## ORDER OF OPERATIONS

When we have a mathematical expression where more than one operations is involved, we tend evaluate the problem is a specific order.

1. Parentheses ( ) - first of all solve what's within the brackets i.e carry out the operations within them.
2. Exponents $a^{2}$ - then solve the exponents, if you have any in the expression.
3. Division \& Multiplication - after that perform multiplication and division operations in the expression starting from left to right.
4. Addition \& Subtraction - lastly perform addition and subtraction operations in the expression starting from left to right.

These set of rules are normally known as PEDMAS.
parentheses

multiplication

Example: Solve the expression following the correct order of operations.

$$
6+(3 \times 4) \div 4-5
$$

Solution:

|  | $6+12 \div 4-5$ |
| :--- | :--- |
| $=6+3-5$ |  |
| (solve what's in the brackets) |  |
| $=9-5$ |  |
| $=4$ |  |
| $=4$ (then divide) |  |
| $=$ |  |

