

## 5.1 -5.4 Day 2 Classwork

Name \_\_\_\_\_

Solve each inequality. Do NOT graph the solution. SHOW ALL YOUR WORK!

1)  $\frac{n}{16} < -3$

2)  $\frac{x}{5} > -\frac{6}{5}$

3)  $b + 13 \geq 23$

4)  $14 > v + 8$

5)  $x - 20 \geq -26$

6)  $-1 \geq n - 19$

7)  $-6(7 + a) < 24$

8)  $-8 \leq -9 + \frac{k}{9}$

9)  $-7 < -8 + \frac{x}{9}$

10)  $-2 < \frac{n+4}{7}$

11)  $-3 - 7r \geq -24$

12)  $\frac{m-9}{5} \geq -5$

13)  $-2 < 2(p + 4)$

14)  $8x - 2(6 + 6x) > -44$

15)  $7(1 + n) \leq -28$

16)  $8(m + 1) - 8m \leq 7$

17)  $-17 < r - 10 < -14$

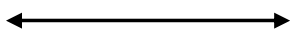
18)  $x + 3 > 4$  or  $\frac{x}{3} < -2$

19)  $0 < \frac{n}{2} < 1$

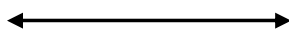
20)  $10b \leq -60$  or  $\frac{b}{7} \geq 0$

**Graph each inequality.**

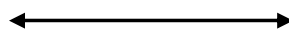
21)  $x > -8$



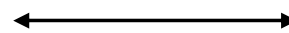
22)  $x \leq 4$



23)  $-8 < x < 10$



24)  $x < -4$  or  $x \geq 2$



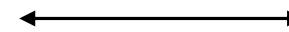
25)  $x > 13$



26)  $x \geq -4$  or  $x \leq -6$



27)  $11 < x \leq 20$



28)  $x > 4$  or  $x < -1$

