



GUIDED PRACTICE

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

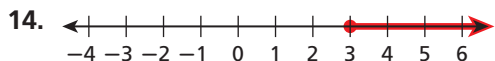
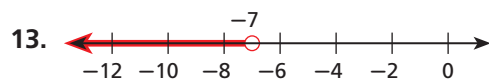
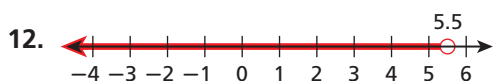
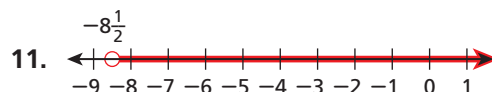
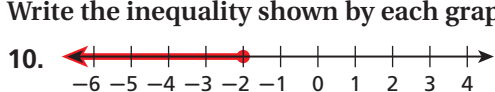
SEE EXAMPLE 1 Describe the solutions of each inequality in words.

2. $g - 5 \geq 6$ 3. $-2 < h + 1$ 4. $20 > 5t$ 5. $5 - x \leq 2$

SEE EXAMPLE 2 Graph each inequality.

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.



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

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

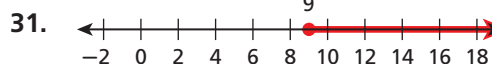
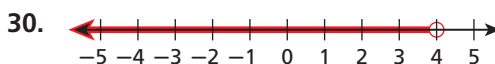
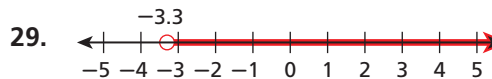
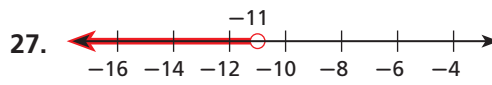
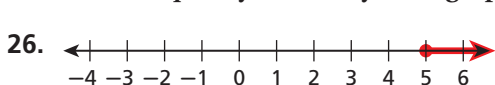
Describe the solutions of each inequality in words.

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.

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Online Extra Practice