MATH

"Gemdas"

Order Of Operations: P E M D A S

1st: Grouping Symbols

$|\square|$ Absolute Value, $(\ )$, $[\ ]$ Parenthesis, and Brackets, $\frac{\square}{\square}$ Fractions, $\sqrt{\square}$ Square Roots

Examples:

A. $30 - 14 \div 2$

$30 - 14 \div 2$

$30 - 7$

23

B. $\frac{2 \cdot 8^2 - 2^2 \cdot 8}{2 \cdot 8}$

$\frac{2 \cdot 8^2 - 2^2 \cdot 8}{2 \cdot 8}$

$\frac{2 \cdot 64 - 4 \cdot 8}{2 \cdot 8}$

$\frac{128 - 32}{16}$

$\frac{96}{16}$

$96 \div 16 = 6$

2nd: **Exponents** n^2, n^3, n^4, ...

3rd: Multiplication OR Division.

⇒ **Whichever comes first from left to right**

Last: Add OR Subtract

⇒ **Whichever comes first from left to right**

C. $6 - \left[\frac{\sqrt{3^2 + 7}}{2} - |(2)(3)(5)| \right]$

$6 - \left[\frac{\sqrt{3^2 + 7}}{2} - |(2)(3)(5)| \right]$

$6 - \left[\frac{\sqrt{9 + 7}}{2} - |6(5)| \right]$

$6 - \left[\frac{\sqrt{16}}{2} - |30| \right]$

$6 - \left[\frac{4}{2} - 30 \right]$

$6 - \left[2 - 30 \right] \Rightarrow 6 - [-28] \Rightarrow 6 + 28 = 34$

Problem C approach:

Notice Grouping symbols. Start with the operations inside them.

- Keep your steps "Straight"and orderly.
- Each step should be Legible (readable).
- The Absolute Value of a number, is NOT the opposite. It's always Positive (or Zero).
- Be careful with the rules of (+) and (-) numbers.

"KySS: KEEP yOUR STEPS STRAIGHT."

GOOGLE:Adriant Sanchez