

5.5 Rational Exponents

SWBAT simplify rational exponents by converting them into radicals.

Rational Exponent:

- We can rewrite expressions with rational exponents as radical expressions to help us evaluate them more easily
- The denominator of the fraction is the index (root) of your radical and the numerator is the power of the base inside the radical
- Example:**

****Fill out the chart below to refresh on our squares and cubes!****

	1	2	3	4	5	6	7	8	9	10
Square d										
Cubed										

Example 1: Simplify each expression

*Turn it into a radical. The numerator is the power of the base, and the denominator is the number in the corner of the radical!

- a) _____ a)
- b) _____ b)
- c) _____ c)
- d) _____ d)

Example 2: Write each expression as a Rational Exponent

*The numerator is the power of the base, and the denominator is the number in the corner of the square root sign!

- a) $\sqrt{x^3}$ a) $\sqrt[3]{m}$
- b) $\sqrt{5y}$ b) $\sqrt[3]{2y^2}$
- c) $(\sqrt[3]{b})^3$ c) $\sqrt{-6}$
- d) $\sqrt{a^3x^2y}$ d) $\sqrt[3]{16a^2b^5}$

Product of powers: Keep the _____ the same and _____ the exponents.

a) $(-5)^{\frac{1}{2}} \cdot (-5)^{\frac{1}{2}} \cdot (-5)^{\frac{1}{2}}$

b) $7^{\frac{1}{2}} \cdot 7^{\frac{1}{2}}$

c)

Challenge! Using rational exponents, prove the following:

Power of a power: Keep the _____ the same and _____ the exponents.

a)

b)

c)

Rational Exponents

Classwork

Name: _____

Directions: Evaluate each expression; resulting answers should not contain any radicals:

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