AIM: 2-4 I will be able to translate algebraic expressions!

Name Mrs. Ashley Date ____ Math 6 - Period

Warm-up: Identify the next three (3) terms in each sequence. What is the rule?

Rule: add three (+ 3)

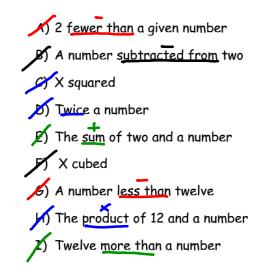




Let's Investigate:

TRANSLATING EXPRESSIONS: Do you mean what you say? Write the letter choice on the line that matches the correct algebraic expression.

2x 1. x + 2 2. A B H x - 2 3. 2 - x 12·X 12x 5 x + 12 6. 12 - x 7. x³ 8. x^2 9.



KEY WORDS

<u>Place the words below in the correct column:</u>

TWICE, TOTAL, QUOTIENT, TAKE AWAY

ADDITION	SUBTRACTION	MULTIPLICATION	DIVISION
(+)	(-)	(× or ·)	(÷)
Add	Decrease	Double (x2)	Divide
All together	Difference	Factor	Dividend
And	*Fewer than	Multiply	Divisor
Combined	How many left?	Of a number	Fraction
*Greater than	How many more?	Product	Goes Into
In All	*Less than	Quadruple (x4)	Half
Increase	Minus	Times	How many groups?
*More Than	Remaining	Triple (x3)	Per
Plus	Subtract	Twice (x2)	Percent
Sum	Take away		Quotient
Total			

SWITCH ORDER WORDS	EXPONENTS	PARENTHESIS WORDS	EQUALS
Greater t <u>han</u>	Cubed (x ³)	Quantity	Is
More t <u>han</u>	Squared (x²)	Times the difference of	Total
Fewer <u>than</u>		Twice the sum of	Result
Less than		Plus the difference of	Same as
Subtracted from		Plus the sum of	Equivalent to

<u>KEY CONCEPT 1:</u> Writing <u>algebraic expressions</u> to represent verbal sentences. $Lngish \rightarrow math$				
Highlight the key words that will help you determine the correct operation.				
1) A number x increased by three.	2) Three more than a number x.			
X + 3	X+3			
3) The quotient of a number <i>n</i> and fifteen.	 The product of a number n and fifteen. 			
$\frac{n}{15}$ or $n \div 15$	n.15 or 150			
5) Three times a number n decreased by five	6) Five le ss than three times a number <i>n.</i>			
3·n-5 3n-5	3n-5			

KEY CONCEPT 2: Writing algebraic expressions in WORDS.

Write the algebraic expressions in <u>words</u>, using key words from the <u>word-bank</u>. There is more than one way to write each expression.

7) 5d+6 The product of five and d, plus six.

Five times a number d, increased by six.

8) 15(a + c) Fifteen times the sum of a and c. Fifteen times the quantity of a and c. a increased by c, multiplied by fifteen.