Place Value and Division

Today's Standard

4.NBT.A1 - Recognize that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right. For example, recognize that 700 ÷ 70 = 10 by applying concepts of place value and division.

Real-World Applications for this Standard

Calculating change in money transactions; Understanding distances in maps; Reading large numbers in books or articles; Comparing populations of different cities; Interpreting data in graphs and charts

Today I Learned

Today, we learned about place value in big numbers. In a big number, each digit is worth ten times more than the digit to its right. For example, in the number 700, the 7 means seven hundred.

Common Stumbling Blocks

Some kids might think that a digit's value doesn't change with its position. Others might confuse the digit itself with its value. For example, thinking that the 7 in 700 is just seven, not seven hundred.

Quiz Me

- What does the digit 7 in 700 mean?
- How much is the digit 5 worth in the number 50?
- What happens to a digit's value when it moves one place to the left?
- Can you give an example of a number where a digit is ten times more than the digit to its right?
- What does the digit 3 in 300 mean?

Help Me

When we look at big numbers, each digit has a special value based on where it is. For example, in the number 700, the 7 means seven hundred. We use this idea to help us understand things like money, distances, and data in graphs.