

Name: \_\_\_\_\_

Unit 3

Date: \_\_\_\_\_

# WS #1 Solving Inequalities

|    |     |
|----|-----|
|    |     |
| 20 | 100 |

*Directions: Solve and graph the solution set. Indicate a scale.*



1.  $3x \leq 9$



2.  $4x - 3 \geq 13$



3.  $4x - 3 < 13$



4.  $5x + 10 > 14x - 8$



5.  $2x - 6 < 2$



6.  $2x - 5 \leq x - 2$



7.  $3x - 14 \geq 2 - 5x$



8.  $-2x + 5 < 17 + x$



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



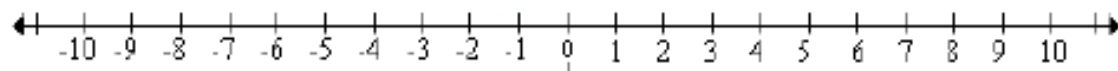
10.  $5x \geq -35$



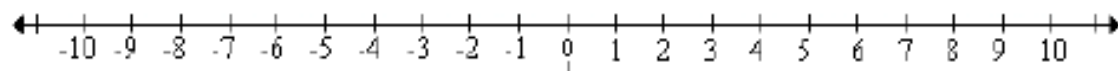


Solve the following inequalities and graph the solution sets on the number lines.  
Please show work.

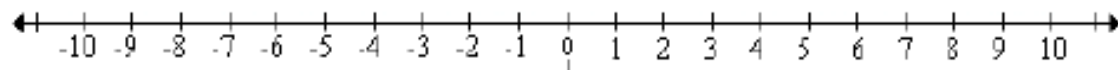
1.  $x - 4 > 1$



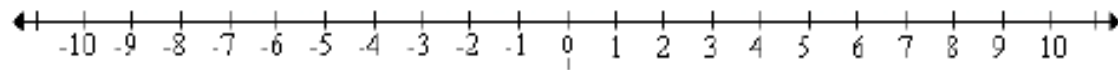
2.  $x + 1 \leq 4$



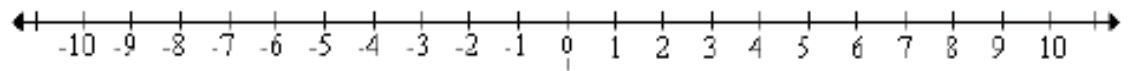
3.  $4y \geq 8$



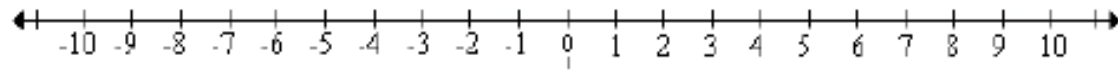
4.  $-5w < 10$



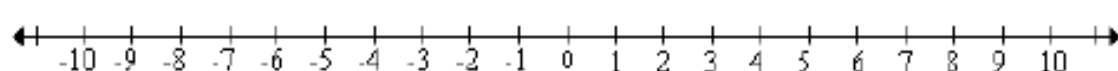
5.  $4x > -28$



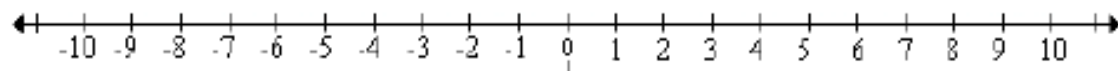
6.  $27 > -9y$



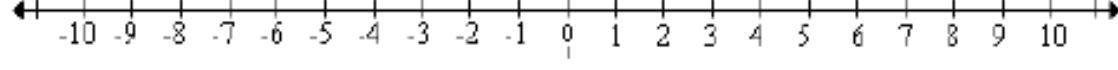
7.  $2y + 7 < 17$



8.  $2(2x - 8) - 8x \leq 0$



9.  $5x + 4 \leq 11 - 2x$



10.  $5x - (x - 8) > 9 + 3(2x - 3)$

