

Truth Tables | Part D

Think of AND as switches in a series. And OR as switches in parallel. To turn on a plugged in table light you need to turn on the switch at the socket, and the switch on the light itself. Alternatively, a fire alarm in a building goes off if any of the smoke detectors detect a fire.

In conclusion, a truth table is a method of recording all of the possible input combinations to a logic gate, and determine the output for each combination. Truth tables are very useful for testing that logic circuits are producing the correct result.