## Algebra Review!

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


## Order of Operations

- Objective: Students will be able to simplify expressions using order of operations.
*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

$$
\begin{gathered}
(3 \cdot 4-9) \cdot 7 \\
(12-9) \cdot 7 \\
(3) \cdot 7 \\
21
\end{gathered}
$$

Parenthesis
Exponent
Multiplication
Division
Addition

More accurately read as
Parenthesis
Exponent
Multiplication Division
Addition Subtraction

Subtraction

## Example <br> Simplify the expression using order of

operations.


## Example

Simplify the expression using order of operations

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

$\frac{12}{6}$

## 2

## Working with Variables

Simplify the Expression using order of operations

$$
\begin{gathered}
-\left(4 x-6 x+y^{7-9}\right) \\
-(-2 x-2) \\
2 x+2
\end{gathered}
$$

## More with Variables

Simplify the expression using order of operations

$$
\begin{gathered}
-(5 \cdot 2+3 x)+(1+9 \div 3) \\
-(10+3 x)+(1+3) \\
-10-3 x+4 \\
-3 x-6
\end{gathered}
$$

## Worksheet: Order of Operations Practice

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

