

**Content and Language Objective:**

**Students will review the order of operations to deepen their understanding of the process that is necessary to solve math problems**

**Warm - Up**

**1.**

**2.**

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With a partner, look at the given problem.

**IS THERE A DIFFERENCE BETWEEN THESE TWO EXPRESSIONS? DISCUSS WITH YOUR PARTNER.**

$$\begin{array}{l} (4 + 6) \bullet 3 \\ 10 \cdot 3 \\ 30 \end{array}$$

$$\begin{array}{l} 4 + (6 \bullet 3) \\ 4 + 18 \\ 22 \end{array}$$



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**Order of operations:**

**1. Evaluate expressions within parentheses or other grouping symbols.** ( ) [ ] { } | |

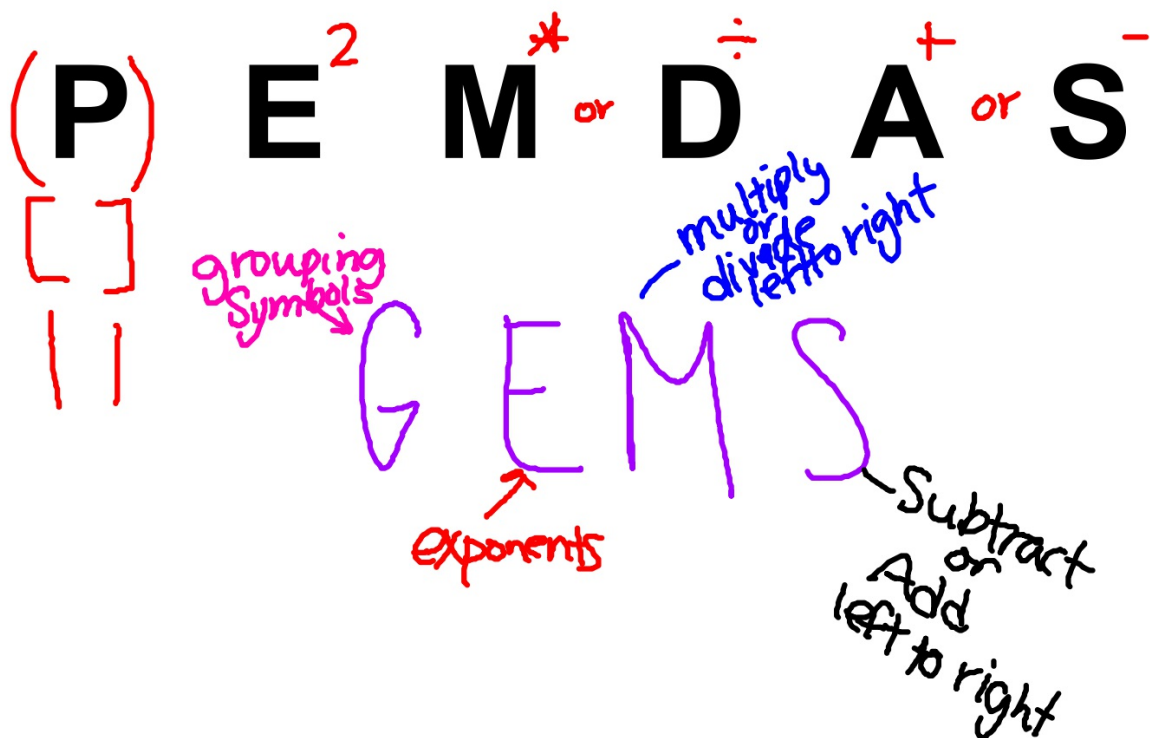
**2. Evaluate all powers.**  $4^2$   $(4 + 2)^3$

**3. Multiply and divide from left to right.**  $6 \div 3 \bullet 2$   $2 \cdot 2$   
 ~~$6 \div 6 = 1$~~   $4$

**4. Add and subtract from left to right.**  $7 - 4 + 3$   $7 - 4 + 3$   
 ~~$7 - 1$~~   $3 + 3$   
 $0$   $6$

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**IMPORTANT!!**

**BE SURE TO EVALUATE EXPONENTS BEFORE PERFORMING NEGATION.**

**EXAMPLE:**

$$-2^4 = -(2*2*2*2) = -16 \quad \text{but} \quad (-2)^4 = (-2)(-2)(-2)(-2) = 16$$

**So be aware of this especially with your calculator because the calculator will do the same method as above.**

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$$5 - 3 \cdot 2 - (4 + 5)$$

$$5 - 3 \cdot 2 - (9)$$

$$5 - 6 - (9)$$

$$-1 - (9)$$

$$-10$$

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$$\begin{array}{l} -3^2 + \frac{5+7}{2+1} \quad 12 \\ -9 + \frac{12}{3} \\ -9 + 4 \\ \textcircled{-5} \end{array}$$

$$\begin{array}{l} (-3)^2 + \frac{5+7}{2+1} \\ 9 + \frac{12}{3} \\ 9 + 4 = 13 \end{array}$$



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$$4^3 - 5(2 - 6 \cdot 2)$$

$$64 - 5(2 - 6 \cdot 2)$$

$$(2 - 12)$$

$$64 - 5(-10)$$

$$64 + 50$$

$$114 \text{!!}$$

