

1.2 - EXPONENTS:

The bottom # is the BASE. The # the base is raised to is called the EXPONENT. A base and the EXPONENT are called a POWER.

$$3^2 = 3 \cdot 3$$

Calculate an exponent by multiplying the base by itself the number of times in the power.

Simplify the following exponents:

$$3^4 = 3 \cdot 3 \cdot 3 \cdot 3$$

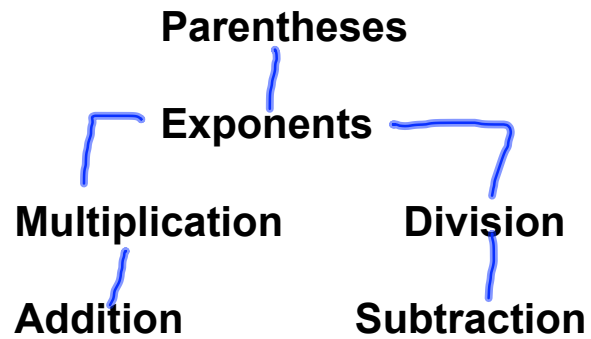
ORDER OF OPERATIONS:

PEMDAS:

Please	Parentheses
Excuse	Exponents
My	Multiplication
Dear	Division
Aunt	Addition
Sally	Subtraction

$$x^4 = 2^4 = 2 \cdot 2 \cdot 2 \cdot 2 = 16$$

↪ evaluate, $x=2$



If multiplication and division OR addition and subtraction are on the same line. Just calculate from left to right.

$$(4 + 3) \cdot 3 =$$

$$7 \cdot 3 = 21$$

$$4 + 3^2 \cdot 2 =$$

↓

$$4 + 9 \cdot 2$$

$$4 + 18 =$$

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