Name:	ACU

Math Period:\_\_\_\_\_ Date:\_\_\_\_\_ Guided Notes - Order of Operations

	only includes number and operation symbols *No equal sign
What does it mean to simplify?	find an equivalent expression that is simpler than the origin
What is the order of operations?	Order of operations is a series of steps to solve numerical expressions.  1. Parentheses
	2. Expanents  3. Multiply or Divide from left to right  4. Add or subtract
Helpful Hint: The following chart resembles a hopscotch board. It is to remind you that when you land on multiplication/division, or addition/subtraction, both of your legs are touching a box which means that you must do whichever one comes first from left to right.	P E + -
$9 + 12 \times 2$ $9 + 34$	33
$4 \times 3^{2} + 8 - 16$ $4 \times 9 + 8 - 16$ $360 + 8 - 16$	[38]
5 + 12 ÷ 6 - 3 5 + 2 - 3	
72	

## Order of Operations

Practice 1: $ 4^{2} + 48 \div (10 - 4) $ $ 4^{3} + 48 \div 6 $ $ 16 + 48 \div 6 $	24
Practice 2: $81 \div (9 \times 9) + 4^3$ $81 \div 81 + 4^3$ $81 \div 81 + 64$ 1 + 64	65
Practice 3: $65$ $61 + 5 \times 10 \div 2 - 70$ $61 + 50 \div 2 - 70$ $61 + 35 - 70$ $61 + 35 - 70$	[IG]
Practice 4:  (2 <sup>2</sup> + 18) + 3 - 5 x 4  (4+18) + 3 - 5 x 4  23 + 3 - 5 x 4  23 + 3 - 30  35 - 30	[5]
Practice 5: $21 \div (3 + 4) \times 9 - 2^{3} \times 9 - 2^{3} \times 9 - 8$ $21 \div 7 \times 9 - 8$ $21 \div 7 \times 9 - 8$	[19]
Practice 6:  Regina bought 5 carved wooden beads for \$3 each and 8 glass beads for \$2 each. Write and evaluate the expression.  5 x \$3 + 8 x \$2	\$31
Tyler walked 2 miles a day for the first week of his exercise plan. Then he walked 3 miles for the next nine days. How many miles did Tyler walk?  2 x 7 + 3 x 9	[41miles]