

Practice: Skills**Writing Expressions and Equations**

Write each phrase as an algebraic expression.

1. b plus 1
2. three more than x
3. twelve minus y
4. seven less than n
5. five years younger than Jessica
6. a number less eleven
7. four increased by a
8. eight dollars more than m
9. the product of c and 10
10. twice as many days
11. three times as many soft drinks
12. t multiplied by 14
13. Emily's age divided by 3
14. 24 divided by some number
15. a number divided by 2
16. the quotient of -15 and w

Write each sentence as an algebraic equation. (Extra credit for solving)

17. A number plus three is 9.
18. The sum of x and 2 is 10.
19. Four cents more than the price is 93¢.
20. Fifteen minus y is 7.
21. A number decreased by 5 is 12.
22. Five dollars less than Yumi's pay is \$124.
23. A number times four is 20.
24. Twice the number of cars is 40.
25. The product of z and 6 is 54.
26. A number divided by 6 is 12.
27. 72 divided by y is -9 .
28. 175 students separated into n classes is 25.
29. One more than twice as many CDs is 17.
30. Four less than three times a number is 14.

Study Guide and Intervention

Writing Expressions and Equations

The table below shows phrases written as mathematical expressions.

Phrases	Expression	Phrases	Expression
9 more than a number the sum of 9 and a number a number plus 9 a number increased by 9 the total of x and 9	$x + 9$	4 subtracted from a number a number minus 4 4 less than a number a number decreased by 4 the difference of h and 4	$h - 4$
Phrases	Expression	Phrases	Expression
6 multiplied by g 6 times a number the product of g and 6	$6g$	a number divided by 5 the quotient of t and 5 divide a number by 5	$\frac{t}{5}$

The table below shows sentences written as an equation.

Sentences	Equation
Sixty less than three times the amount is \$59. Three times the amount less 60 is equal to 59. 59 is equal to 60 subtracted from three times a number. A number times three minus 60 equals 59.	$3n - 60 = 59$

EXERCISES

Write each phrase as an algebraic expression.

- 7 less than m
- the quotient of 3 and y
- the total of 5 and c
- the difference of 6 and r
- n divided by 2
- the product of k and 9

Write each sentence as an algebraic equation.

- A number increased by 7 is 11.
- The price decreased by \$4 is \$29.
- Twice as many points as Bob would be 18 points.
- After dividing the money 5 ways, each person got \$67.
- Three more than 8 times as many trees is 75 trees.
- Seven less than a number is 15.

Extra credit for
solving for the number