

BE-1B | MONDAY 8-13-07

- ① HAVE homework ready or "reason"
⚡
full size, properly
labeled
+ CONTACT FORM/PARENT
LETTER
-

② $(3 \cdot 1)^3 - \frac{4+6}{5 \cdot 2}$

③ $8(5-3)$

④ $8(x-3)$

⑤ $x = 6, y = -3$

$xy = ?$

Order of Operations Rules
↓
WHICH comes first, second
↓
+, -, ÷, •

PE ($\overrightarrow{MD}$) ($\overrightarrow{AS}$)

OR
PE ($\overrightarrow{DM}$) ($\overrightarrow{SA}$)

P = parentheses or any grouping
(), [], { }, —, | |

E = exponent

M = multiplication

D = division

A = addition

S = subtraction

Practice Order of Operations:

① $3 + 2 \cdot 4$

② $\frac{10 - 6}{8}$

③ $18 - 4^2 + 7$

④ $8(2 + 5) - 6$

⑤ $4(11 + 7) - 9 \cdot 8$

⑥ $16 \div 2 \cdot 5 \cdot 3 \div 6$

⑦ $6(4^3 + 2^2)$

$x + 0 = ?$ Property?

$1 \cdot x = ?$ Property

Additive Identity $\Rightarrow$ you can add zero to anything and not change its identity

Multiplicative Identity $\Rightarrow$ you can multiply anything by one and not change its identity.

$0 \cdot x = ?$ Property

Multiplication Property of Zero (MPOZ) $\Rightarrow$ anything times zero is zero

PROPERTIES

$$\begin{array}{l} 4 + 5 = 9 \\ 5 + 4 = 9 \end{array} \} \oplus \text{Commutative Property}$$

OF

$$\begin{array}{l} 4(5) = 20 \\ 5(4) = 20 \end{array} \} \odot \text{ADDITION/MULTIPLICATION}$$

$$\begin{array}{l} 4 + (5 + 6) = 15 \\ (4 + 5) + 6 = 15 \end{array} \} \oplus \text{Associative Property}$$

OF

ADDITION/MULT.

$$\begin{array}{l} 4(5 \cdot 6) = 120 \\ (4 \cdot 5)6 = 120 \end{array} \} \odot$$

The "biggie" $\Rightarrow$ the DP!

CW/HW $\Rightarrow$ WS 1-2