

Lesson 9-3 • Group 1

Reinforce Understanding

9.3 Small Group • Group 1

With my small group, I can write an equation from a table or a graph to model the relationship between the dependent and independent variables — one step at a time, with support.

Worked model

A table shows x : 1, 2, 3, 4 hours worked and y : 18, 36, 54, 72 dollars earned. Write an equation.

1. Define the variables: x = hours worked, y = total dollars earned.
2. Check each row for one rate: $18 \div 1$, $36 \div 2$, and $54 \div 3$ all give 18.
3. The constant rate is 18 dollars per hour, so y is 18 times x .
4. Write it: $y = 18x$. Test the last row: $18 \times 4 \rightarrow 72$, which matches.

Answer: $y = 18x$, where x is hours worked and y is total dollars earned.

Practice

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

1. In the equation $c = 24.95m$ for the gym membership, what does m represent?

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

- A. The number of months of membership
- B. The total cost in dollars
- C. The monthly fee of \$24.95
- D. The name of the gym

Show your work

2. Sort each equation by what it really says.

Write the name of the correct group on each line.

Groups: Says 'y is 4 times x' Says something different

- _____ $y = 4x$
- _____ $y = x \times 4$
- _____ $x = y \div 4$
- _____ $y = x + 4$
- _____ $x = 4y$
- _____ $y = 4 \div x$