

ORDER OF OPERATIONS

PEMDAS

Example: $24 \div 4 \times 3 - 9 =$
 $24 \div 12 - 9 =$
 $2 - 9 = -7$

$$\frac{24}{4} \times 3 - 9$$

$$24 \div 4 \times 3 - 9 = 6 \times 3 - 9 = 18 - 9 = 9$$

P: (), [], { }, | | , $\sqrt[n]{\quad}$
 brackets, braces, absolute values, roots

Example: $10 + \{ 32 \div 2^3 \div [8 - 2 * (4 - | 2 - 3 |)] \}$

Grouping symbols should be done inside out

$$10 + \{ 32 \div 2^3 \div [8 - 2 * 3] \}$$

$$10 + \{ 32 \div 2^3 \div [8 - 6] \}$$

$$10 + \{ 32 \div 2^3 \div 2 \} = 10 + \{ 32 \div 8 \div 2 \}$$

$$= 10 + 2 = 12$$