



Dividing Unit Fractions by Whole Numbers

Today's Standard

5.NF.B7a - Interpret division of a unit fraction by a non-zero whole number, and compute such quotients. For example, create a story context for $(1/3) \div 4$, and use a visual fraction model to show the quotient. Use the relationship between multiplication and division to explain that $(1/3) \div 4 = 1/12$ because $(1/12) \times 4 = 1/3$.

Real-World Applications for this Standard

Sharing a piece of cake equally among friends; Dividing a length of ribbon into smaller equal parts; Splitting a cup of sugar into smaller measurements for recipes

Today I Learned

Today, I learned how to divide a unit fraction by a whole number. For example, if I have $1/3$ of a pizza and I want to share it with 4 friends, I can use division to find out how much each friend gets.

Common Stumbling Blocks

Some kids might think that dividing by a whole number makes the fraction bigger. Others might mix up the top and bottom numbers of the fraction. We'll use pictures and examples to help understand these ideas.

Quiz Me

- What is a unit fraction?
- What happens when you divide a fraction by a whole number?
- Can you show me how to divide $1/3$ by 4 using a picture?
- Why do we use multiplication to check our division?
- What is the answer to $(1/3) \div 4$?

Help Me

Dividing a fraction by a whole number is like sharing something equally. For example, if you have $1/3$ of a pizza and you want to share it with 4 friends, each friend gets a smaller piece. We can use pictures to see this and multiplication to make sure our answer is correct.