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.

Cues	Notes
What is a system of linear equations?	A system of linear equations consists of two or more linear equations with the same variables.
How do you find the solution to a system of linear equations?	The solution to a system of linear equations is the point where the graphs of the equations intersect.
What does the intersection point represent?	The intersection point represents the values that satisfy both equations simultaneously.
What are common misconceptions about systems of equations?	Common misconceptions include thinking the solutions are the x- and y-intercepts or that all systems have a single unique solution.
How can graphing help understand systems of equations?	Graphing helps visualize the point of intersection and understand different types of solutions (unique, none, infinitely many).

Summary

A system of linear equations involves finding the intersection point of two lines, which represents the solution satisfying both equations. Understanding this concept helps in solving real-world problems and correcting common misconceptions.