**Exponent Rules**

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| **Multiplying Powers / Same Base**   * Keep the base, add the exponents   Ex.  Ex. | **Power of a Power**   * Keep the base, multiply the exponents.   Ex.  Ex. |
| **Power of a Product**   * Share the exponent to each factor in the product.   Ex.  Ex. | **Quotient of Power / Same Base**   * Keep the base, subtract the exponents   Ex.  Ex. |
| **Power of a Quotient**   * Share the exponent to the numerator and the denominator.   Ex.  Ex. | **Zero Exponent**   * The zero power of any number except 0 is 1.   Ex. 80 = 1  Ex. 6m0 = 6•1 =6  Ex. (4d2)0 = 1 |
| **Negative Exponent**   * A base with a negative exponent equals the reciprocal of the base with a positive exponent.   Ex.  Ex. 5n-6 = | |