

Chapter 2 - Day 1

Order of Operations

1. Parenthesis

2. Exponents

3. Multiplication & Division
(left to right)

4. Addition & Subtraction
(left to right)

PEMDAS

Please Excuse My Dear Aunt Sally

Ex: Simplify $4^2 + 7$

$$= 16 + 7$$

exponent

$$= 23$$

addition

Ex: Simplify $-2^3 - 1 \cdot 3$

Careful! $-2^3 \neq (-2)^3$

$$= -8 - 1 \cdot 3$$

exponent

$$= -8 - 3$$

multiplication

$$= -11$$

Subtraction

Ex: List the order in which operations are being applied to x .

$$3(2x^2 + 1) - 5$$

1. square x
2. multiply by 2
3. add 1
4. multiply by 3
5. subtract 5

Ex: List the order of operations being applied to a.

$$b^2 + 4a - 3$$

1. multiply by 4
2. add b^2
3. subtract 3