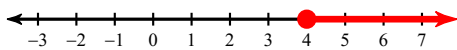


Multi-Step Inequalities

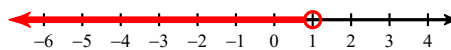
Solve each inequality and graph its solution.

1) $8 \leq 6k - 4k$



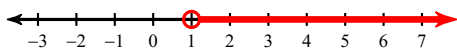
$k \geq 4$

2) $-4 < 1 - 6x + 1$



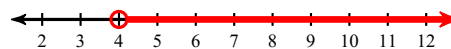
$x < 1$

3) $-3 - 4x - 5 < -12$



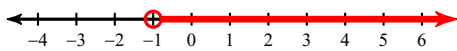
$x > 1$

4) $11 < 2a - 5 + 2a$



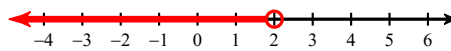
$a > 4$

5) $a - 4a < 3$



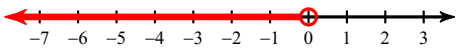
$a > -1$

6) $-40 - 4m < -7(1 + 3m) + 1$



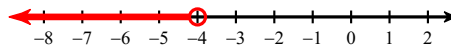
$m < 2$

7) $-4p - 13 < -2(7 + 5p) + 1$



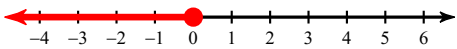
$p < 0$

8) $38 + 5n < -2(3n + 3)$



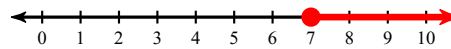
$n < -4$

9) $4x - 7(1 + 7x) \geq -7 - 5x$



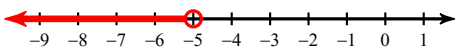
$x \leq 0$

10) $3(1 - 2r) \geq -7r + 10$



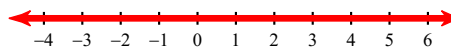
$r \geq 7$

11) $-2n - 6 < -4(n + 4)$



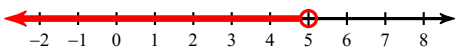
$n < -5$

12) $4 + 4v \geq 4(1 + v)$



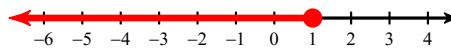
$\{ \text{All real numbers.} \}$

13) $8 - n > 7n - 2(3n + 1)$



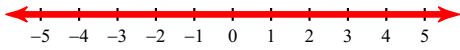
$n < 5$

14) $-37 - 8x \leq -5(1 + 8x)$



$x \leq 1$

$$15) -6 - 8p > -2(4p + 4)$$



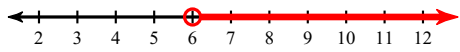
{ All real numbers. }

$$16) 6n + 6(1 - 9n) < -12(-9 + 4n)$$



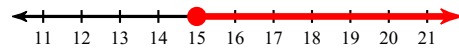
{ All real numbers. }

$$17) 6(4x + 7) < -6(5 - 6x)$$



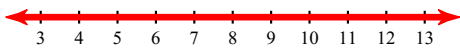
$x > 6$

$$18) -10 - 10(k + 4) \geq -2(-5 + 7k)$$



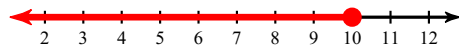
$k \geq 15$

$$19) -12(1 - v) + 2v \leq 2(7v - 5)$$



{ All real numbers. }

$$20) 10m - 12(m - 9) \geq 8(m + 1)$$



$m \leq 10$