

Simple (Linear) Equations

Chapter 22: Simple (Linear) Equations · Topic 1

Key Concept

An equation like $x + 5 = 12$ shows that the expression $x + 5$ equals 12, and we solve for x by finding its value.

To solve, we perform the same operation on both sides of the equation to isolate the variable, like subtracting 5 from both sides.

For $x + 5 = 12$, we subtract 5 from both sides: $x = 12 - 5 = 7$.

Solving equations is a key algebra skill, useful for finding unknown values in many mathematical and real-life problems.

Quick Revision Notes

- An equation states two expressions are equal.
- $x + 5 = 12$ is an example equation.
- We solve by performing the same operation on both sides.
- This isolates the variable.
- $x + 5 = 12$ gives $x = 7$.
- We subtract 5 from both sides to solve.
- Solving equations is a key algebra skill.
- It helps find unknowns in real problems.

Practice Questions

- 1 Solve $x + 6 = 15$.
- 2 Solve $x - 4 = 9$.
- 3 Solve $3x = 21$.
- 4 Solve $x/2 = 5$.
- 5 Explain how to solve an equation in your own words.
- 6 Create your own simple equation and solve it.