

Paper Practice 6.1

Solving One-Step Inequalities

Example 1

Graph the solution set of each inequality.

1. $x > -4$

2. $y \leq 6$

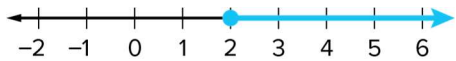
Example 2

Write an inequality that represents each graph.

3.



4.



Examples 3–5

Solve each inequality. Write your solution in set builder notation.

5. $a + 7 > 10$

6. $b - 2 \leq -8$

7. $9j \leq 8j - 7$

8. $1 \leq d + 4$

9. $-6 + g > -8$

10. $3h + 5 < 4h$

- 11.** Stella ran her first half marathon in 2.7 hours. By how many hours must Stella reduce her time to run her next half marathon in fewer than 2.3 hours? Write and solve an inequality to represent the situation.

- 12.** Erika is driving from Austin, Texas, to Denver, Colorado. She has driven at least 306 miles and is approximately one-third of the way to Denver. What is the distance, in miles, from Austin, Texas, to Denver, Colorado?

13. $\frac{1}{5}z > -4$

14. $3w \geq -15$

15. $2 > \frac{x}{-4}$

16. $80 \geq -5t$