Comparing Functions Representations

Today's Standard

8.F.A2 - Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). For example, given a linear function represented by a table of values and a linear function represented by an algebraic expression, determine which function has the greater rate of change.

Real-World Applications for this Standard

Comparing the growth rates of two different savings accounts using their interest formulas and balance tables.; Analyzing the speed of two different runners using their distance-time graphs and verbal race descriptions.; Evaluating the efficiency of two different machines using numerical data tables and algebraic efficiency formulas.

Today I Learned

Today, we learned how to compare two functions that are shown in different ways, like in graphs, tables, or equations. This helps us see which one changes faster or slower.

Common Stumbling Blocks

Sometimes, kids think that a steeper line on a graph always means it's changing faster, but that's not always true. Another mistake is thinking that if functions look different, they can't be the same, but they can!

Quiz Me

- What is a function?
- Can a function be shown in a table?
- What does a graph show us about a function?
- Can the same function look different in different forms?
- What do we compare in two functions?

Help Me

When we compare two functions, we can look at how they change over time. For example, if we have two savings accounts, one might grow faster than the other. We can see this by looking at their graphs or tables of

values.