

CHAPTER
6

Extra Practice

Skills

● **Lesson 6-1** Write an equation for each model.



Solve each equation.

3. $6n + 3 = 21$

4. $10 = \frac{m}{5} + 2$

5. $-b + 2 = -\frac{1}{2}$

6. $7g - 4 = 10$

7. $-10 = 2 + 6w$

8. $5d + 10 = 25$

9. $15 = -k + 18$

10. $4x - 2 = 8$

● **Lesson 6-2** Simplify each expression.

11. $6x + 4 - 3x$

12. $7(h - 5)$

13. $2(x + 1) + 5$

14. $-5 + 3p - p$

15. $13q + 91 - 13q$

16. $-(8z + 2z - 1)$

17. $47 - 11r - 7r$

18. $-15h - (23 - 9h)$

● **Lessons 6-3 and 6-4** Solve each equation.

19. $16 = -(2 - 2b)$

20. $k = 1.5(7 - k)$

21. $-8(3a - 5) = 56a$

22. $123 = 9y + 4 - 7y$

23. $-9 - 3y = 19 + y$

24. $30 - 5(p - 10) = 11p$

25. $14 - 2w = 18w - 26$

26. $4(2.2d - 1) - 0.8d = 23$

27. $4.1x + 1.4 - 5.1x = 6.6$

● **Lesson 6-5** Solve each inequality. Graph the solution.

28. $x - 2 \leq 10$

29. $f + 21 \leq 12$

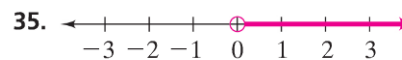
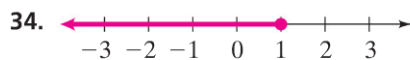
30. $p - 1 > -1$

31. $5 + a \geq -5$

32. $-12 \geq -2 + y$

33. $m + 4 < 16$

Write an inequality for each graph.



● **Lesson 6-6** Solve each inequality.

36. $7p \leq -35$

37. $-4y < 28$

38. $\frac{q}{-6} < 3.1$

39. $\frac{x}{3} < 0$

40. $\frac{z}{-1} > -11$

41. $26 \geq -2.5t$