



GUIDED PRACTICE

1. **Vocabulary** A(n) _____? _____ is a value that can change. (*algebraic expression, constant, or variable*)

SEE EXAMPLE 1

- Give two ways to write each algebraic expression in words.

2. $n - 5$ 3. $\frac{f}{3}$ 4. $c + 15$ 5. $9 - y$
6. $\frac{x}{12}$ 7. $t + 12$ 8. $8x$ 9. $x - 3$

SEE EXAMPLE 2

10. George drives at 45 mi/h. Write an expression for the number of miles George travels in h hours.
11. The length of a rectangle is 4 units greater than its width w . Write an expression for the length of the rectangle.

SEE EXAMPLE 3

- Evaluate each expression for $a = 3$, $b = 4$, and $c = 2$.

12. $a - c$ 13. ab 14. $b \div c$ 15. ac

SEE EXAMPLE 4

16. Brianna practices the piano 30 minutes each day.
a. Write an expression for the number of hours she practices in d days.
b. Find the number of hours Brianna practices in 2, 4, and 10 days.

PRACTICE AND PROBLEM SOLVING

Independent Practice

For Exercises	See Example
17–24	1
25–26	2
27–30	3
31	4

- Give two ways to write each algebraic expression in words.

17. $5p$ 18. $4 - y$ 19. $3 + x$ 20. $3y$
21. $-3s$ 22. $r \div 5$ 23. $14 - t$ 24. $x + 0.5$

25. Friday's temperature was 20° warmer than Monday's temperature t . Write an expression for Friday's temperature.

26. Ann sleeps 8 hours per night. Write an expression for the number of hours Ann sleeps in n nights.

- Evaluate each expression for $r = 6$, $s = 5$, and $t = 3$.

27. $r - s$ 28. $s + t$ 29. $r \div t$ 30. sr

31. Jim is paid for overtime when he works more than 40 hours per week.

- a. Write an expression for the number of hours he works overtime when he works h hours.
b. Find the number of hours Jim works overtime when he works 40, 44, 48, and 52 hours.

- H.O.T.** 32. **Write About It** Write a paragraph that explains to another student how to evaluate an expression.

Write an algebraic expression for each verbal expression. Then write a real-world situation that could be modeled by the expression.

33. the product of 2 and x 34. b less than 17 35. 10 more than y

