Equivalent Fractions and Addition

Today's Standard

4.NF.C5 - Express a fraction with denominator 10 as an equivalent fraction with denominator 100, and use this technique to add two fractions with respective denominators 10 and 100. For example, express 3/10 as 30/100, and add 3/10 + 4/100 = 34/100.

Real-World Applications for this Standard

Comparing lengths of objects using fractional measurements.; Calculating portions in recipes.; Understanding money (e.g., dimes and pennies).; Measuring liquids in different units.

Today I Learned

Today we learned about equivalent fractions and how to add fractions with different denominators. For example, we can change 3/10 to 30/100 and then add it to 4/100 to get 34/100.

Common Stumbling Blocks

Sometimes kids think they can't add fractions with different denominators, but they can if they change one fraction to have the same denominator as the other. Another common mistake is thinking they need to change both the top and bottom numbers the same way, but they only need to change the bottom number.

Quiz Me

- What is an equivalent fraction?
- How do you change 3/10 to a fraction with 100 on the bottom?
- Can you add 3/10 and 4/100? How?
- Why do we change the bottom number of a fraction?
- What is 30/100 + 4/100?

Help Me

When we talk about fractions, sometimes we need to change them so they have the same bottom number to add them. For example, if you have 3/10 and you want to add it to 4/100, you can change 3/10 to 30/100 and then add them to get 34/100. This helps us understand things like money, where 10 dimes are the same as 100 pennies.