Examples of Linear Word Problems

	Always start with x
Consecutive	Y . V+1 . X+2 .
Numbers	$\frac{X}{1} + \frac{X+1}{2} + \frac{X+2}{3} + \dots$
	442
	Example: The sum of 4 consecutive integers is 441. Find each integer.
	X + X+1 + X+2 + X+3 = 4+2 + X+ 6= 4+3 X=109
List of #'s	
is ymr final -> Consecutive	109 110. III 112 Lat X = 436 Always start with x 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Even/Odd Integers	Always start with x
LyGH/Odd Illiegels	X + X+2 · X+4 + OR X + X+2 + X+4 + 2 4 6 1 3 5 they have a gap of 2 so add 2 each time.
	2 4 6 1 /3 5
	they have a gap of 2 so add 2 each time
	Example: The sum of three consecutive odd numbers is 333.
	X + X+2 + X+4 = 333 $3x+6=333$ $X=109$
	109 III 872 113 3X = 327
Is Less than	When "is" is present use the inequality sign for less than "<"
	Example: The sum of 12 and twice a number is less than 50.
	2×+12 < 50 2× < 38 X < 19
	-1/2 -13 2 3
	Refers to subtraction
Less than	"less than a number" should be written as x
	" a number less than" should be written as x
1.2	Example: 12 less than twice a number is 60.
producte plate	2x-12=60 $2x=72$
	V = 31
	The secretary construction and

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No more than	≤		
	Example: The product of seven and a number increased by 10 is no more than 140.		
	7(X+10) <12	4D	
- Libertonia de la composición dela composición de la composición de la composición dela composición dela composición dela composición dela composición de la composición dela composición	7x+70 = 1407x = 70	X+10 4 20 [X 4 10]	
≥	At least Greater than or equal No less than		
	Example: The sum of three times a number and five	e is at least 20.	
	3x+5 Z20	X ≥ 5	
	3x <u>7,15</u>	X = 3	
= .	is same amount same as equals as much as results		
	Example: The product of a number and five is equa	al tolthe product of the same number and	
	decreased by 12.] $5x = 4x - 12$	* X * /	
	- X=-12		
Average	Find the sum of your items (usually plus x) Divide by the total number of items you have		
	Example : Jimmy's first 5 unit test grades were 90, 74, 82, 68, and 76. Is it possible for Jimmy to he a B test average (B is an 80)? If so, what would he need to make on his next test?		
		390+X = 480	