Dividing Integers and Rational Numbers

Today's Standard

7.NS.A2b - Understand that integers can be divided, provided that the divisor is not zero, and every quotient of integers (with non-zero divisor) is a rational number. If p and q are integers, then -(p/q) = (-p)/q = p/(-q). Interpret quotients of rational numbers by describing real-world contexts.

Real-World Applications for this Standard

Splitting a bill among friends; Dividing a pizza into slices; Sharing a collection of items equally; Calculating speed as distance divided by time; Converting currencies

Today I Learned

Today, we learned how to divide whole numbers and that the result can be a fraction or a decimal. We also learned how to work with negative numbers in division.

Common Stumbling Blocks

Sometimes, kids think you can't divide by a negative number or that dividing two whole numbers always gives another whole number. But that's not true, and we can use examples to show why.

Quiz Me

- What happens when you divide two whole numbers?
- Can you divide by a negative number?
- Is the result of dividing two whole numbers always another whole number?
- What is a rational number?
- Can you give an example of dividing in real life?

Help Me

When you divide things in real life, like sharing pizza slices, you use the same rules we learn in math. Even if the numbers are negative or the result is a fraction, these rules help us understand and solve problems.