



Multiplying Fractions by Whole Numbers

Today's Standard

4.NF.B4 - Apply and extend previous understandings of multiplication to multiply a fraction by a whole number.

Real-World Applications for this Standard

Doubling a recipe that uses fractional measurements; Dividing a pizza into fractional parts and distributing them; Calculating the total distance run if each lap is a fraction of a mile; Sharing a bag of candies equally among friends; Finding the total weight of items when each item weighs a fraction of a kilogram

Today I Learned

Today, we learned how to multiply fractions by whole numbers. For example, if you have $\frac{1}{2}$ of a pizza and you multiply it by 3, you get $\frac{3}{2}$ or 1 and $\frac{1}{2}$ pizzas. This helps us understand how to work with parts of things in real life.

Common Stumbling Blocks

Sometimes kids think that when you multiply a fraction by a whole number, the result gets smaller. This is not true; it actually gets bigger. Another mistake is multiplying both parts of the fraction by the whole number, but only the top part should be multiplied.

Quiz Me

- What happens when you multiply $\frac{1}{2}$ by 2?
- How do you multiply 3 by $\frac{1}{4}$?
- What is 2 times $\frac{1}{3}$?
- If you have 4 times $\frac{1}{5}$, what do you get?
- What is 5 times $\frac{1}{6}$?

Help Me

When you multiply a fraction by a whole number, you are increasing the fraction by that many times. For example, if a recipe calls for $\frac{1}{2}$ cup of sugar and you want to make it twice, you need 2 times $\frac{1}{2}$, which is 1 cup of sugar. This helps in cooking, sharing, and many other real-world activities.

