AQA Computer Science GCSE
3.2.5 Boolean Operations

Flashcards

What are Boolean operations used for?

What are Boolean operations used for?

To compare Boolean values (True or False) and control the flow of programs.

What does the NOT operator do?

What does the NOT operator do?

It reverses the Boolean value.

Example: NOT True → False

What does the AND operator do?

What does the AND operator do?

Returns True only if both conditions are True.

Example: True AND True → True

What does the OR operator do?

What does the OR operator do?

Returns True if at least one condition is True.

Example: True OR False → True

What is the result of True AND False?

What is the result of True AND False?

False

What is the result of False OR False?

What is the result of False OR False?

False

What is the result of NOT False?

What is the result of NOT False?

True

Where are Boolean operators commonly used?

Where are Boolean operators commonly used?

In IF statements, WHILE loops, and other conditional expressions to control the flow of the program.

Can Boolean operators be combined?

Can Boolean operators be combined?

Yes, you can combine AND, OR, and NOT to form complex conditions.

Why is understanding Boolean logic important?

Why is understanding Boolean logic important?

It helps control the flow of decisions and repetitions in programming.