Quiz for Lessons 3-1 Through 3-3

3-1 Graphing and Writing Inequalities

Describe the solutions of each inequality in words.

1. $-2 < r$ **2.** $t - 1 \leq 7$ **3.** $2s \geq 6$ **4.** $4 > 5 - x$

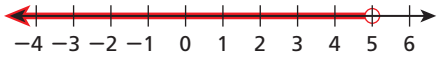
Graph each inequality.

5. $x > -2$ **6.** $m \leq 1\frac{1}{2}$ **7.** $g < \sqrt{8 + 1}$ **8.** $h \geq 2^3$

Write the inequality shown by each graph.

9.

10.



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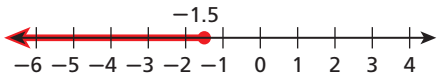

Write an inequality for each situation and graph the solutions.

12. You must purchase at least 5 tickets to receive a discount.

13. Children under 13 are not admitted to certain movies without an adult.

14. A cell phone plan allows up to 250 free minutes per month.

3-2 Solving One-Step Inequalities by Adding and Subtracting

Solve each inequality and graph the solutions.

15. $k + 5 \leq 7$ **16.** $4 > p - 3$ **17.** $r - 8 \geq -12$ **18.** $-3 + p < -6$

19. Allie must sell at least 50 gift baskets for the band fund-raiser. She already sold 36 baskets. Write and solve an inequality to determine how many more baskets Allie must sell for the fund-raiser.

20. Dante has at most \$12 to spend on entertainment each week. So far this week, he spent \$7.50. Write and solve an inequality to determine how much money Dante can spend on entertainment the rest of the week.

3-3 Solving One-Step Inequalities by Multiplying and Dividing

Solve each inequality and graph the solutions.

21. $-4x < 8$ **22.** $\frac{d}{3} \geq -3$ **23.** $\frac{3}{4}t \leq 12$ **24.** $8 > -16c$

25. A spool of ribbon is 80 inches long. Riley needs to cut strips of ribbon that are 14 inches long. What are the possible numbers of strips that Riley can cut?