Introduction to Algebra - Solving Linear Equations

Learning Objective
You will learn how to understand and solve simple linear equations.

Introduction
Linear equations are math sentences with numbers and letters, where the letter stands for a number we

For example, to solve x + 5 = 12, subtract 5 from both sides to find x. This gives us x = 7.

Key Concepts
- A linear equation looks like ax + b = c.
- The goal is to find the value of the letter (usually x).
- Use opposite math operations to solve the equation.
- Always do the same thing to both sides of the equation to keep it balanced.

Example Problem
Solve: 3x - 4 = 11
Step 1: Add 4 to both sides -> 3x = 15
Step 2: Divide both sides by 3 -> x = 5