

Day 2: Orders of Operations – Course Intro

Lesson: Orders of Operations

BEDMAS is an acronym we can use to remember the order in which mathematical operations are to be performed.

Example 1: $4 - (5 - 6) =$

Example 2: $(3 - 6) \div (9 - 10) + (24 - 4) \div (-5)$

Example 3: $12 - [18 - (-1)^2 + 3]$

Example 4: $32 \div [16 \times (-2)] + 20 - (4^2 + 3)$

BEDMAS

B – Brackets

E – Exponents

D – Division

M – Multiplication *

A – Addition

S – Subtraction **

*division & multiplication in the order they appear from left to right

**addition & subtraction in the order they appear from left to right

Let's Recap a Little About Exponents...

$2 \times 2 \times 2 \times 2 = \mathbf{2}$

Complete the following chart:

Power	Expanded (meaning)	Base	Exponent	Value
2^3	$2 \times 2 \times 2$			
$(-3)^5$				
		3		27
	$0.6 \times 0.6 \times 0.6$			
		(-9)	2	
$\left(\frac{2}{5}\right)^3$				
$(-1)^2$				
-1^2				

Day 2: Orders of Operations – Course Intro

Practice: Order of Operations

a. $(3 - 4) + 5$	b. $(-4 + 7) - (2^2 + 2) \div (+3)$
c. $3 - 2(3^2 - 7) \times 4 \div 2$	d. $-8 \div (-2) - (-3)$
e. $2(4 - 7)^2 + 5 \times 2$	f. $\frac{(-6)(-3) - 7(6) + 9}{-3}$
g. $6 - 12 \div (-3) + 2$	h. $\frac{(-5)(2)(3) - 2}{(-8)(2)}$
Answers: a. 4, b. 1, c. -5, d. 7, e. 28, f. 5, g. 12, h. 2	