Multiplying Rational Numbers

Today's Standard

7.NS.A2a - Understand that multiplication is extended from fractions to rational numbers by requiring that operations continue to satisfy the properties of operations, particularly the distributive property, leading to products such as (-1)(-1) = 1 and the rules for multiplying signed numbers. Interpret products of rational numbers by describing real-world contexts.

Real-World Applications for this Standard

Calculating profit and loss in business scenarios; Determining temperature changes; Balancing chemical equations; Analyzing financial transactions; Understanding sports statistics

Today I Learned

Today, we learned how to multiply rational numbers, including negatives. This helps us understand real-world problems like changes in temperature or money.

Common Stumbling Blocks

Some kids think multiplying two negatives gives a negative answer. Others don't see how this math works in real life. We use examples like money and temperature to help.

Quiz Me

- What happens when you multiply two negative numbers?

- Give an example of a real-world problem where you multiply rational numbers.

- What is the distributive property?

- Can you multiply fractions and get a rational number?

- Why is it important to learn about multiplying rational numbers?

Help Me

Multiplying rational numbers helps us solve real-world problems. For example, if you lose money (a negative number) twice, you actually end up with a positive amount. This math helps us understand things like money and temperature changes.