Order of Operations

Goals aligned to common core standards:

- You will be able to use the order of operations.

Order of Operations

Please Excuse My Dear Aunt Sally

PEMDAS

Parenthesis
Exponents
Multiplication & Dividing
Adding & Subtracting

Paréntesis
Exponentes
Multiplicar y Dividir
sumA y reSta

Evaluate

$16 - 8 \div 2^2 + 14$

$16 - 8 \div 4 + 14$

$16 - 2 + 14$

$14 + 14 = 28$

$3 + 42 \cdot 2 - 5$

$3 + 84 - 5$

$87 - 5$

82

$20 - 7 + 8^2 - 7 \cdot 11$

$20 - 7 + 64 - 7 \cdot 11$

$20 - 7 + 64 - 77$

$13 + 64 - 77$

$77 - 77 = 0$

Evaluate each expression.

$4 \div 2 + 5(10 - 6)$

$4 \div 2 + 5(4)$

$2 + 20$

22

$6[32 - (2 + 3)^2]$

$6[32 - 5^2]$

$6(32 - 25) = 6(7) = 42$

$\dfrac{(4 + 5)^2}{3(7 - 4)} = \dfrac{9^2}{3(3)} = \dfrac{81}{9} = 9$

$2^3 \div (4^2 - ((-2)(4+(-10))))$

$2^3 \div (4^2 - ((-2)(-6)))$

$2^3 \div (4^2 - 12)$

$2^3 \div (16 - 12)$

$2^3 \div 4$

$8 \div 4$

2

$2 \cdot 8 \div (-2)^3 \cdot 6 - (17-2)$

$2 \cdot 8 \div (-2)^{19-15}$

$2 \cdot 8 \div -2^3$

$2 \cdot 8 \div -8$

$16 \div -8$

-2

$$3-5+(9-5)^2-3\cdot\frac{6+1}{-3-4}+2-3\cdot 20$$

$3-5+4^2-3\cdot\frac{6+1}{-3-4}+2-3\cdot 20$

$3-5+16-3\cdot\frac{7}{-7}+2-3\cdot 20$

$3-5+16+3+2-60$

$-2+16+3+2-60$

$14+3+2-60$

$17+2-60$

$19-60$

-41

Goals aligned to common core standards:

- You can use the order of operations.

Johnny has 20 chocolate bars. He eats 18 of them. What does Johnny have now?

A serious problem.