GUIDED PRACTICE

See Example 1 Write an inequality for each situation.

1. There are no more than 60 people in the theater.

2. The temperature of the water is above 72°F.

See Example 2 Write an inequality for each statement.

3. A number m increased by 7 is at least 15.

4. Twice a number x is less than 18.

See Example 3 Graph each inequality.

5. $x < -2$ 6. $w \geq -1$ 7. $2.5 < y$ 8. $m \leq 3\frac{1}{2}$

See Example 4 Write a compound inequality for each statement.

9. A number s is either less than -5 or greater than or equal to 3.

10. A number t is both greater than -10 and less than 1.

INDEPENDENT PRACTICE

See Example 1 Write an inequality for each situation.

11. Fewer than 10 students rode their bikes to the game.

12. No more than 18 people may ride the roller coaster at one time.

See Example 2 Write an inequality for each statement.

13. A number x decreased by 11 is less than 35.

14. Three times a number n is greater than $4\frac{1}{3}$.

15. A number y divided by 7 is at most 10.

See Example 3 Graph each inequality.

16. $m \geq -3$ 17. $s < 1.5$ 18. $-2 < x$ 19. $4 \geq y$

20. $b < -1$ 21. $x \geq 0$ 22. $n \leq \frac{1}{2}$ 23. $-2\frac{1}{2} < c$

See Example 4 Write a compound inequality for each statement.

24. A number x is both less than 1.5 and greater than or equal to 0.

25. A number c is either greater than or equal to $\frac{1}{2}$ or less than or equal to -7.

PRACTICE AND PROBLEM SOLVING

Extra Practice
See page EP7.

26. Suly earned 87 points on her first test and p points on her second test. She needs a total of at least 140 points on the two tests to pass the class. Write an inequality for this situation.