Understanding Unit Rates with Fractions

Today's Standard

7.RP.A1 - Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or different units. For example, if a person walks 1/2 mile in each 1/4 hour, compute the unit rate as the complex fraction 1/2/1/4 miles per hour, equivalently 2 miles per hour.

Real-World Applications for this Standard

Comparing speeds of different vehicles; Calculating the cost per unit of items in a grocery store; Determining the fuel efficiency of cars; Measuring the rate of growth in plants over time; Analyzing data in science experiments

Today I Learned

Today, I learned how to find unit rates using fractions. For example, if I walk 1/2 mile in 1/4 hour, I can figure out how fast I'm walking.

Common Stumbling Blocks

Sometimes, kids mix up the top and bottom numbers in fractions, which can give the wrong answer. They might also think unit rates only work with whole numbers.

Quiz Me

- What is a unit rate?
- How do you find a unit rate with fractions?
- Can unit rates be fractions?
- What is a numerator?
- What is a denominator?

Help Me

A unit rate helps us compare things like speed or cost. For example, if you walk 1/2 mile in 1/4 hour, you are walking 2 miles per hour. This helps us understand how fast or slow something is.