Solving Linear Equations in Word Problems

Today's Standard

7.EE.B4a - Solve word problems leading to equations of the form $px + q = r$ and $p(x + q) = r$, where p, q, and r are specific rational numbers. Solve equations of these forms fluently. Compare an algebraic solution to an arithmetic solution, identifying the sequence of the operations used in each approach. For example, the perimeter of a rectangle is 54 cm. Its length is 6 cm. What is its width?

Real-World Applications for this Standard

Calculating the cost of items with discounts and taxes; Determining the dimensions of a room given its area; Figuring out the time it will take to travel a certain distance at a given speed

Today I Learned

Today, we learned how to solve math problems that use equations like $px + q = r$. We practiced finding the missing number in problems.

Common Stumbling Blocks

Sometimes, kids mix up the steps needed to find the answer. They also might forget how to use the distributive property correctly.

Quiz Me

- What is a variable?

- How do you solve $px + q = r$?

- What does the distributive property mean?

- Can you give an example of a word problem?

- What do you do first when solving an equation?

Help Me

We use these equations to solve real-life problems, like finding out how much money we need to buy things after a discount or figuring out the size of something when we know the total size.