Inequalities – Day 1
Notes

Name _____
Date _____ Period _____

Solving Inequalities

$<$	$\leq$	$>$	$\geq$
• less than • fewer than	• less than or equal to • no more than • at most	• greater than • more than	• greater than or equal to • no less than • at least

Solve and graph the following inequalities. Then write what the solution is using a complete sentence.

1. $2x \geq 12$

2. $8 + 3x \leq 2x$

3. $4x + 3 < -13$

4. $7 - 3x \geq 22$

5. $10 + 6x - 2x > 50$

6. $-2(x + 3) > -22$

7. $\frac{2}{3}x > 10$

8. $9 - 2x \leq 6x - 15$

9. $6 + 3x \geq 12 - x$

Use each scenario to write an inequality that can be used to solve the situation, but DO NOT SOLVE!!

10. Fred, the farmer, has started a savings account for a tractor. He saved $600 last month and plans to add $100 each month until he has saved more than $2000. Write an inequality in terms of the number of months, m, that he has to save for the tractor.

11. Gaby the gabber likes to text messages to her friends using her cell phone. She is charged $0.10 each time she types a message plus $50 for the phone plan. She is only allowed to have a bill that is at most $60. Write an inequality in terms of the number of messages, m, that she can text each billing cycle.