

Operators and Expressions

Chapter 2: Operators and Expressions · Topic 1

Key Concept

Arithmetic operators, like +, -, *, /, and %, perform mathematical operations on numbers.

Relational operators, like ==, !=, <, >, compare values and return a boolean result (true or false).

Logical operators, like && (AND), || (OR), and ! (NOT), combine boolean expressions for more complex conditions.

Understanding operators and expressions is essential for performing calculations and making decisions in Java programs.

Quick Revision Notes

- Arithmetic operators: +, -, *, /, %.
- They perform mathematical operations.
- Relational operators: ==, !=, <, >.
- They compare values, returning true/false.
- Logical operators: && (AND), || (OR), ! (NOT).
- They combine boolean expressions.
- Operators and expressions compute results.
- This is essential for calculations and decisions.

Practice Questions

- 1 Write an expression using the + operator.
- 2 Write an expression using the == operator.
- 3 Combine two conditions using &&.
- 4 Discuss the difference between = and ==.
- 5 Practice using the % (modulus) operator.
- 6 Explain logical operators with an example.