Name _____ Class _____ Date _____

✔ Checkpoint Quiz 1

Use with Lessons 3-1 through 3-3.

Solve each inequality. Graph the solution.

1. $8 < x + 2$
2. $7x < -49$
3. $\frac{x}{5} \leq -6$
4. $x - 6 \geq -3$
5. $11 + x < 4$
6. $-4x \leq 20$
7. Is each number a solution of $y + 8 \leq 5$?

   a. -3 **b.** 0 **c.** $-\frac{13}{4}$ **d.** -2.9

8. Is each number a solution of $-7x < -21$?

   a. 3 **b.** 0 **c.** $\frac{8}{3}$ **d.** 4

Write and solve an inequality to model each situation.

9. Twenty-four is less than five-eighths of a number x.
10. Eight less than a number x is at least 17.

Name _____ Class _____ Date _____

✔ Checkpoint Quiz 2

Use with Lessons 3-4 through 3-5.

Solve each inequality. Graph the solution.

1. $3x + 2 > 5x - 8$
2. $3x + 11 \leq 8$
3. $10 - 3x \leq 7x$
4. $2(4x - 1) \geq 62$
5. $4 < 3x - 5 \leq 7$
6. $5 - x \geq 9$ or $3x - 4 > 8$

Write an inequality that represents each situation. Graph the solution.

7. A hamster weighs less than 10 ounces.
8. The freezer temperature is to be kept between 15°F and 25°F, inclusive.
9. At a large nursery, a border for a rectangular garden is being built. Designers want the border's length to be 5 ft greater than its width. A maximum of 180 ft of fencing is available for the border. Write and solve an inequality that describes possible widths of the garden.
10. Solve $4x + 6 \geq 34$.