Unit 0 Back to Basics Review

Name: _____

Homework: Always Sometimes Never Activity Day

Date: _____ Hour: ____

1) For each of the following statements, indicate whether it is 'Always true', 'Never true', or 'Sometimes true'. Circle the correct answer. If you choose 'Sometimes true' give an example of when it is true and a counterexample to show when it is not true.

x + 2 = 3	Always True	Sometimes True	Never True
	Example:		
	Counterexample: _		
x - 12 = x + 30	Always True	Sometimes True	Never True
	Example:		
	Counterexample: _		
2(x+6) = 2x + 12	Always True	Sometimes True	Never True
	Example:		
	Counterexample: _		
3(x-2)=3x-2	Always True	Sometimes True	Never True
	Example:		
	Counterexample: _		
$\frac{7}{8}x = \frac{1}{2}x + \frac{3}{8}x$	-	Sometimes True	
	Counterexample: _		
6(x-5) = 2(4x-15)	Always True	Sometimes True	Never True
	Example:		
	Counterexample: _		
$\frac{x+29}{3} = x+7$	Always True	Sometimes True	Never True
3	Example:		
	Counterexample: _		

2)	Write down an example (that has NOT been used) of an equation that has:		
	a) One solution		
	b) An infinite number of solutions		
	c) No solution		
3)	3) Which of the equations in question 2 are also identities?		
4)	In your own words, evalois what is moont by an identity		
4)	In your own words, explain what is meant by an identity.		