CHAPTER 3 PRACTICE TEST

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

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| 1. $ 5h+9$ | 2. $ a^{2}$ + 7b |

Write the expression using exponents.

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| 3. $r∙r∙r∙r∙r∙r$ | 4. 4$∙$ d$ ∙d∙d$  |

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

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

Write the phrase as an expression.

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| 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.

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| 12. $ 7∙m=m ∙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.

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| 16. 4(c – 2) | 17. 8(x + 7) |

Simplify the expression.

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| 18. 2(3 + d – 1) | 19. 10(w + 2) – 7  |
| 20. 3.4n + 9.6 – 2.1n | 21. 5(k + 4) – 2k |

Factor the expression using the GCF

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| 22. 4c + 22 | 23. 54w – 30  | 24. 12y – 8  | 25. 9b + 45 |

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| 26. You earn money by washing windows at $14 per house or washing cars at $5 per car. How many cars would you have to washing to make the same amount for washing windows at 10 houses? |

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| 27. Your uncle is 2 years older than 3 times your age.1. You are x years old. Write an expression to describe your uncle’s age.
2. You are 12 years old. How old is your uncle?
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| 28. A server at a restaurant works 5 hours on a weekday and 8 hours on a weekend day1. Write an expression for the total hours the server works on x weekdays and y weekend days.
2. Use the expression to find the number of hours the server works on 4 weekdays and 2 weekend days.
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