

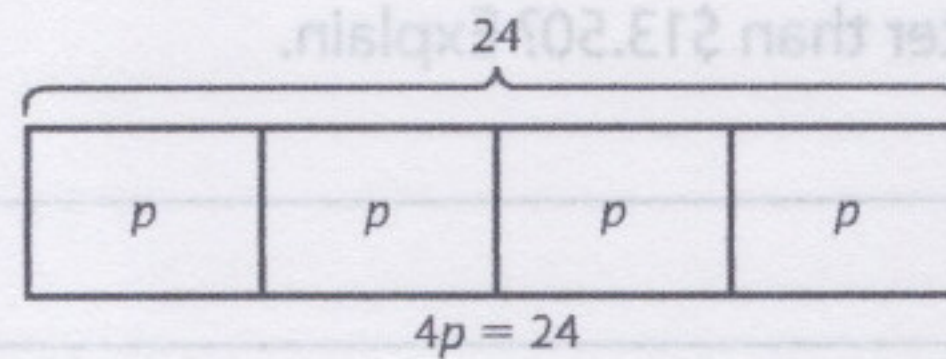
Writing and Solving Equations

Study the example problem showing how to write and solve equations. Then solve problems 1–9.

Example

Larry mows 4 lawns and earns \$24. He is paid the same amount of money for each lawn. Write and solve an equation to find how much Larry is paid to mow one lawn.

You can draw a bar model to help you write and solve an equation that represents the problem. The equation $4p = 24$ represents the problem.



The equation is asking: What number could you multiply by 4 to get 24?

$$4 \times 6 = 24$$

Larry is paid \$6 to mow one lawn.

- 1 What does p represent in the example?

- 2 What does the expression $4p$ represent?

- 3 What is the solution to the equation $4p = 24$?

$$p = \underline{\hspace{2cm}}$$

- 4 Bev went to the grocery store with \$45. She spent d dollars and came home with \$21. Write and solve an equation to find how much Bev spent at the store.

Show your work.

Solution: _____

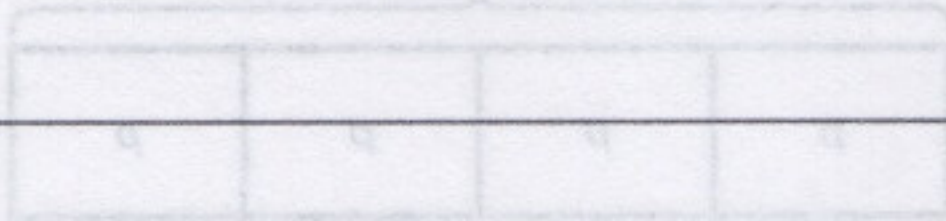


Solve.**Use this situation for problems 5–9.**

Yaro buys a baseball cap for \$9.50. He also buys a new baseball. Yaro spends \$13.50 altogether.

- 5 Write an equation to represent how much Yaro pays for the baseball.

- 6 Do you expect the solution to your equation to be less than or greater than \$13.50? Explain.



- 7 What is the solution to the equation you wrote in problem 5? Draw a number line. What increments did you use to label your number line? How can you use it to help you find the solution?

- 8 How much does Yaro pay for the baseball? _____

- 9 Write an equation using a different operation to represent how much Yaro pays for the baseball. Explain why you can use equations with different operations to represent the same problem.
