Decimals in Expanded Form

Today's Standard

5.NBT.A3a - Read and write decimals to thousandths using base-ten numerals, number names, and expanded form, e.g., 347.392 = 3 × 100 + 4 × 10 + 7 × 1 + 3 × (1/10) + 9 × (1/100) + 2 × (1/1000).

Real-World Applications for this Standard

Calculating money in dollars and cents; Measuring lengths in meters and centimeters; Reading and writing temperatures; Understanding place values in scientific data

Today I Learned

Today, we learned how to read and write decimals up to the thousandths place. We practiced using base-ten numerals, number names, and expanded form.

Common Stumbling Blocks

Some common mistakes include thinking that the place value of digits in decimals is the same as in whole numbers, and placing the decimal point incorrectly. These can change the number's value.

Quiz Me

- What is a decimal?
- How do you write 0.5 in words?
- What comes after the tenths place?
- How do you write 0.75 in expanded form?
- What happens if you move the decimal point in a number?

Help Me

Decimals are used to show parts of a whole, like money or measurements. For example, $1.25 means one dollar and twenty-five cents. Understanding decimals helps us work with numbers in real life.