Converting Rational Numbers

Today's Standard

7.NS.A2d - Convert a rational number to a decimal using long division; know that the decimal form of a rational number terminates in 0s or eventually repeats.

Real-World Applications for this Standard

Calculating discounts and sales tax; Measuring ingredients in recipes; Understanding repeating patterns in music and art; Converting currency in travel; Analyzing sports statistics

Today I Learned

Today, we learned how to change fractions to decimals using long division. We also learned that some decimals stop, and some keep repeating.

Common Stumbling Blocks

Some kids might think all decimals stop, but that's not true. Also, some might think repeating decimals can't be fractions, but they can!

Quiz Me

- What is a fraction?

- What is a decimal?

- Can all decimals stop?

- What is a repeating decimal?

- Can repeating decimals be fractions?

Help Me

We use fractions and decimals in real life, like when we measure ingredients for a recipe or calculate how much money we need for shopping. Some fractions turn into decimals that stop, and some keep going in a pattern.