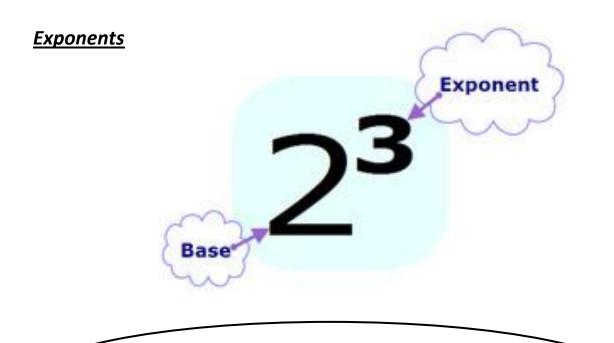
REVIEW: Exponents



The exponent is attached to whatever it is right next to. (Be mindful of PARENTHESES!)

Exponential Form:

$$X^5 = X \quad X \quad X \quad X$$

BEWARE OF THE PARENTHESES!!!

REMEMBER: the exponent is ATTACHED to whatever it is right next to.

$$-(2)^4$$
 -(2 2 2 2)

Any number with an EXPONENT OF ZERO always EQUALS 1

Multiplying with exponents:

KEEP THE BASE......ADD the EXPONENTS

Dividing with exponents:

KEEP THE BASE......SUBTRACT the EXPONENTS

REMEMBER

A <u>NEGATIVE EXPONENT</u> should be written as a <u>FRACTION</u>!

$$5^{-2} = \frac{1}{5^2}$$

Multiplying with Variables and Exponents

If variables are the SAME:

- Multiply the <u>COEFFICIENTS</u>
- > KEEP the VARIABLE and ADD the EXPONENTS

If variables are DIFFERENT:

Multiply the <u>COEFFICIENTS</u>

<u>WRITE the VARIABLES</u> next to each other in <u>ALPHABETICAL order</u>