Date _____

GEOMETRY NTI DAY 1: Simplifying Expressions and Solving Equations

Simplify the expressions, Solve the equations.

<u>Complete 3 in Each Row.</u> (You may complete them all for extra credit, but extra credit will only be given if the assignment is completed.) Please do your work on this sheet of paper.

1) 10 + v - 3 + v	2) $-5 + k - 3 - 2k$	3) $x - 6 - 6 + 5x$	4) 1-2p-7-4p	5) 7 – 6u – 5u – 29
6) 1-2p-7-4p=-30	7) -126 = -11 - 21n - 10	8) 3w + 2w - 1 = 19	9) x - 6 - 6 = 15	10) 9m + 35 – 4m = 0
11) - 4y - 8 + 7 - 3y = 48	12) –6a + 4 – 9 + 2a + 5	13) 5c + 2 + 34c - 21 - 18c	14) 5g + 9 – g = –23	15) 1 = 7r - 8r - 20
16) -11 - 21n - 10 + 126	17) 2 = 5c + 2 + 34c - 21 - 18c	18) r + 14 - 8r = 56	19) –6a + 4 – 9 + 2a + 5 = 0	20) 3w + 2w - 1 + 19
21) 11p + 16 - 2p = 7	22) -40 + 6x -4(8 - 3x) - 2x	23) 10 – f + 5f = -34	24) 6(5 – r) –7r – 3(5r +6)	25) 9k = 4k – 35

Name _____

DO NOT SOVLE THE FOLLOWING EQUATIONS!!! Determine whether each statement is TRUE or FALSE. Prove your answer by using substitution(aka-"Plug it in") WORK MUST BE SHOWN TO GET CREDIT FOR YOUR ANSWER!!!

27)

26) -6 is a solution for the equation 4k + 1 - 6 = -17.

-4 is a solution for the equation 6 - b - b = -2. 28) –8 is a solution for the equation

-1 = 16 + 2n - 4 - 5 - n.

FIND THE MISTAKE

Below are 2 equations that have been solved, step-by-step. Each of them contains one mistake. Find the mistake and circle it

29) $-4n - 2n = -12$	30)	-16 - 1 + 5r - 4r + r = -5
<u> </u>		-15 + 2r = - 5
6 6		+15 +15
n = -2		$\underline{2r} = \underline{10}$
		2 2
		r = 5