Name:_____ Date:_____ Period:_____

Types of Solutions

Team Members:

Directions: Clear your desk. Sort the equations into 3 categories. Try to reach consensus as a team for each equations. All team members must be prepared to justify and explain. Show all work on the team paper.

Always True	Sometimes True	Never True
$3(x+3)=3x+9$	B. $3x=9x$	A. $2(x-3)=2x-3$
$x(x+1)=x^2+x$	G. $2x+3=3x+2$	D. $2x+1=2x-4$
$4(x+2)=4x+8$	I. $4x+2=10$	H. $2x=2x+3$
	J. $2x+1=3x$	O. $-5x=-5x+2$
	K. $3(x-3)=-3x+9$	
	L. $x+3=3$	
	M. $x+6=2x+6$	
	N. $3x-4=-3x+2$	

No solution : variables match on both sides only
Infinite solution : both variables and terms match
One solution : variables do not match on both sides

1) Type of Solution	Equation
No Solution	2x + 5 = _____
One Solution	2x + 5 = _____
Infinitely Many Solutions	2x + 5 = _____

2) Type of Solution	Equation
No Solution	_____ = 8
One Solution	_____ = 8
Infinitely Many Solutions	_____ = 8

3) Type of Solution	Equation
No Solution	4(2x+3) = _____
One Solution	4(2x+3) = _____
Infinitely Many Solutions	4(2x+3) = _____