

#### Learning Questions

So What am I learning today?

The vocabulary needed to describe mathematical expressions

So How will I show I learned it?

Identify the pieces of a trinomial expression

#### Vocabulary

Insert the following math terms into the "Vocabulary" section of your INB. (Starts at page 3)
Be sure to include the examples.

#### **Algebraic Expression**

A mathematical statement with variables, numbers, addition, subtraction, multiplication, division, parenthesis, square roots, exponents...

So Examples: 
$$\frac{x-2}{3(x+2)}$$
$$-5b+7c-d$$
$$\sqrt{5xy}$$

#### Variable

#### Symbols or letters used to represent an unknown

A

β

 $\odot$ 

So Examples: X



## Items that are being added, subtracted, or divided.

So Examples:  $5a^2 - 2xy + 3$ 

3 terms

 $\frac{P-2x}{a^2+b}$ 





## some power

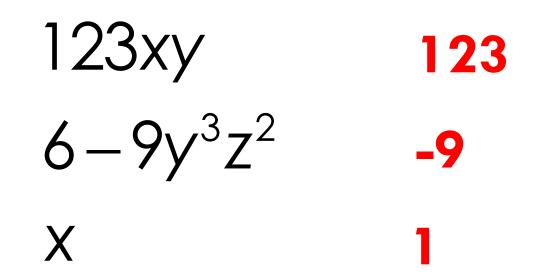
**So Examples:** 

 $5x^2y$  and  $8x^2y$  $-7y^{2}$  and  $22y^{2}$ 



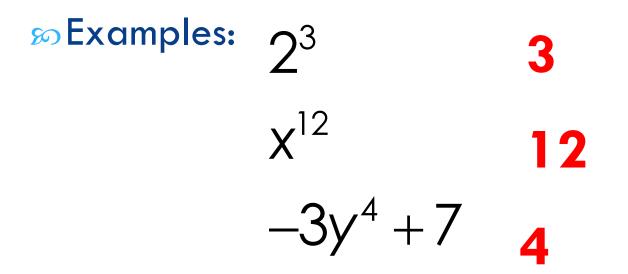
## So The <u>number</u> in front of a variable. It can be <u>positive or negative</u>.

**So Examples:** 





The number up in the air next to a base
The number of times you multiply something by itself



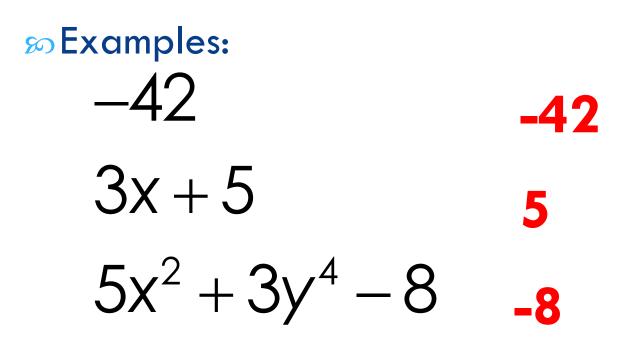


So What the <u>exponent</u> sits on. You cannot have a base without an exponent.
So The part that has been raised to a power

So Examples:  $2^{3}$  **2**  $x^{12}$  **x**  $-3y^{4} + 7$ 



A number that has no variable
It can be positive or negative





Items that are being <u>multiplied</u> together
Can be numbers, variables, parenthesis
Examples:

6 1 and 6.... Or 2 and 3 9xy 9 and x and y (x+2)(y-3)(x + 2) and (y - 3)3(z-9) 3 and (z - 9)



## <u>Title</u> "Mathematical Operation Words"



<sup>so</sup>Sum <sup>80</sup>Plus **SAdd** More Than <sup>®</sup>Increased



- **Difference**
- **Minus**
- **Decreased**

Solution Less Than (swaps the order)



# Solution Solution Solution Solution

#### MULTIPLICATION (•)

Product
Twice
Double
Triple



Square
Cubed
To the power of
Raised to a power



## Square-Root Root of



Greater Than
More Than
No Less Than
At Least



# Less Than No More Than At Most

So Copy the following problems on the left page of your INB. Write the problem and then the answer.



#### The sum of a number and 10

### x + 10

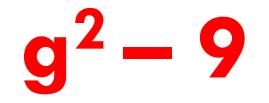


#### The product of 9 and x squared





#### 9 less than g to the fourth power





### 8 + 3x

#### Eight increased by three times x

## Practice Worksheet

"Matching Expressions"



## <u>Title</u> "Interpreting an Expression"

On the left page across from "Interpreting an Expression", copy the following problems and try to answer the accompanying questions.

$$6x^3 - 4xy + 7x^2 - 12$$

How many terms are there? Name the terms: Name the factors: Name the coefficients: Name the constant:

- $3a^{2}b 16abc + 8.5$
- How many terms are there? Name the terms: Name the factors: Name the coefficients: Name the constant:

#### You are buying 4 cokes at "d" dollars each. Tax is an additional \$.58. Write an expression for this situation. How many terms are there? Name the terms: Name the factors: Name the coefficients: Name the constant:

## HOMEWORK

#### WORKSHEET

#### Interpreting an Expression Intro Worksheet