Name Date

Practice A

4.3

Solve the inequality. Graph the solution.

1.  2. 

3.  4. 

5.  6. 

Write the word sentence as an inequality. Then solve the inequality.

7. Five times a number is not less than 15.

8. The quotient of a number and 4 is less than 

9. An SUV averages 16.5 miles per gallon. The maximum average number   
of miles that can be driven on a full tank of gas is 363 miles. Write and solve an inequality that represents the number of gallons in a tank.

Solve the inequality. Graph the solution.

10.  11. 

12.  13. 

14.  15. 

16. You are creating a decorative rope that is at least 20 feet long.

a. To create the rope you are using beads that are 6 inches long. Write and solve an inequality that represents the number of beads that you can use.

b. You do not have enough 6-inch beads to make the rope, so you will use 10-inch beads instead. Write and solve an inequality that represents the number of 10-inch beads that you can use.

Name Date

Practice B

4.3

Solve the inequality. Graph the solution.

1.  2. 

3.  4. 

5.  6. 

Write the word sentence as an inequality. Then solve the inequality.

7. A number divided by 5 is at least 4.

8. The product of 2 and a number is at most –6.

9. The solution of  What is the value of *c*?

Solve the inequality. Graph the solution.

10.  11. 

12.  13. 

14.  15. 

16. The height of a room is 10 feet. You are building shelving from the floor   
to the ceiling.

a. Each shelf requires 8 inches. Write and solve an inequality that represents the number of shelves that can be made.

b. You forgot to include the thickness of each shelf in your measurements. The amount of space needed for each shelf is actually 10 inches. Write and solve an inequality that represents the number of shelves that can be made.

Describe all numbers that satisfy *both* inequalities. Include a graph with your description.

17.  and  18.  and 