## **Algebra Review!**

#### • Warm-up

• Take about 5-10 minutes to complete the coordinates worksheet from yesterday.

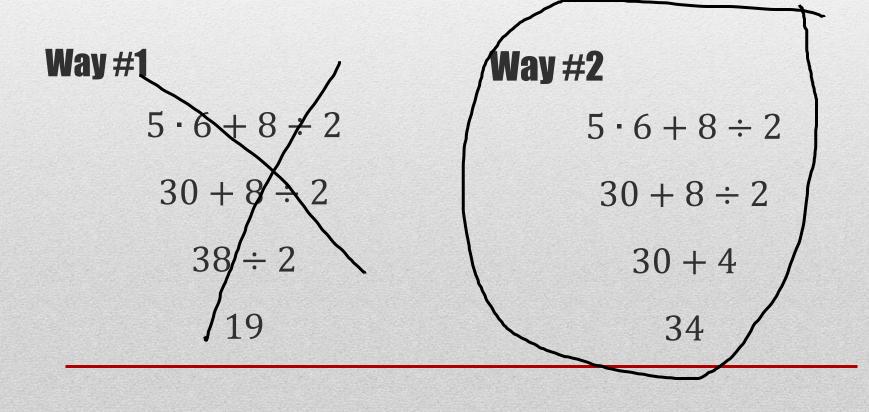
## **Order of Operations**

• <u>**Objective</u>**: Students will be able to simplify expressions using order of operations.</u>

\*Question: Do you know what the saying is for order of operations.

#### **Example: Simplify the expression on your own** $5 \cdot 6 + 8 \div 2$

# There are two different ways we could solve this problem. Which one is the correct way?



#### Now try this

 $(3 \cdot 4 - 9) \cdot 7$  $(12 - 9) \cdot 7$  $(3) \cdot 7$ 21

### PEMDAS

Parenthesis More accurately read as Exponent Parenthesis Multiplication Exponent Multiplication Division Division Subtraction Addition Addition

Subtraction

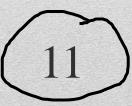
#### **Example** Simplify the expression using order of

operations.

 $3^2 + 8 \div 4$ 

 $9+8\div4$ 

9 + 2





#### Simplify the expression using order of operations

 $\frac{(5+7)}{(1+5)}$ 

12 6

2

## Working with Variables

Simplify the Expression using order of operations

$$-(4x - 6x + 7 - 9) -(-2x - 2)$$
$$2x + 2$$

#### **More with Variables**

Simplify the expression using order of operations  $-(5 \cdot 2 + 3x) + (1 + 9 \div 3)$  -(10 + 3x) + (1 + 3) -10 - 3x + 4 -3x - 6

#### Worksheet: Order of Operations Practice

- Work with your group.
- Whatever you do not finish in class is homework.