Equations and Inequalities - Pre-3

Topic: Equations and Inequalities

Date:

Assignment:		
#1) Do you have any grouping symbols like () or []?	Yes	No
#2) Do you have like terms on either side of the equal	Yes	No
sign? #3) Do you have variables on both sides of the equal	Yes	No
sign? #4) Do you have constant on the side of the equation		No
that the variable is on? #5) Do you have a coefficient attached to the variable other than 1?	Yes	No
Example:		
2(4x - 7) + 15 = 8		
Check: 2(4() - 7) + 15 = 8		
Addition Property of Equality		
Subtraction Property of Equality		
Multiplication Property of Equality		
Division Property of Equality		
Distributive Property		
Identity – Infinitely Many Solutions		
x + 2 = x + 2		
No Solution		

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Equations and Inequalities - Pre-3 $5(x-2) \ge 9x - 3(2x-4)$ 4(2x-1) > 3x - 2(3x-5)Examples Compound Inequalities are formed by joining two inequalities with a connective word such as "and" or "or". **Example:** 2x < 4 and 3x - 2 > -82x + 3 > 5 or x + 2 < 5The solution set of a compound inequality with the connective word "and" is the set of all elements that the inequalities have in common.....this is called an intersection Solve: 2x < 6 and 3x + 2 > -4**Compound Inequalities** The solution set of a compound inequality with the connective word "or" is the set of all elements for both inequalities.....this is called a union 2x + 3 > 7 or 4x - 1 < 3

	1 < 3x - 5 < 4	11-2x > -3 and $7-3x < 4$
N N		
	3-4x > 7 or $4x+5 < 9$	3 1 7
		$-\frac{1}{8} \leq 1 - \frac{1}{4}x \leq \frac{1}{2}$