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## Section 1.3 - Solving Equations Alg 2 Trig G Notes



Each of the words below can be replaced by a symbol in an equation. For example, the words "increased by" means to add. Rewrite each word in the appropriate column.

times	plus	decreased by	increased by	more than	less than
less	square	cube	twice	tripled	sum
difference	minus	je	is less than	is greater than	add
divide	product	quotient	subtract	multiply	

Words for	Words for	Words for	Words for	Words for	Words to	Words to
Adding	Subtracting	Multiplying	Dividing	Raising to a	make an	make an
				Power	Equation	Inequality
plus	1685	times	divide	square	is	less than
increased	difference	product	quotient	cube		morethan
Sum	minus	twice				greater
add	decreased	tripled				
	subtract	multiply				

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Expression: a mathematical statement with ND EQUALSIGN (3x+x²)

Equation: a mathematical sentence stating that 2 expressions are equal inequality: " one expression is

WRITE AN ALGEBRAIC EXPRESSION TO REPRESENT EACH VERBAL EXPRESSION:

1. The sum of six times a number and 25

2. Four times the sum of a number and 3

4. 7.3

3. 7 less than fifteen times a number

4. The product of 3 and the sum of 11 and a number  $3 \cdot (1 + x)$ 

5. Four times the square of a number increased by five times the same number

$$4\left(x^2+5x\right)$$

## WRITE AN ALGEBRAIC EQUATION TO REPRESENT EACH VERBAL EXPRESSION:

6. The sum of a number and 7 is 13.  $\chi + 7 = 13$ 

7. A number divided by 8 is equal to that number squared.  $\frac{x}{8} = x^2$ 

8. Seven times a number minus 2 is 19. 7n-2=19 7(n-2)=19

9. 9 plus the product of a number and 4 is 60.  $9 + (x \cdot 4) = 60$  9 + 4x = 60

## WRITE A VERBAL EXPRESSION TO REPRESENT EACH EQUATION:

11. h²+5h=10 the square of a number increased by 5 times the number is 10

12. 3+3n=2-n 3 plus 3 times a number is equal to 2 minus the number

