Name: _____

PRACTICE TUTORIAL

5-4 Additional Practice

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1. Solve: $x - 8 \geq -3$

Graph the solutions.

2. Solve: $x + 9 < 12$

Graph the solutions.

3. Solve each inequality using the Subtraction Property of Inequality.

a. $x + 8 < 20$ **b.** $d + 13 \geq 19$ **c.** $v + 20 > 7$

4. Solve each inequality using the Addition Property of Inequality.

a. $y - 6 \geq 22$ **b.** $g - 13 < 19$ **c.** $p - 20 \leq 7$

5. Chris pays a fee if her bank balance falls below $10 on the statement date. Prior to the statement date, her balance was −$3.46. Then, Chris made a deposit, d, in ample time, so she did not have to pay a fee.

a. Write an inequality to represent this situation.

b. Solve the inequality. Describe the meaning of the solution.

6. Construct Arguments Haley solves the inequality $-13 \geq r + 7$ and graphs the solution on a number line with a solid circle at -20 and an arrow pointing left. Is she correct? Support your answer, and give the correct description if she is incorrect. MP.3

7. Beginning from a depth of 35 feet below the surface, a whale swims upward and jumps to a height of nearly 17 feet above the surface.

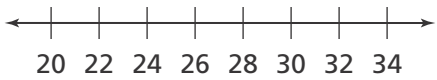
a. Model with Math Use an inequality to model the possible change in the number of feet, r, of the whale's elevation. MP.4

b. Solve the inequality. Explain the meaning in terms of the situation.

8. Higher Order Thinking Diego's neighbors paid him to take care of their fish when they went on vacation. He spent \$13 of his earnings on a book and \$9 on some art supplies. Afterward, he had at most \$10 left. Write an inequality to represent how much Diego's neighbors paid him. Then solve the inequality.

Assessment Practice

9. Solve the inequality $53 \geq x + 29$. Then graph the solution.



10. After pitching $6\frac{2}{3}$ innings in his latest game, Barron has pitched more innings than his $82\frac{1}{3}$ innings pitched last season. How many innings, x, might he have pitched before his latest game?

PART A

Write the inequality that models the situation.

PART B

Write the correct solution of the inequality.