

Lesson 6-5

Reinforce Understanding

Write and Evaluate Algebraic Expressions

I can write an algebraic expression for a real situation and evaluate it for a given value of the variable.

Worked model

A club buys a \$14 shirt for each member and pays one \$35 setup fee. Write an expression for the total cost.

1. Name the unknown. Let m = the number of members.
2. Write the part that changes. \$14 for each member $\rightarrow 14m$
3. Write the part that stays the same. one-time fee $\rightarrow 35$
4. Join them with the operation the story needs. $14m + 35$

Answer: The expression is $14m + 35$, where m stands for the number of members.

Practice

Complete each exercise. Show the reasoning that supports your answer.

1. Which expression represents 'the product of 6 and a number n '?

Circle the letter of the best answer. Show how you know.

- A. $6n$
- B. $6 + n$
- C. $n - 6$
- D. $n \div 6$

Show your work

2. Which expression represents '9 less than a number y '?

Circle the letter of the best answer. Show how you know.

- A. $y - 9$
- B. $9 - y$
- C. $y + 9$
- D. $9y$

Show your work

3. Which expression represents 'the sum of a number m and 15'?

Circle the letter of the best answer. Show how you know.

- A. $m + 15$
- B. $m - 15$
- C. $15m$
- D. $m \div 15$

Show your work
