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.

Cues	Notes
Unit rate	Unit rate: A comparison of two different quantities when they are combined to one unit.
Ratio	Ratio: A relationship between two numbers showing how many times the first number contains the second.
Numerator	Numerator: The top number in a fraction that shows how many parts we have.
Denominator	Denominator: The bottom number in a fraction that shows how many equal parts the item is divided into.
Fraction	Fraction: A numerical quantity that is not a whole number.
Proportional relationship	Proportional relationship: A relationship between two quantities where the ratio is constant.

Summary

Unit rates involve comparing quantities with different units and are essential in understanding proportional relationships. This standard helps students compute unit rates using fractions, which is crucial for advanced mathematical concepts.