Solving Inequalities

ALGEBRA   **Name:**

Review   **Period:** _____   **#:** _____

RULE – MEMORIZE THIS!!!!

**If you MULTIPLY or DIVIDE <u>BOTH SIDES</u> of an inequality by
a NEGATIVE number, you must
REVERSE THE DIRECTION OF THE INEQUALITY!!!!!!**

Solve each inequality and graph on the number line. Show all work!

1. $m + 7 < 15$ 2. $5m \leq 20$

3. $x - 2 \geq 2.5$ 4. $-10x < 20$

5. $5 < b + 10$ 6. $\dfrac{x}{3} \leq 3$

7. $x - 25 \leq -20$

8. $4 < \dfrac{x}{-2}$

9. $-7x \leq 49$

10. $b + 4 > -2$

11. $\dfrac{x}{-5} \geq -2$

12. $\dfrac{x}{7} \geq -1$

13. $c - 10 < -5$

14. $-7m \geq -28$