6.03 Multiplying and Dividing Monomials

Topics	Space to practice & Video Links
Multiplying Monomials with Mixed Variables Product of Powers rule: To _____ powers with like _____, we need to keep the base and _____ the exponents.	6.03Video1 $(3xy)(4x)$
Power of a Power Power of a Power Property: To raise a power to a_____, multiply the _____.	6.03Video2 $(x^2)^4(y^3)^7$
Power of a Product Power of a Product Property The power of a product rule states that when you're _____ a quantity and you raise the entire _____ to a power, you raise each factor to that _____.	6.03Video3 $(4x^2y^3)(2xy^4)^3$
Practice #1 Simplify the expression using the rules of exponents and multiplication of monomials. $(-2x^2y)^3(3xy^5)$	6.03Video4

Negative Exponents Negative Exponents Rule : If you have a _____ exponent, simply flip the base and exponent to the other _____ of the fraction line, to make the exponent _____. Important: An expression usually isn't considered simplified if it contains negative exponents. Your final answer should always have positive exponents.	6.03Video5 x^{-8} = $\frac{5}{x^{-7}}$ =
Quotient of Powers Quotient of Powers Rule: To divide_____ with like bases, keep the base and _____ the exponents.	6.03Video6 $\frac{20x^3}{10x^4}$=
Zero Exponents Zero ExponentsRule: Anything to the_____ power is _____ to 1.	6.03Video7 5^0 = _____ 278^0 =_____

- **Want More Practice?**

Topic	
Powers of Monomials	Try It
Division with Exponents	Try It
Multiplication & Division w/ Exponents	Try It
Expressions w/ Exponents (contains 0/- exponents)	Try It
Negative Exponents	Try It

** Laws of Exponents Foldable *** **Fun easy foldable to help review this lesson**