Name_____ Date_____

SYSTEMS of EQUATIONS

SUBSTITUTION METHOD

1	$y = 6x + 19$ $4x + 4y = -8$	$(-3,-1)$ SILVER	$(1,-3)$ LIGHT PURPLE	$(3,1)$ WHITE	$(-3,1)$ YELLOW
2	$8x + 8y = -24$ $x = -6y - 3$	$(0,-3)$ DARK BLUE	$(-3,0)$ ORANGE	$(3,-3)$ GOLD	$(-3,-3)$ RED
3	$4x + 3y = -22$ $y = 3x + 10$	$(-4,2)$ PURPLE	$(4,-2)$ DARK GREEN	$(-2,-4)$ BLUE	$(-4,-2)$ BLACK
4	$4x - 2y = 32$ $x = -6y + 8$	$(0,8)$ YELLOW	$(8,-8)$ GREEN	$(0,-8)$ PINK	$(8,0)$ PURPLE
5	$x = -7y - 6$ $-4x + 6y = -10$	$(1,-1)$ PINK	$(1,1)$ BLACK	$(-1,-1)$ LIGHT PURPLE	$(-1,1)$ ORANGE
6	$x + y = 12$ $-3x + 7y = 14$	$(7,5)$ GREEN	$(7,-5)$ PURPLE	$(5,-7)$ YELLOW	$(-7,5)$ DARK BLUE
7	$-6x + 2y = -4$ $x - y = -2$	$(-2,4)$ GOLD	$(2,4)$ BLUE	$(2,-4)$ WHITE	$(4,2)$ SILVER
8	$3x - y = 7$ $x + y = -11$	$(-10,1)$ WHITE	$(-1,10)$ ORANGE	$(-1,-10)$ RED	$(1,-10)$ DARK GREEN
9	$x - 7y = -9$ $-x + 8y = 10$	$(-2,-1)$ ORANGE	$(-2,1)$ DARK BLUE	$(1,-2)$ PINK	$(2,1)$ BLUE
10	$7x + y = 14$ $8x + 3y = 16$	$(-2,0)$ PURPLE	$(0,2)$ RED	$(2,1)$ GREEN	$(2,0)$ WHITE
11	$-10x + 8y = -1$ $5x - 4y = -9$	*no solution* DARK GREEN	*infinite number of solutions* YELLOW	$(0,0)$ RED	$(-1,-9)$ ORANGE
12	$3x + 8y = -22$ $6x - y = -10$	$(-2,2)$ DARK BLUE	$(2,-2)$ BLACK	$(-2,-2)$ LIGHT PURPLE	$(2,2)$ PURPLE
13	$2x - 3y = -5$ $-4x + 6y = 10$	*no solution* PINK	$(-5,0)$ GREEN	*infinite number of solutions* GOLD	$(10,0)$ BLUE
14	$9x + 2y = -3$ $-9x - y = -3$	$(1,-6)$ SILVER	$(1,6)$ WHITE	$(-6,1)$ RED	$(-1,-62)$ DARK GREEN