	Name:		
Cor	Comparing Equations with ONE solution, NO solution, or INFINITE solutions Activity		
	For this activity you will need: *this paper *your partner *a pencil *5 different colored crayons or colored pencils (choose light colors) *a calculator		
<u>Directi</u>	ons (check off the box for each step as you go):		
1)	Draw a vertical line through the equals sign in each equation to separate the left and right sides. \Box		
2)	Use one of your colors to put a box around each VARIABLE term in every equation. Be sure to include		
	the entire coefficient for that term! Don't leave out negatives! \Box		
3)	Use your second color to put a box around each CONSTANT term in every equation. Don't leave out negatives! \Box		
4)	Use your third color to write "1" next to the equations that will have ONE solution. Solve those		
,	equations. \square		
5)	Use your fourth color to write "NONE" next to the equations that will have NO solution. Then explain		
	how you know it will have no solution. \square		
6)			
	Then explain how you know it will have infinite solutions. \Box		
7)	Answer this question: How can you tell by LOOKING at an equation whether you will have one, none, or infinite solutions? \Box		
8)	Answer this question: Explain what you would have to do with the equation $2(6x - 6) = 4(3x - 2)$ to be able to tell how many solutions it will have?		

7x - 6 = 7x - 5	2x + 6 = x + 10
2x + 1 = 2x + 1	9x - 1 = 5x + 7
9 – 5x = 9 – 5x	5x + 3 = 5x - 13
4 - 3x = 7 - 3x	4x + 8 = 3x + 20
7x + 12 = -3x + 52	13x + 100 = 13x + 100