Remember:	Please have out:
-Five minutes of silence	- Pencil
	- Notebook
	- A piece of lined paper

## Warm Up:

\*Do your warmup on a separate sheet of paper. **DO NOT** do it in your notebook

Solve using the order of operations

$$\sqrt{9} - (10 \div 5 \cdot -2) + 3^{2}$$
 $\sqrt{9} - (2 \cdot -2) + 3^{2}$ 
 $\sqrt{9} - (2 \cdot$ 

Translating and Evaluating Expressions	

Variable - a letter that represents a number

$$3x + 2$$
  $\frac{(7)(m)}{3}$ 

Expressions - a mathematical phrase that can include numbers, operations symbols and variables

$$5x$$
,  $x + 2$ ,  $3x^2 - 8$ ,  $a + b$ ,  $6 + x = 9$ 

Sum - +Difference - -Product - (3)(2)  $4\times$ 

Quotient -

## Translating Expressions

3 more than twice a number

$$3 + 2x$$

5 less than the quotient of 6 and a number  $\frac{6}{X}$  - 5 (6 - x) - 5

$$\frac{6}{X}$$
 - 5

The product of 4 and the sum of a number and 7 4(x+7)

$$4(x+7)$$

Twice the sum of a number and 8 2(x+8)

the quotient of 5 and the sum of 12 and a number

 $\frac{5}{(12+x)}$  or  $5 \div (12+x)$ 

## **Evaluating Expressions**

- Substitute numbers 1. for variables
- 2. Use the order of operations to simplify

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Example: Evaluate 
$$m(p-g)^2$$
 for  $m = 3$ ,  $p=7$  and  $g = 4$ 
Substitute numbers for variables

Use the order of erations to simplify

$$3 \cdot (3)^2$$

Solve 2 + 3(x-15) when x = 4

Solve  $3x^2 + 6y$  when x = 4 and y = 5