

Name _____ Date _____ Period _____

3.1 – Solving Inequalities

Solve each simple linear inequality. Graph each solution on the number line provided.

1. $6x + 7 > 11$



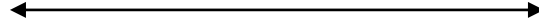
2. $4 + x \leq 19$



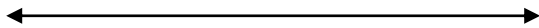
3. $9 - x < 4$



4. $3 - 2x \geq 15$



5. $2x - 3 \geq 6 - x$



6. $-x + 5 < 3x + 1$



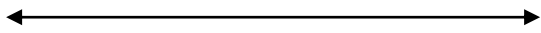
7. $2 + 3(x + 5) \geq 4(x + 3)$



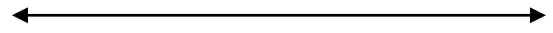
8. $4(x - 5) > 5 - x$



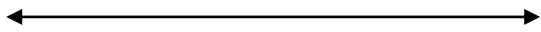
$$9. 4x + 7 > 5x + 1(16 - 2x)$$



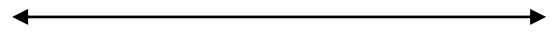
$$10. 4x - 2 > -7(4x - 2)$$



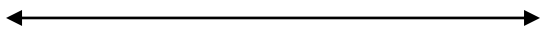
$$11. 3(9x + 4) < 35x - 4$$



$$12. 4(x - 7) + 6 \leq 22$$



$$13. 7(7x - 9) \leq 84$$



$$14. 2x + 4 > 36$$

