Algebra 1- Week 13 Homework

Monday-

- 1. **Graphing Linear Systems of Equations**: Graph both equations in y = mx + b format (m=slope, rise/run; b=y-intercept, start value). One solution- where they intersect; no solutions- parallel lines, will never intersect; infinite solutions- same exact line.
- 2. Solving Linear Systems of Equations with Substitution: Take one equation in the system and replace a variable in the other equation with itself. (Ex: y = 2x+1 and 2x + 4y = 14 --> 2x + 4(2x + 1) = 14)
- 3. Solving Linear Systems of Equations with Elimination: Eliminate a variable (x or y). In order to do so, the coefficient MUST form a zero pair when the equations are added or subtracted. You may need to multiply the entire equation by a constant in order to make a zero pair. (Ex: x + y = 14 and 2x y = 2, add them together (x + y = 14) + (2x y = 1) ---> (x + 2x) + (y y) = (14 + 1) --> 3x = 15 ---> x = 5)
- 4. **Systems of Equations: Real World Applications:** Write two equations from a scenario either in slope -intercept form (y = mx + b, where m = slope / constant rate of change / "per", and b = start value) or in standard form (Ax + By = C, where C = total, and A and B = the values being added). Then using one of our methods to solve a system of equations (graphing, substitution, or elimination).

Tuesday/Wedensday- Test! No Homework!

Thursday-

Solve the two problems below. Then, describe the similarities and differences in their solution using at least 4 sentences.

3x + 4 = 2x + 6	3x + 4 < 2x + 6			

Name:	Date:	Date:			_Block:		
Friday-		ð	r				
 Graph the inequality Y the coordinate plane to 	≤ ¼x+ 2 on the right.						
2. Name two points that lie set.	e in the solution	4					
					+		

3. Is the point (0,2) in the solution set of this inequality? Justify your response in complete sentences.

