Understanding Functions and Their Graphs

Today's Standard

8.F.A1 - Understand that a function is a rule that assigns to each input exactly one output. The graph of a function is the set of ordered pairs consisting of an input and the corresponding output.

Real-World Applications for this Standard

Predicting population growth over time; Calculating interest in a savings account; Determining the trajectory of a moving object; Converting temperatures between Celsius and Fahrenheit; Modeling the relationship between distance and time in travel

Today I Learned

Today, we learned about functions in math. A function is a rule that gives one output for each input. We also learned how to graph functions by making ordered pairs.

Common Stumbling Blocks

Sometimes, kids think that a function can have more than one output for one input, but that's not true. Also, they might mix up function graphs with other types of graphs. Clear examples can help fix this.

Quiz Me

- What is a function?
- How many outputs does a function have for each input?
- What do we use to graph a function?
- Can a function have two outputs for one input?
- What is an ordered pair?

Help Me

A function is like a rule that tells us what the output is for each input. For example, if you put a number into a function machine, it gives you one number out. We can use functions to predict things like how much money we'll save or how far we can travel.