

CHAPTER 12

Extra Practice

Skills

● **Lesson 12-1** Solve each equation.

1. $2a + 8 = 26$

2. $3c + 2.5 = 29.5$

3. $5b - 13 = 17$

4. $7.5d - 7 = 53$

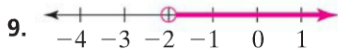
5. $4e - 1 = -93$

6. $\frac{f}{8} + 6 = 8$

7. $2 + 8g = 34$

8. $-4 + \frac{h}{4} = 4$

● **Lesson 12-2** Write an inequality for each graph.



Write an inequality to represent each situation. Then graph the inequality.

12. The temperature stayed below 0° .

13. You must bring at least \$5 to cover the cost of lunch.

14. The paintings for display can be a maximum of 12 inches wide.

● **Lesson 12-3** Solve each inequality.

15. $m + 8 < 14$

16. $n - 16 \geq 3$

17. $p + 9 \leq -5$

18. $q - 8 > 7$

● **Lesson 12-4** Find each square root.

19. $\sqrt{49}$

20. $\sqrt{81}$

21. $\sqrt{169}$

22. $\sqrt{484}$

● **Lesson 12-5** Find the missing side length of each right triangle.

23. $a = 16$, $b = 30$, $c = \blacksquare$

24. $a = 21$, $b = \blacksquare$, $c = 35$

25. $a = \blacksquare$, $b = 9$, $c = 15$

Word Problems

● **Lesson 12-1**

26. Your brother buys 4 games. Each game costs the same amount. He uses a coupon for \$5 off the total purchase price and owes the cashier \$31. How much does each game cost? Use c for the cost of one game. Use the equation $4c - 5 = 31$.

27. You deliver boxes weighing 20 pounds each to a business on the sixth floor of a building. The elevator has a weight limit of 1,500 pounds. Your weight is 180 pounds. How many boxes can you load on the elevator? Use b for the number of boxes. Use the equation $20b + 180 = 1500$.