Interpret Language in Math Expressions – NOTES Answer Key

Name:_____ Class Period:_____

Definitions:

Vocabulary	Definition	Examples
Algebraic Expression (no = sign)	A math~~ematical~~ statement that includes numbers, operations, and variables to represent a number or a quantity (+, −, ×, ÷)	$3x^2+5x-4$
Variable	A letter used to represent a value or unknown quantity that can change or vary	x, y, n, p
Term	A number, a variable, or the product of a number and variables	$3x^2, 5x, -4$
Like Terms	Terms that contain the same variables raised to the same power	$4p^3+6p-2p^3+5x$ $4p^3, -2p^3$ like terms
Coefficient	The number multiplied by a variable ~~in an algebraic expression~~ (# in front of variable)	$7y^4$ 7 is coefficient
Exponent	The number of times a factor is being multiplied together ~~in an exponential expression~~;	a^b b is the exponent x^4 4 is exp.
Base	The factor being multiplied together ~~in an exponential expression~~	a^b a is the base x^4 x is base
Constant	A quantity that does not change (number that's alone)	$6x^2+2x+5$ 5 is constant
Factors	One of two or more numbers or expressions that when multiplied produce a given porduct	$\underline{3x^2}+5x-4$ $3, x^2, 5, x$

PEMDAS

HW Prob.

Order of Operations	The order in which expressions are evaluated from left to right (grouping symbols, exponents, multiplication and division, addition and subtraction)	

Translations: Fill in the appropriate words for each math operation.

- Half
- Plus
- Triple
- More Than
- Difference
- To the power of
- Sum
- Decreased
- Twice
- Less Than (swaps the order)
- Raised to a power
- Take away
- Increased
- Cubed
- Minus
- Quotient
- Product
- Divide by
- Double
- Add
- Times
- Together
- Square

Addition- (6 words)

Plus, More than, sum, Increased, Add, TOgether

Subtraction- (5 words)

Difference, Decreased, Less than, Take away, minus

Division- (3 words)

Half, Quotient, Divide by

Multiplication- (5 words)

Twice, product, Double, Times, Triple

Exponents- (4 words)

To the power of, raised to a power, cubed, Square

1. The sum of a number and 10

$x+10$

2. The product of 9 and x squared

$9x^2$

3. 9 less than g to the fourth power

g^4-9

4. 8 + 3x

Eight more than 3 times X