

SKILL

Skills Readiness**58****Connect Words and Algebra**

To connect words and algebra, you must understand the operations involved and how to represent them. Key words are helpful in determining the operations.

Key Words	Operation or Representation
a number; an unknown quantity	any variable, such as x or n
Twice, three times, etc.	multiplication ($2n$, $3n$, etc.)
sum; more than; increased by	addition (+)
difference; less than; decreased by	subtraction (−)
each; per	multiplication
is; equals	=

Example: Jared must cut 6 lawns over the weekend. Each of the lawns takes 2 hours to cut. Write an equation representing the total time t to cut all 6 lawns.

Answer: Since each lawn takes 2 hours, multiply 2 times the number of lawns to get the total time: $t = 6(2)$.

Practice on Your Own

- Write an expression that represents the quantity 5 more than a number. _____
- Write a phrase that could be modeled by the expression $x - 15$. _____
- John bought 3 CDs and 2 DVDs. Each CD costs \$9.95, and each DVD costs \$14.98. Write an equation representing the total cost C . _____
- A triangle has sides of length 7, 10, and s . Write an equation representing the perimeter P of the triangle. _____
- The value of a painting begins at \$12,000 and increases by \$500 per year. Write an equation representing the value V of the painting at the end of any given year y . _____
- David has 56 baseball cards of which he sells 3 cards per week. Write an equation representing the number of cards n he has left at the end of any given week w . _____

Check

- Write an expression that represents a number decreased by 6. _____
- Tina bought 6 plates and 2 glasses. Each plate costs \$6.99, and each glass costs \$22.98. Write an equation representing the total cost C . _____
- Joseph opens a checking account with \$400. Each month he adds \$150 to the account. Write an equation representing the total amount A in the account at the end of any given month m . _____