

Fundamental Concepts (Algebra)

Chapter 18: Fundamental Concepts (Algebra) · Topic 1

Key Concept

In algebra, letters like x , y , or n represent unknown values that we need to find or that can change (variables).

An algebraic expression, like $3x + 5$, combines numbers, variables, and operations to represent a mathematical relationship.

Understanding algebra helps us solve real-world problems where we don't know a value but can represent it with a variable.

Algebra is an important branch of mathematics, building the foundation for more advanced topics in later years.

Quick Revision Notes

- Algebra uses letters (variables) for unknowns.
- Examples: x , y , n represent unknown values.
- An algebraic expression combines numbers and variables.
- $3x + 5$ is an example of an expression.
- Algebra helps solve real-world unknowns.
- Variables can represent changing values.
- Algebra is foundational for advanced maths.
- It builds important problem-solving skills.

Practice Questions

- 1 Write an algebraic expression for 'a number plus 5'.
- 2 Identify the variable in $2y - 3$.
- 3 Discuss why we use letters in algebra.
- 4 Write an expression for 'twice a number'.
- 5 Explain what a variable represents.
- 6 Create your own simple algebraic expression.