



## Solving Systems of Linear Equations

### Today's Standard

8.EE.C8a - Understand that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs, because points of intersection satisfy both equations simultaneously.

### Real-World Applications for this Standard

Determining the point where two roads intersect on a map.; Finding the break-even point in a business scenario where cost and revenue equations are given.; Calculating the point of intersection between supply and demand curves in economics.; Solving problems related to the crossing of two different paths in navigation or travel.

### Today I Learned

Today, we learned about solving systems of equations. This means finding where two lines meet on a graph. This point is special because it makes both math sentences true at the same time.

### Common Stumbling Blocks

Some kids think the answers are where the lines cross the x- or y-axis, but really, it's where the lines meet each other. Others think there's always one answer, but sometimes there are no answers or lots of answers if the lines are parallel or the same line.

### Quiz Me

- What is a system of equations?
- How do you find where two lines meet?
- What does the meeting point of two lines mean?
- Can two lines have no meeting point?
- Can two lines have lots of meeting points?

### Help Me

When you find where two lines meet on a graph, you are solving a system of equations. This is like finding where two roads cross. It's important because it helps us solve real-life problems like finding the best deal or figuring out when two friends will meet.

