

Name:

Period:

Notes 1-1

Int 1

Order of Operations

Unit 1

What is the Order of Operations?

1<sup>st</sup>: Grouping Symbols ( ) [ ] { }

2<sup>nd</sup>: Exponents  $4^2$   $3^3$

3<sup>rd</sup>: Multiply OR Divide -  $\xrightarrow{\text{left to right}}$

4<sup>th</sup>: Add OR Subtract -  $\xrightarrow{\text{left to right}}$

Ex. 1:  $27 - 25 \div 5 \cdot 3 + 9$

$$27 - \underbrace{5 \cdot 3} + 9$$

$$27 - 15 + 9$$

$$\underbrace{12 + 9}$$

(21)

Ex. 2:  $4 + 6(8 - 2) + 7$

$$4 + \underbrace{6(6)} + 7$$

$$4 + 36 + 7$$

$$\xrightarrow{\quad} 40 + 7$$

(47)

Use • not  $\times$  for multiply!!!

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Ex. 3:  $\frac{3 \cdot 5 + 9 \div 3}{2(3)} \rightarrow \frac{15 + 9 \div 3}{6} = \frac{15 + 3}{6} = \frac{18}{6} = 3$

$18 \div 6 \rightarrow$

Ex. 4:  $2[7(3+6) - (8 \cdot 4 - 1)]$

$2[7(9) - (8 \cdot 4 - 1)]$

$2[7(9) - (32 - 1)]$

$2[7(9) - (31)]$

$2[63 - 31]$

$2[32]$

$64$