

**Cumulative Practice**

For use after Chapter 3

**Write the product using an exponent. (Lesson 1.2)**

1.  $5 \cdot 5 \cdot 5$

2.  $24 \cdot 24$

3.  $m \cdot m \cdot m \cdot m \cdot m$

**Evaluate the expression when  $a = 3$  and  $b = 5$ . (Lesson 1.3)**

4.  $8a - 3b$

5.  $4(a + b)^2$

6.  $\frac{2a^2}{6b + 6}$

**Evaluate the expression when  $x = 7$  and  $y = -3$ . (Lesson 1.4)**

7.  $-|y| + 16$

8.  $2x + (-y)$

9.  $4|-y| - 3|x|$

10.  $-3|x|$

**Simplify. (Lessons 1.5–1.7)**

11.  $-2 + 6$

12.  $1 + (-5)$

13.  $-4 - (-13)$

14.  $-16 + (-3)$

15.  $10 - (-7)$

16.  $-20 + 9$

17.  $-21 - 11$

18.  $-1(-15)$

19.  $30 \div (-2)$

20.  $3(-60)$

21.  $\frac{-33}{3}$

22.  $-5(-20)$

**Identify the property that the statement illustrates. (Lesson 2.1)**

23.  $-3 + 8 = 8 + (-3)$

24.  $(9 \cdot 4^3) \cdot 2 = 9 \cdot (4^3 \cdot 2)$

25.  $-5b \cdot 1 = -5b$

26.  $k + 0 = k$

**Use the distributive property to write an equivalent variable expression. (Lesson 2.2)**

27.  $-9(x - 4)$

28.  $(6 + t)(-7)$

29.  $5(3y - 8)$

30.  $(2 + 4z)12$

**Write the verbal statement as an equation. Then solve the equation. (Lessons 2.4–2.6)**31. The sum of  $-5$  and  $b$  is  $15$ .32. The quotient of  $p$  and  $12$  is  $-9$ .33. The product of  $-6$  and  $x$  is  $-96$ .34. The sum of  $-a$  and  $-17$  is  $-31$ .35. The quotient of  $y$  and  $3$  is  $-4$ .36. The product of  $x$  and  $-3$  is  $90$ .

37. You are going on a school trip to the Grand Canyon. The trip costs \$1100 per student. Through your savings and fundraisers you have raised \$800 for the trip. The last fundraiser is a sandwich sale. For each sandwich you sell, you make a profit of \$3.75. How many sandwiches do you need to sell to pay for the rest of your trip? (Lessons 3.1–3.3)

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**Solve the equation. (Lessons 3.1–3.3)**

**38.**  $19 + z = 36$

**39.**  $8k + 15 = -57$

**40.**  $\frac{d}{4} - 12 = -23$

**41.**  $29n + 14 - 17n = 62$

**42.**  $18 = 2(f - 3)$

**43.**  $48 - (5x + 7) = -9$

**44.**  $5m + 31 = -53 - 9m$

**45.**  $7s + 32 = 11s$

**46.**  $13 + 12x = -6x + 49$

**47.**  $-3t + 11 = 4t - 17$

**48.**  $9(3y - 9) = 32y + 19$

**49.**  $25x + 3 = 2(10x - 36)$

**Solve the inequality. Graph your solution. (Lessons 3.4–3.6)**

**50.**  $p + 5 > 2$

**51.**  $m - 6 \leq 14$

**52.**  $9 \geq y - 3$

**53.**  $g - 17 < -9$

**54.**  $\frac{x}{2} \leq -7$

**55.**  $-13n > 78$

**56.**  $\frac{y}{-3} < 8$

**57.**  $4t \geq -60$

**58.**  $3x + 5 \leq 23$

**59.**  $15 - 3s < -6$

**60.**  $22p - 14 > 13p + 31$

**61.**  $-8 - 5w \geq w - 74$