

P E M D A S

Order of Operations

| | | |
|----------|-----------------------|---|
| P | Parentheses | This is the grouping of numbers; it includes parentheses, brackets, braces, and as funny as it may sound, the division bar* |
| E | Exponentiation | This includes any exponent, powers & square roots |
| M | Multiplication | Here one multiplies terms from left to right through the expression |
| D | Division | Now one divides terms from left to right |
| A | Addition | Next one adds terms from left to right |
| S | Subtraction | Finally, one subtracts...from left to right |

*Suppose you had an expression like $\frac{14x+12y}{7}$, this fraction bar

implies a grouping like $(14x+12y) \div 7$

EXAMPLE:

| | |
|--------------------------------------|-------------------------------|
| $(3+2)^2 \div 5 - (14x \div 7x) + 7$ | Problem given |
| $(5)^2 \div 5 - (2) + 7$ | first do what is inside () |
| $25 \div 5 - 2 + 7$ | Next do the exponentiation |
| $5 - 2 + 7$ | Next do the division |
| $3 + 7$ | Next, addition or subtraction |
| 10 | from left to right |