Name_____ Date_____

Systems of Inequalities Color by Number

Directions: Solve each system of inequalities below. Then, if the given point is a possible solution, color in the number of the problem on the picture in a dark color. If the given point is *not* a solution, color the number of the problem on the picture in a light color. Use the same two colors for all your coloring. Graph each system on the graphs provided.

System of Inequalities	Point	Solution (yes or no)
1. $2y > 8x - 6$ $y \geq -2x + 3$	$(1, 2)$	
2. $5x + y \geq 3$ $y > -2$	$(2, 3)$	
3. $3y < 9$ $x + y \leq 1$	$(2, 4)$	
4. $y \geq x - 3$ $4x + 4y \geq -4$	$(-3, 3)$	
5. $x \leq -3$ $3y \geq -5x - 9$	$(-4, -1)$	
6. $4x - 3y < 9$ $\frac{1}{3}x + y > 2$	$(0, 2)$	
7. $x + y > 2$ $2x - y > 1$	$(4, 2)$	
8. $x + y \geq 2$ $2x + \frac{1}{2}y \geq -\frac{1}{2}$	$(1, 0)$	
9. $3y > -4x - 6$ $x - 3y \leq -9$	$(0, 4)$	
10. $\frac{1}{2}y < -1$ $-x - y \geq -1$	$(5, -3)$	
11. $6x + 2y \geq -6$ $2y \leq -x + 4$	$(-1, 2)$	
12. $x + y \geq -3$ $x + y \leq 3$	$(-4, -2)$	

LIVEWORKSHEETS