Writing Expressions

<u>ALGEBRAIC EXPRESSION</u> - a combination of variables, numbers, and at least one operation.

Examples:

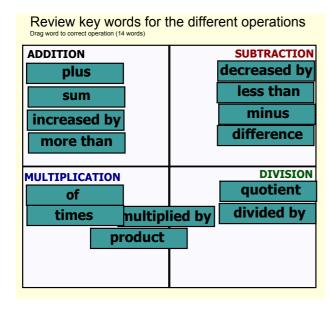
5 + n 7a (means 7 x a) k -

VARIABLE - a placeholder, a letter or symbol, used to represent an unspecified value in mathematical expressions or equations

Suppose you knew that the Panthers scored 35 points in the first half of a game, but you didn't know how many points they scored in the second half. You could use a variable to represent the number of points scored in the second half.

DEFINE THE VARIABLE: 35 + p

p = points in the second half



Verbal Phrases	Algebraic Expression
9 more than a number the sum of 9 and a number a number plus 9 a number increased by 9 the total of x and 9	Click to reveal X+9
4 subtracted from a number a number minus 4 4 less than a number a number decreased by 4 the difference of h and 4	X-4 > X
6 multiplied by g 6 times a number the product of g and 6	Op Op
a number divided by 5 the quotient of t and 5 divide a number by 5	

Write a word phrase for each algebraic expression.

Algebraic Expression	Word Phrase
q + 5	A number plus 5
3 - t	3 decreased by a number
y / 5	Anumber divided by 5
12 x	12 times a number

Tips to remember:

- Letters in math are called variables because their values vary.
- When multiplying a number and a variable, the number is written first. For example: x times 5 is 5x not x5.
- Don't use subtraction in the wrong order!

For example:

"the difference of 5 and t" and "5 decreased by t" are translated as 5 - t while "5 less than t" and "5 subtracted from t" are translated as t - 5.

Real World Application:

Mary earns an allowance of \$5 per week. She also earns \$6
per hour babysitting. Write an expression that would
represent the total amount of money she earns in one week.

define the co	nstant:	
define the var	iable: 6	
expression:	6h+5	6(6)+5=36+5=\$4

Evaluate your expression to determine how much Mary will make if she works for 6 hours.

Real World Application:

1. You have decided to treat yourself to ice cream. "Scoops" has one cone of ice cream for \$3 and each topping is \$1.

define the constant: _	_3
define the variable:	It.
expression: 1+3	1(3)+3 3+3=6

Evaluate your expression to determine how much it will cost to get an ice cream cone with 3 toppings.

1-15 only
Bring to Mrs. M'hee
when done
Get spiral from Mrs. M'Gee
and work on it