# Everything I Know About Exponents

1. Exponents Laws

* Dividing Exponents- When dividing exponents you subtract the two exponents.

Ex. 2^6 / 2^3 = 2^3

* Multiplying Exponents- When multiplying you add the two exponents.

Ex. 2^6 x 2^2 = 2^8

* Exponents to exponent- When doing an equation with exponents you multiply the two.

Ex. (2^5) ^2= 2^10

2. Labelling Ex. 2^7

* 2 is the base
* 7 is the exponent

3. Exponent laws don’t apply if the base numbers aren’t the same. You just evaluate it.

* 2^2 x 3^2 = 36

4. Anything with an exponent with 0 is 1

* 123^0 = 1

5. Finding errors in Exponent expressions

* 2^3 x 2^3= 4^9 The error is that they multiplied the two bases and exponents

2^3 x 2^3= 2^6 because you and the two exponents and leave the base if it’s the same.

* 2^3 x 2^8= 2^28 The error is that they multiplied the exponents

2^3 x 2^8= 2^11 you add the two if the base is the same and if its multiplication.

6. A Problems with integers

* (-3^2)= 9

7. Repeated Multiplication is Exponents

3x3x3x3x3x3x3x3 is equal to 3^8