

GUIDED PRACTICE

1. **Vocabulary** How is a *solution of an inequality* like a solution of an equation?

SEE EXAMPLE 1 Describe the solutions of each inequality in words.

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2. $g - 5 \geq 6$

3. $-2 < h + 1$

4. $20 > 5t$

5. $5 - x \leq 2$

SEE EXAMPLE 2 Graph each inequality.

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6. $x < -5$

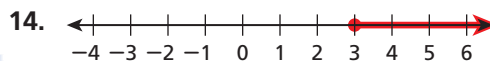
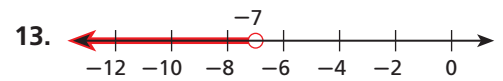
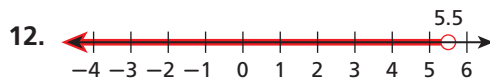
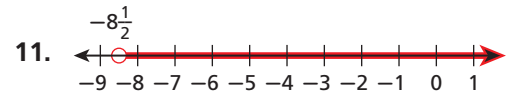
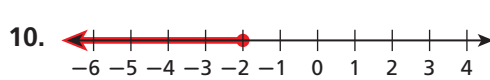
7. $c \geq 3\frac{1}{2}$

8. $(4 - 2)^3 > m$

9. $p \geq \sqrt{17 + 8}$

SEE EXAMPLE 3 Write the inequality shown by each graph.

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SEE EXAMPLE 4 Define a variable and write an inequality for each situation. Graph the solutions.

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16. There must be at least 20 club members present in order to hold a meeting.

17. A trainer advises an athlete to keep his heart rate under 140 beats per minute.

PRACTICE AND PROBLEM SOLVING

Independent Practice

For Exercises	See Example
18–21	1
22–25	2
26–31	3
32–33	4

Describe the solutions of each inequality in words.

18. $-2t > -8$

19. $0 > w - 2$

20. $3k > 9$

21. $\frac{1}{2}b \leq 6$

Graph each inequality.

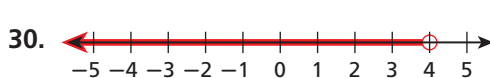
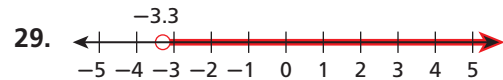
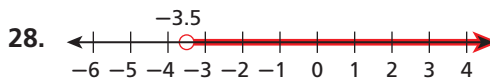
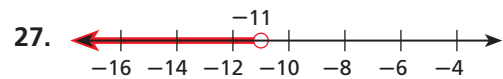
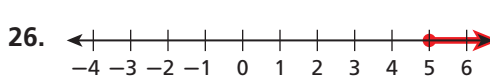
22. $7 < x$

23. $t \leq -\frac{1}{2}$

24. $d > 4(5 - 8)$

25. $t \leq 3^2 - 2^2$

Write the inequality shown by each graph.



Define a variable and write an inequality for each situation. Graph the solutions.

32. The maximum speed allowed on Main Street is 25 miles per hour.

33. Applicants must have at least 5 years of experience.

Extra Practice

Skills Practice p. S8

Application Practice p. S30