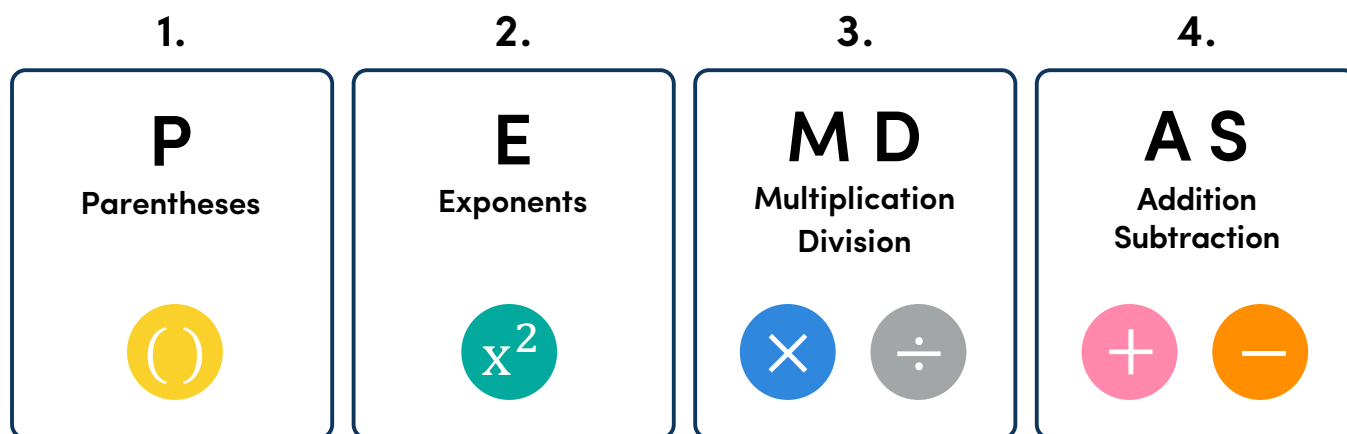# Order of Operations Overview (PEMDAS)

PEMDAS is an acronym used to remember the **order of operations** in mathematics. It helps ensure that mathematical expressions are solved in the correct sequence. Each letter stands for a specific operation:

1.

P
Parentheses

2.

E
Exponents

x^2

3.

M D
Multiplication Division

$\times$ $\div$

4.

A S
Addition Subtraction

$+$ $-$

After parentheses and exponents, we move **Left to Right**, doing a) multiplication and division and then b) addition and subtraction as we find them in the problem.

Left to Right   Left to Right

Example:

P $3^2 + 7 \times (9-5) - 8 =$

E $3^2 + 7 \times 4 - 8 =$

M / D $9 + 7 \times 4 - 8 =$

A / S
left to right $9 + 28 - 8 =$

A / S
left to right $37 - 8 = 29$

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