]{x}$	$x^{\frac{5}{6}}$
p21 #5	$\frac{\sqrt{b^3}}{\sqrt{b}}$	b
p21 #6	$\sqrt[3]{x^2}\,\sqrt[3]{x^4}$	x^2

PREVIEW

Answer Key: Mistakes and Sorts

The student in each Find the Mistake problem is invented. Line numbers count the first thing Sam wrote as line 1. Sort pieces are named by their row and column in the cutting grid, left to right and top to bottom.

Item	Problem	Mistake	What went wrong	Right answer
p24 #1	$x^{\frac{1}{2}} \cdot x^{\frac{1}{3}}$	Line 1	Sam multiplied the exponents. For a product of the same base, add them: 1/2 + 1/3 = 3/6 + 2/6 = 5/6.	$x^{\frac{5}{6}}$
p24 #2	$a^{\frac{1}{4}} \cdot a^{\frac{1}{2}}$	Line 2	Sam added the tops and the bottoms. Use a common bottom number first: 1/4 + 2/4 = 3/4.	$a^{\frac{3}{4}}$
p24 #3	$8^{\frac{2}{3}}$	Line 1	The bottom number is a root, not a divisor. The cube root of 8 is 2, and 2 squared is 4.	4
p24 #4	$16^{\frac{1}{2}}$	Line 1	A 1/2 power is a square root, not half. The square root of 16 is 4.	4
p25 #1	$\sqrt[3]{x^2}$	Line 2	Sam flipped the fraction. The index goes on the bottom and the power on the top: x to the 2/3.	$x^{\frac{2}{3}}$
p25 #2	$x^{\frac{-1}{2}}$	Line 1	A negative exponent does not make the answer negative. It flips the power to the bottom of a fraction: 1 over x to the 1/2.	$\frac{1}{x^{\frac{1}{2}}}$
p25 #3	$(x^{\frac{2}{3}})^3$	Line 1	Sam added the exponents. For a power to a power, multiply them: 2/3 times 3 = 2.	x^2
p25 #4	$(9x^4)^{\frac{1}{2}}$	Line 2	A 1/2 power is a square root, not half. The square root of 9 is 3, so the answer is 3x squared.	$3x^2$

Cut and Paste 1 page 31

Piece	Expression	Box
r1 c1	$\sqrt[3]{x^2}$	$x^{\frac{2}{3}}$
r1 c2	$\sqrt{x^3}$	$x^{\frac{3}{2}}$
r1 c3	$\sqrt[4]{x^2}$	$x^{\frac{1}{2}}$
r2 c1	$(\sqrt[3]{x})^2$	$x^{\frac{2}{3}}$
r2 c2	$(\sqrt{x})^3$	$x^{\frac{3}{2}}$
r2 c3	$\sqrt{x}$	$x^{\frac{1}{2}}$

Cut and Paste 2 page 32

Piece	Expression	Box
r1 c1	$16^{\frac{3}{4}}$	8
r1 c2	$64^{\frac{1}{3}}$	4
r1 c3	$16^{\frac{-1}{2}}$	$\frac{1}{4}$
r2 c1	$4^{\frac{3}{2}}$	8
r2 c2	$16^{\frac{1}{2}}$	4
r2 c3	$64^{\frac{-1}{3}}$	$\frac{1}{4}$

Cut and Paste 3 page 33

Piece	Expression	Box
r1 c1	$\frac{y^{\frac{5}{6}}}{y^{\frac{1}{3}}}$	Subtract the exponents
r1 c2	$(m^{\frac{2}{3}})^3$	Multiply the exponents
r1 c3	$x^{\frac{1}{2}} \cdot x^{\frac{1}{6}}$	Add the exponents
r2 c1	$\frac{b^{\frac{3}{2}}}{b^{\frac{1}{2}}}$	Subtract the exponents
r2 c2	$a^{\frac{1}{4}} \cdot a^{\frac{1}{2}}$	Add the exponents
r2 c3	$(n^{\frac{1}{2}})^4$	Multiply the exponents

Make Your Own (page 26): what to look for

- Radical: the index goes on the bottom and the power on the top. A sample is $\sqrt[3]{x^2} = x^{\frac{2}{3}}$.
- Whole-number root: a sample is $8^{\frac{2}{3}} = 4$, because the cube root of 8 is 2 and 2 squared is 4.
- Product: the exponents add. A sample is $x^{\frac{1}{2}} \cdot x^{\frac{1}{3}} = x^{\frac{5}{6}}$. With x = 64, both sides give 32.

PREVIEW

Team Note

Use this page between team meetings or when a student moves classes, to hand off what changed without writing a note from scratch. Everything below is observable, with a blank for the number or the wording your team already uses.

Student _____ Team member _____ Date _____

Page type	Covered since last note (Y/N)	Items right	Still blank
Convert radical and exponent form			
Find the number			
Simplify			
Mixed review			
Find the mistake			
Quizzes and exit tickets			
Sorts			

What I saw (observable, not a conclusion)

- Converted ___ of ___ radicals to exponent form without a prompt.
- Simplified ___ of ___ problems (pages 17 to 21).
- Simplified ___ of ___ mixed problems (pages 22 and 23).
- Checked an answer by trying a number: yes / no / with a reminder.

Next step

- Next page or set: ___, because ___ (what you saw).
- What to try in another class or at home: ___.
- What to keep doing because it is working: ___.
- Anything for the team meeting to decide: ___ (this page records what happened, never a label or a plan).

Summary, in one or two sentences, for whoever reads this next

A filled-in line, for reference

"Converted 5 of 6 radicals to exponent form on 10/10. Next step: use the look-for chart on page 6 and circle the root index first." That is the level of detail this page is built for. It matches the filled example on page 44.

PREVIEW

Maya's Tracker (Invented Student)

Maya R. is invented; nothing on this page describes a real student. The blank tracker is on page 40.

Student	Teacher	Month
Maya R. (an invented student)	Mr. Okafor (invented)	October

Page	Page type and set	Items	Right	Date	Notes
5	Guided Notes 1: What It Means	6	5	10/6	Wrote the root index on top for one note
7	Guided Examples: Radical to Exponent	2	2	10/7	-
8	Guided Examples: Exponent to Radical	2	-	-	-
9	Guided Examples: Find the Number	2	-	-	-
10	Guided Examples: Same Base	2	-	-	-
11	Radical to Exponent 1	6	6	10/9	-
12	Radical to Exponent 2	6	5	10/10	Put the power on the bottom once
13	Exponent to Radical 1	6	6	10/13	-
14	Exponent to Radical 2	6	-	-	-
15	Find the Number: Positive	6	5	10/14	Divided 16 by 2 for the 1/2 power
16	Find the Number: Negative	6	-	-	-
17	Simplify: Multiply and Divide	6	4	10/15	Multiplied the exponents on two
18	Simplify: Power of a Power	6	-	-	-
19	Simplify: Numbers and Letters	6	-	-	-
20	Simplify: Negative Exponents	6	-	-	-
21	Simplify: Radicals	6	-	-	-
22	Mixed Review 1	6	-	-	-
23	Mixed Review 2	6	-	-	-
24	Find the Mistake 1	4	3	10/22	One fix not finished
25	Find the Mistake 2	4	-	-	-
27	Quiz A	6	-	-	-
28	Quiz B	6	-	-	-
29	Exit Tickets 1	3	-	-	-
30	Exit Tickets 2	3	-	-	-
31	Cut and Paste 1	6	-	-	-
32	Cut and Paste 2	6	-	-	-
33	Cut and Paste 3	6	-	-	-

How to read it

Maya R. has done **8 of 27** scored pages and got **36 of 42** items right with no prompt. **3** pages were all right and **5** carry a note. Every number comes from the table.

What the table points to

The lowest page is Simplify: Multiply and Divide (4 of 6). That is where the next practice goes. The 19 pages left blank are not tried yet, never wrong.

PREVIEW