Rules of Exponents Guided Notes

Algebra Standards: N.RN.1

Rules of Exponents

N.RN.1 *I CAN... rewrite expressions involving rational exponents using the properties of exponents.*

vocabulary:

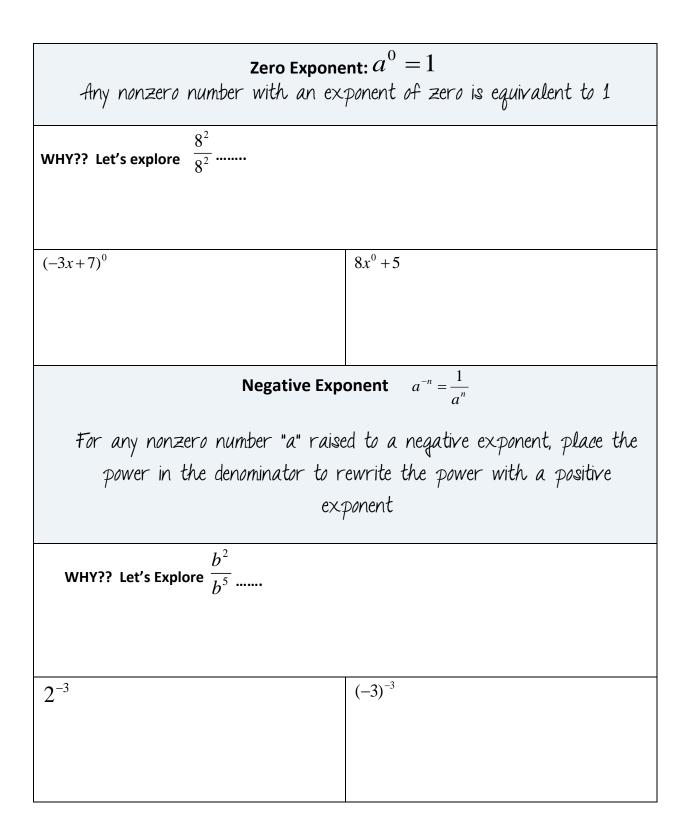
Monomial A number, a variable, or a product of a number and one or more variables Examples: 34xy, $7a^{2}b$ Power 5^{2} Exponent

rules of exponents:

Base

Product of Powers: $a^m \bullet a^n = a^{m+n}$			
If multiplying two numbers with the same base, ADD the exponents			
$5^2 \bullet 5^6$		$y^4 \bullet y^3 \bullet y$	
$(7y^5)(6y)$		$(-3x^2y^7)(5xy^6)$	
Quotient of Powers: $\frac{a^m}{a^n} = a^{m-n}$			
If dividing two numbers with the same base, SUBTRACT the exponents			
$\frac{y^6}{y}$	$\frac{6^{13}}{6^2}$		$\frac{10a^7b^9}{15a^5b^9}$

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