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Chapter 1

A3

Glencoe Algebra 1

1-1 Skills Practice
Variables and Expressions

Write an algebraic expression for each verbal expression.

1. the sum of a number and 10 $x + 10$	2. 13 less than k $k - 13$
3. the product of 13 and q $13q$	4. 6 more than twice m $2m + 6$
5. 8 increased by three times a number $8 + 3x$	6. the difference of 17 and 3 times a number $17 - 3x$
7. the product of 2 and the second power of y $2y^2$	8. 9 less than y to the fourth power $y^4 - 9$

Evaluate each expression.

9. 3^2 9	10. 2^3 8
11. 10^2 100	12. 10^3 1000
13. 10^4 10,000	14. 10^5 100,000
15. 10^6 1,000,000	16. 10^7 10,000,000

Write a verbal expression for each algebraic expression. 19–25. Sample answers are given.

19. $5a$ the product of 5 and a	20. 5^2 5 squared
21. $c + 2d$ the sum of c and twice d	22. $4 - 5h$ the difference of 4 and 5 times h
23. $2b^2$ 2 times b squared	24. $7x^2 - 1$ 1 less than 7 times x cubed
25. $p^4 + 4q$ p to the fourth power plus 4 times q	26. $3n^2 - x$ 3 times n squared minus x

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1-1 Practice
Variables and Expressions

Write an algebraic expression for each verbal expression.

1. the difference of 10 and a $10 - a$	2. the sum of 18 and a number $18 + x$
3. the product of 11 and j $11j$	4. 74 increased by 3 times y $74 + 3y$
5. 13 decreased by twice a number $13 - 2x$	6. 95 more than the square of a number $x^2 + 95$
7. three-fourths the square of 8 $\frac{3}{4}8^2$	8. two-fifths the cube of a number $\frac{2}{5}x^3$

Evaluate each expression.

9. 10^2 100	10. 10^3 1000	11. 10^4 10,000
12. 10^5 100,000	13. 10^6 1,000,000	14. 10^7 10,000,000
15. 10^8 100,000,000	16. 10^9 1,000,000,000	17. 10^{10} 10,000,000,000

Write a verbal expression for each algebraic expression. 18–25. Sample answers are given.

18. $23f$ the product of 23 and f	19. 7^3 seven cubed
20. $5m^2 + 2$ 2 more than 5 times m squared	21. $4d^3 - 10$ 4 times d cubed minus 10
22. $x^4 - y^3$ times x to the fourth power minus times y cubed	23. $b^2 - 3c$ b squared minus 3 times c cubed
24. $\frac{1}{6}k^5$ one sixth of the fifth power of k	25. $\frac{1}{7}n^4$ one seventh of 4 times n squared

26. BOOKS A used bookstore sells paperback fiction books in excellent condition for \$2.50 and in fair condition for \$0.50. Write an expression for the cost of buying x excellent-condition paperbacks and y fair-condition paperbacks. $2.50x + 0.50y$

27. GEOMETRY The surface area of the side of a right cylinder can be found by multiplying twice the number r by the radius times the height. If a circular cylinder has radius r and height h , write an expression that represents the surface area of its side. $2\pi rh$

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Answers (Lesson 1-1)

Answers

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