Exponent Laws and Properties

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| Property | Definition | Example | Example |
| Zero Property | When the exponent is ***zero****…* | X0=1 | 30=1 |
| Negative Integer Exponents | When the exponent ***negative*** *number…* | x-a= 1/xa | 3-3= 1/27 |
| Identity Property | When the exponent is ***one****…* | X1 | 71= 7 |
| Multiplying Exponents | When ***multiplying***terms with exponents… | (xa)(xb)= xa+b | 54 \* 53= 57 |
| Dividing Exponents | When ***dividing*** terms with exponents… | xa /xb= xa-b | 76 / 74= 72 |
| Power to a Power  \*\*Distribute the exponent outside the parenthesis\*\* | When you ***raise*** a power to a power… | (mxa)b= mbxa\*b | (3x2)3=  (3)3 (x2)3=  27x6 |