

Name:

Date:

Topic:

Class:

Main Ideas/Questions

Notes/Examples

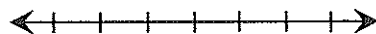
MULTI-STEP INEQUALITIES

REMEMBER:

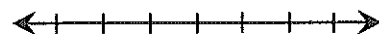
You must **FLIP** the inequality symbol if you multiply or divide by a negative number!

Directions: Solve each inequality and graph the solution.

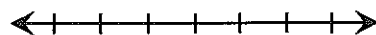
1. $3(x - 4) > -18$



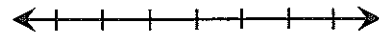
2. $-2(a - 7) - 3a \geq -31$



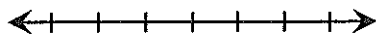
3. $16 - 4(k + 5) > -64$



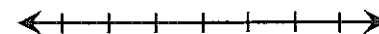
4. $\frac{4}{3}(6y + 21) - 17 \geq 43$

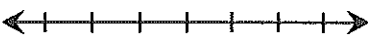
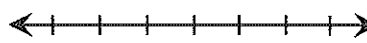
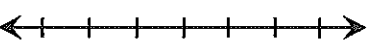
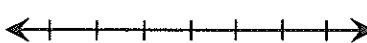
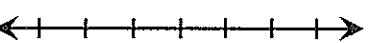
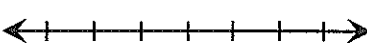


5. $2w - 9 \geq 8w - 3$



6. $10 - r < 2r - 26$



	7. $-2(2m+9) > 2(5-4m)$ 	8. $-3(3p-1) \leq 7p+51$ 
	9. $\frac{1}{2}(6c-14) \geq 5(c+6)+1$ 	10. $13-(17-9v) > 4(v-1)$ 
	11. $-2(4n-7) \leq 10-3(n-8)$ 	12. $-n+2-n < -\frac{2}{3}(9n-63)$ 
Directions: Solve each inequality. Then, check each number that is a solution.		
	13. $5x-16 < -64-x$ ☐ -10 ☐ -9 ☐ -8 ☐ -7 ☐ -6	14. $-7(k-4) \leq -1-2(8-k)$ ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8