Graphing and Comparing Proportional Relationships

Today's Standard

8.EE.B5 - Graph proportional relationships, interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways. For example, compare a distance-time graph to a distance-time equation to determine which of two moving objects has greater speed.

Real-World Applications for this Standard

Comparing speeds of different vehicles using distance-time graphs and equations.; Determining the better buy in shopping scenarios by comparing unit prices.; Analyzing rates in recipes to adjust ingredient quantities.; Interpreting data in scientific experiments involving rates of change.; Understanding and comparing rates of growth in business or economics contexts.

Today I Learned

Today, we learned about graphing proportional relationships. This means we looked at how two things change together at a constant rate and drew this on a graph.

Common Stumbling Blocks

Sometimes kids think the slope is the same as where the line crosses the y-axis, but it's not. Also, they might mix up proportional relationships with ones that aren't proportional.

Quiz Me

- What is a proportional relationship?
- What does the slope tell us?
- Is the slope the same as the y-intercept?
- How can you show a proportional relationship on a graph?
- What happens to the line in a proportional relationship?

Help Me

Proportional relationships show how two things change together. For example, if you walk faster, you cover more distance in the same time. We can draw this on a graph to see the pattern.