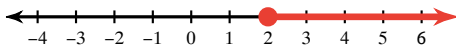


## Practice With Inequalities

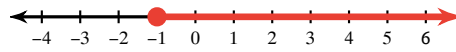
Solve each inequality and graph its solution.

1)  $38 \leq -4(n - 1) + 6(-5 + 6n)$



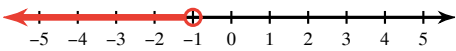
$n \geq 2$

2)  $10 \leq -2(a + 2) + 3(4a + 8)$



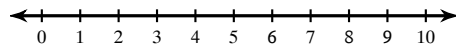
$a \geq -1$

3)  $78 < 6(1 - 7x) - 5(1 + 7x)$



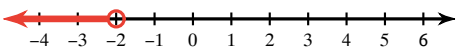
$x < -1$

4)  $6(x - 1) < 2(3x - 3)$



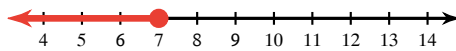
No solution.

5)  $-8 + 2(2 + 7a) < -8a - 6(6 - a)$



$a < -2$

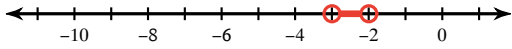
6)  $4x - 4 + x + 4 \geq 5(x - 6) + 5(2x - 8)$



$x \leq 7$

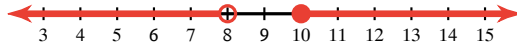
Solve each compound inequality and graph its solution.

7)  $-21 < -9 + 4k < -17$



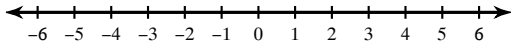
$-3 < k < -2$

8)  $8x - 10 \geq 70$  or  $4 + 9x < 76$



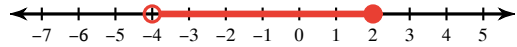
$x \geq 10$  or  $x < 8$

9)  $-33 < 7 - 8x \leq -57$



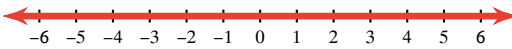
No solution.

10)  $-38 < 10n + 2 \leq 22$



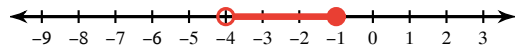
$-4 < n \leq 2$

11)  $10v + 10 \geq -10$  or  $v + 9 \leq 18$



{ All real numbers. }

12)  $6 \geq 7 + n > 3$



$-4 < n \leq -1$