

## 2.4 Exercises

Solve each inequality, then graph the solution. See Examples 1-5.

1.  $4x > 8$

4.  $5k \leq -15$

7.  $\frac{3k-1}{4} > 2$

10.  $-\frac{2}{3}y < -10$

13.  $-1.3m > 3.9$

16.  $\frac{3z-2}{-5} \leq 4$

19.  $-4x + 3 < 15$

22.  $-6 < x + 1 < 8$

25.  $-19 \leq 3x - 5 \leq -9$

28.  $-8 \leq \frac{3m+1}{4} \leq 3$

31.  $3(x+2) - 5x < x$

34.  $-2(m-4) \leq -3(m+1)$

2.  $6y > 18$

5.  $3r + 1 \geq 16$

8.  $\frac{5z-6}{8} < 3$

11.  $-\frac{3}{2}y \leq -\frac{9}{2}$

14.  $-2.5y \leq -7.5$

17.  $-r \leq -7$

20.  $-6p - 2 \geq 16$

23.  $-6 \leq 2z + 4 \leq 12$

26.  $-16 < 3t + 2 < -11$

29.  $4.2817z \geq -13.27327$

32.  $2(3k-5) + 7 > k + 12$

35.  $-(4+r) + 2 - 3r < -10$

3.  $2m \leq -6$

6.  $2m - 5 \geq 15$

9.  $-\frac{3}{4}r \geq 21$

12.  $-\frac{2}{5}x \geq -4$

15.  $\frac{2k-5}{-4} > 1$

18.  $-m > -12$

21.  $-3 < x - 5 < 6$

24.  $-15 < 3p + 6 < -9$

27.  $-4 \leq \frac{2x-5}{6} \leq 5$

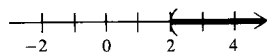
30.  $9.1428p < -7.31424$

33.  $y + 4(2y-1) \geq 5y$

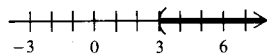
36.  $-(9+k) - 5 + 4k \geq 1$

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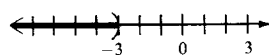
1.  $(2, +\infty)$



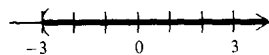
7.  $(3, +\infty)$



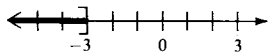
13.  $(-\infty, -3)$



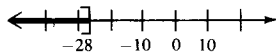
19.  $(-3, +\infty)$



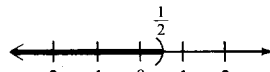
3.  $(-\infty, -3]$



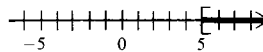
9.  $(-\infty, -28]$



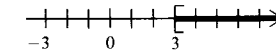
15.  $(-\infty, 1/2)$



5.  $[5, +\infty)$



11.  $[3, +\infty)$



17.  $[7, +\infty)$

