CHAPTER 3 PRACTICE TEST

Identify the terms, coefficients, and constants of the expression.

1. $10x + 12$	2. $d^2 + 7b + 10$

Write the expression using exponents.

3. $r \cdot r \cdot r \cdot r \cdot r \cdot r$	4. $4 \cdot d \cdot d \cdot d$

Evaluate the expression when c = 6, d = 8, and e = 16.

5. $4d - 3$	6. $\dfrac{d + e}{c}$	7. $\dfrac{d^2 + 4c}{4}$

Write the phrase as an expression.

8. the sum of 25 and 14	9. a number y divided by 7
10. a number x multiplied by 3	11. 4 less than a number w

Tell which property the statement illustrates.

12. $7 \cdot m = m \cdot 7$	13. $0 + z = z$
14. $3(x - 3) = 3x - 9$	15. $(c + 1.4) + 0.5 = c + (1.4 + 0.5)$

Use the Distributive Property to simplify the expression.

16. $4(c - 2)$	17. $8(x + 7)$

Simplify the expression.

18. $2(11 + d - 3)$	19. $10(w + 2) - 7$
20. $7n + n + 10 - 2n + 8$	21. $5(k + 4) - 2k$

Factor the expression using the GCF

22. $4w + 20$	23. $25d - 30$	24. $12y - 8$	25. $9b + 45$

26. The expression $9a + 6s$ is the cost for *a* adults and *s* students to see a musical performance. Fine the total cost for three adults and five students.

Write the phrase as an expression. Then evaluate when $x = 3$ and $y = 15$.

27. 7 more than the quotient of a number y and 5.

28. 15 decreased by the product of a number x and 4.

Simplify the expression

29. $12 + (5 + m)$	30. $8(5w)$	31. $10 \cdot e \cdot 0$