Warm Up

Does $5+2(3)=11$ OR $5+2(3)=21$?

Which one of the above equations is evaluated correctly?

$5+2(3)$

$5+6=11$

Order of Operations

Please excuse my dear Aunt Sally

PEMDAS

PEMA DS

Why do your teachers write it this way???

Order of Operations

1. Parentheses
2. Exponents
3. Multiplication or Division (L to R)
4. Addition or Subtraction (L to R)

Underline the first expression to evaluate in each problem

$5+(8\times5)+72\div8$

$10-7+12\div6+60\div6$

$5+9+10+16\div4$

$6-4+54\div6\times3$

$(7+90\div9)+56\div7$

$8+(90\div9\times5)\times6$

Order of Operations

1. Parentheses
2. Exponents
3. Multiplication or Division (L to R)
4. Addition or Subtraction (L to R)

$4+54\div6$

$4+9$

13

$10+(6\times5)$

$10+30$

40

TN VaR

$5+20\div4$

$5+5=10$

Cece

$(3+8)+42\div7$

$11+42\div7$

$11+6$

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Order of Operations

1. Parentheses
2. Exponents
3. Multiplication or Division L to R
4. Addition or Subtraction L to R

1 a. $8 \times 2 + 3 + 1$	1 b. $9 + (8 + 6) \times 6$
2 a. $7 - (7 - 6) - 4$	2 b. $(8 + 1 + 5) \times 8$
3 a. $8 \times 6 + (7 + 3)$	3 b. $(7 + 9) + 6 \times 6$

1) $40 - 2(6 - 4)^2$

$40-2(2)^2$

$40-2(4)$

$40-8$

32

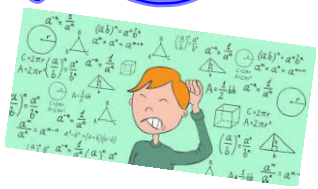
2) $[3(-2)^2 - 2(-3)^2]^3$

$=3(-2)^2-2(-3)^2$

$[3(4)-2(9)]^3$

$12-18$

$=-6^3$ -216



3) $2(20 - 32 + 1) - (42 \div 2 \times 3)$

$-12+1$ 21×3

$=$ 63

$2(-11)$

$-22-63$ -85

$40-2(6-4)^2$

32