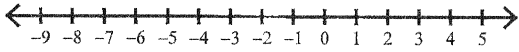


## Compound Inequalities Day 2

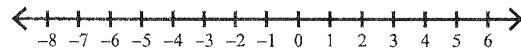
Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each compound inequality and graph its solution.**

1)  $8x + 8 \leq -24$  or  $10x - 8 \geq -8$



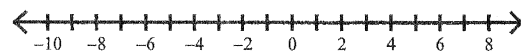
2)  $-10a + 9 > 39$  or  $9 - 7a < -5$



3)  $-50 \leq 8k - 2 \leq -34$



4)  $-8p + 4 < -36$  or  $-5p - 10 \geq 20$

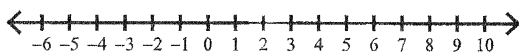
**Solve each equation.**

5)  $|6a| = 42$

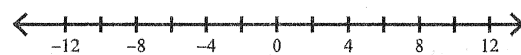
6)  $|-1 + n| = 5$

**Solve each compound inequality and graph its solution.**

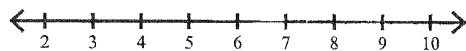
7)  $4x + 3 < 35$  and  $2x + 1 \geq -9$



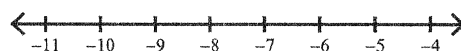
8)  $8 + 9n > 80$  or  $n + 7 \leq -2$

**Solve each inequality and graph its solution.**

9)  $-120 \geq -8(2n + 3)$



10)  $84 \geq -3(2x - 6) - 5x$

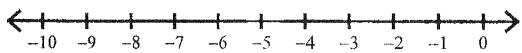
**Solve each equation.**

11)  $10|7x| + 4 = 74$

12)  $5 + 6|-5p| = 35$

Solve each compound inequality and graph its solution.

13)  $-44 < 1 + 5m < -4$



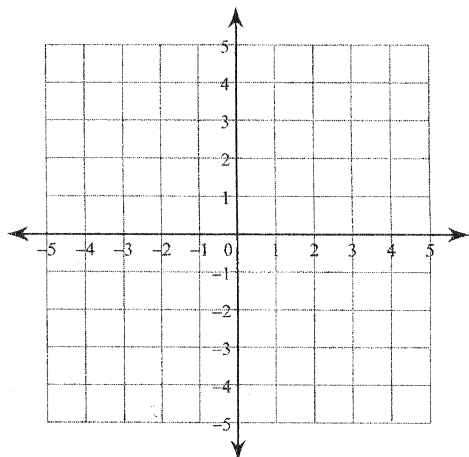
14)  $-109 \leq -9 + 10r < -49$



Solve each system by graphing.

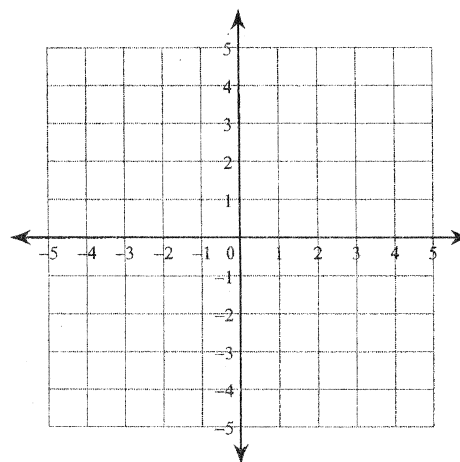
15)  $y = \frac{1}{3}x - 3$

$y = -\frac{4}{3}x + 2$



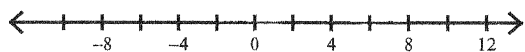
16)  $y = -\frac{1}{2}x + 2$

$y = x - 1$



Solve each compound inequality and graph its solution.

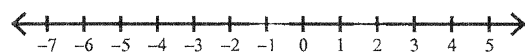
17)  $6x + 5 > 59$  or  $10 - 3x > 31$



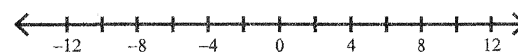
18)  $-3n - 6 \geq 0$  and  $7n + 7 > -28$



19)  $9 - 3v \leq 24$  and  $9v + 4 < 22$



20)  $2b - 3 \leq -21$  or  $5 - 9b < -76$



Solve each inequality and graph its solution.

21)  $12 > k + 14$



22)  $\frac{a}{6} \geq -14$

