

**LESSON**  
**12-1**

**CHAPTER 12 TEST REVIEW**

**Solving Two-Step Equations**

Solve. SHOW ALL STEPS!

1.  $7x + 8 = 36$

2.  $-3y - 7 = 2$

3.  $4a - 13 = 19$

4.  $6a - 4 = -2$

5.  $5k + 2 = 6$

6.  $9m - 14 = -8$

Solve.

7.  $\frac{v}{4} - 3 = 5$

8.  $\frac{u}{5} + 3 = 1$

9.  $6 + \frac{z}{9} = 9$

10.  $-7 + \frac{f}{2} = -1$

11.  $9 + \frac{w}{4} = -5$

12.  $\frac{e}{7} - 3 = -5$

**LESSON**  
**12-4**

**Inequalities**

Write an inequality for each situation.

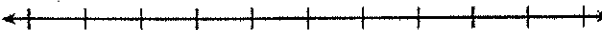
13. The temperature today will be at most 30 °F. \_\_\_\_\_

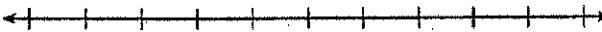
14. The temperature tomorrow will be above 85 °F. \_\_\_\_\_

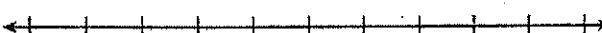
15. Yesterday, there was less than 2 inches of rain. \_\_\_\_\_

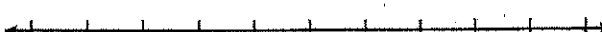
16. Last Monday, there was at least 3 inches of rain. \_\_\_\_\_

Graph each inequality.

17.  $t \leq -2$  

18.  $j > -5$  

19.  $y \leq 0$  

20.  $b < \frac{1}{2}$  

**LESSON****12-5****Solving Inequalities by Adding or Subtracting**

Solve and graph each answer on a number line.

21.  $a + 7 > 2$

22.  $h - 9 \leq 3$

23.  $v - 8 < -16$

24.  $14 + y > -7$

25.  $j - 17 \geq -8$

26.  $t + 25 \leq 9$

27. Friday's high temperature was 20 °F. Saturday's high temperature was forecast to be no more than 8 °F warmer than Friday's high temperature. According to the forecast, what are the possible high temperatures for Saturday? \_\_\_\_\_

**LESSON****12-6****Solving Inequalities by Multiplying or Dividing**

Solve.

28.  $\frac{t}{-6} < -15$

29.  $\frac{s}{-12} \leq -8$

30.  $\frac{r}{5.3} \leq 10$

31.  $8c < -96$

32.  $-15a \geq -75$

33.  $-12t > 9$

34. It cost Sophia \$840 to make bracelets. How many bracelets must she sell at \$12 apiece to make a profit?

\_\_\_\_\_

35. It cost the Wilson children \$75 to make lemonade. How many glasses must they sell at 25¢ each to make a profit?

\_\_\_\_\_

36. Jake's baseball team is having its annual fund raiser. The team hopes to earn at least three times as much as it did last year. Last year the team earned \$155. What is the team's goal for this year?

\_\_\_\_\_