



Dividing Fractions in Word Problems

Today's Standard

6.NS.A1 - Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem. For example, create a story context for $(2/3) \div (3/4)$ and use a visual fraction model to show the quotient; use the relationship between multiplication and division to explain that $(2/3) \div (3/4) = 8/9$ because $3/4$ of $8/9$ is $2/3$. (In general, $(a/b) \div (c/d) = ad/bc$.) How much chocolate will each person get if 3 people share $1/2$ lb of chocolate equally? How many $3/4$ -cup servings are in $2/3$ of a cup of yogurt? How wide is a rectangular strip of land with length $3/4$ mi and area $1/2$ square mi?

Real-World Applications for this Standard

Sharing chocolate equally among friends; Determining servings of yogurt; Calculating dimensions of land

Today I Learned

Today, I learned how to divide fractions and solve word problems involving fractions. We used pictures and stories to understand how to divide one fraction by another.

Common Stumbling Blocks

Sometimes, kids think that dividing by a fraction makes the number smaller, but it actually makes it bigger. Another mistake is mixing up the rules for multiplying and dividing fractions.

Quiz Me

- What is $1/2$ divided by $1/4$?
- How do you use a picture to show fraction division?
- Why is dividing by $1/3$ the same as multiplying by 3?
- How can you make a story problem for $2/3$ divided by $1/4$?
- What happens when you divide by a fraction?

Help Me

When you divide by a fraction, you are finding out how many times that fraction fits into the other number. For example, if you have $1/2$ of a chocolate bar and you want to share it equally among 3 friends, you can use

division to find out how much each friend gets.