

Revision Pack: Linear Equations

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Why this pack was created

Recent practice showed strong calculation accuracy but weaker explanation of reasoning. This pack focuses on solving and explaining linear equations.

1. Concept recap

A linear equation is a balance. Whatever you do to one side, you must do to the other. Your goal is to isolate the variable while keeping the equation true.

2. Worked examples

Example: $3x + 5 = 20$

Subtract 5 from both sides: $3x = 15$

Divide by 3: $x = 5$

Explanation sentence: I used inverse operations to keep both sides balanced while isolating x.

3. Practice questions

Level	Question	Skill
Core	$2x + 7 = 19$	Inverse operations
Core	$5x - 4 = 31$	Two-step equation
Stretch	$4(x + 2) = 28$	Brackets

4. Parent answer key

- $2x + 7 = 19 \rightarrow x = 6$
- $5x - 4 = 31 \rightarrow x = 7$
- $4(x + 2) = 28 \rightarrow x = 5$

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