

## Notation

A truth table allows us to look at compound statements and determine when they are true.

If  $p$  is the statement, “It is snowing” and  $q$  is the statement, “The sun is shining” then the conjunction of  $p$  and  $q$  is “It is snowing and the sun is shining.”

A conjunction joins two statements by using the word “and”.

Symbolically, we write  $p \wedge q$ . Notice the “and” symbol,  $\wedge$ , closely resembles the symbol we use for intersecting two sets,  $\cap$ .