Translating Algebraic Expressions

You will need to <u>Yanslate</u> between algebraic expressions and <u>WOYDS</u> to be successful in math.					
To <u>translate</u> words the <u>action</u> that is taking planslation	into algebraic	expressions, look f	or words that indicate		
© Triple © More Than © Difference © Raise	eased	h math operation. Increased Cubed Minus Quotient Product Divide by	Double Add Times Together Square		
Addition- (6 words)					
Subtraction- (5 words)					
Division- (3 words)					
Multiplication- (5 words)					
Exponents- (4 words)					
**Reversing the Order: FITT You Reverse the # F - Subtracted From I - divided Into T - more fran or le T - added TO	'ss than		tave no equal sign		
Translate each verbal expression in 1.) The sum of a number and 10 \times \tau_10	into an algebrai	expression:) 2.) The product of	9 and x squared		
3.) 9 less than g to the fourth power $9^4 - 9$	er	4.) 8 increased by 8 + 4	4 <mark>times</mark> a number		

WORD WALL:

Addition (+):	Subtraction (-):	Multiplication (x):	Division (÷):
 More Sum → (and) Increase Plus Total → (and) Added to Combined Include 	 Less Difference → (and) Decrease Minus Diminished Exclude Remove Take away Reduced 	 Times Product → (and) Twice (*2) Doubled (*2) Triple (*3) Of Multiple 	 Divided By Quotient → (and) Separated Split Cut
Tricky: Than	Fro	om	То

Convert the following phrases and sentences to algebraic expressions:

1. "The sum of three and an unknown number."

3. "A number doubled reduced by five."

5. "The product of three and an unknown number diminished by eight."

7. "The quotient of a number tripled and six."

9. "Ten subtracted from twice a number."

2. "Three less than an unknown number."

4. "The number of five increased by three times a number."

6. "Four subtracted from a number."

8. "Three times the sum of a number and four."

10. "Twice the difference of 7 and a number."

WORD WALL:

Addition (+): • More	Subtraction (-): • Less	Multiplication (x):	Division (+):
o Sum → (and) o Increase o Plus o Total → (and) o Added to o Combined o Include	 Difference → (and) Decrease Minus Diminished Exclude Remove Take away Reduced 	 Times Product → (and) Twice (*2) Doubled (*2) Triple (*3) Of Multiple 	 Divided By Quotient → (and) Separated Split Cut
ricky: Than	Fro	m	To

Convert the following phrases and sentences to algebraic expressions:

11. 4 of a number increased by seven.

4x+7

12. Twice the total of a number and three.

2(X+3)

13. Five add to a number squared.

 $\chi^2 + 5$

14. Nine decreased by a number cubed.

9-x3

- 15. Lori is 4 years younger than Shawn. Write an expression that represents Lori's age in relation to Shawn.
- 16. Jennifer is 1 year older than twice Zack's age. Write an expression that represents Jenifer's age in relation to Zack.

J=1+27

17. Jerry worked 2 hours less than four times as many hours as Katrina worked. Write an expression that represents the number of hours Jerry worked in relation to Katrina.

J=4K-2