Def. Statement

Any sentence that is either TRUE or FALSE but not both.

Often, statements are represented by using a letter such as p or q.

Def. Truth Value

The determination of a statements veracity.
In other words, determining if a statement is TRUE or FALSE.

Def. Negation

A statement that has the opposite TRUTH-VALUE of a given statement.

To form the negation of a statement, you simply ADD or REMOVE the word NOT.

The symbol for NOT is ~

Def. Conjunction

A compound statement formed by joining two or more statements with the word *and*.

Symbol: $p \wedge q$ Read p and q

A conjunction is TRUE only when BOTH statements are TRUE.

Def. Disjunction

A compound statement formed by joining two or more statements with the word *or*.

Symbol: $p \vee q$ Read p or q

A disjunction is TRUE if at least one of the statements is TRUE.

Def. Truth table

A convenient method for organizing the truth values of statements.

$p \wedge \sim q$

p	q	$\sim q$	$p \wedge \sim q$

Venn Diagrams