

Name: _____ Period: _____ Date: _____

LESSON
1-6

Chapter 1 Part 2 Quiz Review Worksheet
Variables and Algebraic Expressions

Evaluate each expression for the given values of the variable.

1. $3n + 15$ for $n = 4$

2. $h \div 12$ for $h = 60$

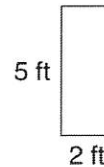
3. $32x - 32$ for $x = 2$

4. $\frac{c}{2}$ for $c = 24$

5. $(n \div 2)5$ for $n = 14$

6. $8p + 148$ for $p = 15$

7. You can find the area of a rectangle with the expression lw where l represents the length and w represents the width. What is the area of the rectangle at right in square feet?



LESSON
1-7

Translating Words Into Math

Write each phrase as an algebraic expression.

8. 140 decreased by a number

9. 35 more than z

10. the product of a number and 14

11. the quotient of 20 and w

12. twice a number, plus 34

13. 15 less than 3 times x

14. The Nile River is the longest river in the world at 4,160 miles. A group of explorers traveled along the entire Nile in x days. They traveled the same distance each day. Write an algebraic expression to find each day's distance.

Name: _____ Period: _____ Date: _____

LESSON

1-8

Simplifying Algebraic Expressions

Identify like terms in each list.

15. $8g$ $6m^2$ n^2 $2n$ 2 $4g$ $5n^2$

16. $5x$ $7y^4$ $9x$ s^2 16 $5y^4$ 25

Simplify.

17. $5p + 22q^2 + 6p$

18. $4x^2 + 3x^2 + 18$

19. $8n^3 + 3n + 7n + 9n^3$

20. $9a + 4b + 2 + 2a + 5b + 4$

21. $2m^2 + 14n^2 + 2m^2 + 5n + 3$

22. $2h^2 + 3g + 8h^2 + 7 + 3 + 4g$

LESSON

1-9

Equations and Their Solutions

Determine whether the given value of the variable is a solution.

23. $a = 4$ for $12 - a = 6$

24. $m = 37$ for $23 + m = 60$

25. $x = 6$ for $54 = 9x$

26. $g = 96$ for $\frac{g}{4} = 32$

27. $n = 28$ for $n + 44 = 72$

28. $j = 6$ for $84 \div j = 12$

29. $k = 24$ for $3k = 6$

30. $m = 3$ for $42 = m + 39$

31. $y = 8$ for $8y + 6 = 70$

32. Jason and Maya have their own web sites on the Internet. As of last week, Jason's web site had 2,426 visitors. This is twice as many visitors as Maya had. Did Maya have 1,213 visitors or 4,852 visitors to her web site? _____