A 0 & Q	В	А	Q
Во	0	0	0
2-input AND Gate	0	1	0
	1	0	0
	1	1	1
Boolean Expression Q = A.B	Read as A <b>AND</b> B gives Q		

Both A and B have to be one for Q to be 1. A\*B=Q

2-input OR Gate	В	А	Q
	0	0	0
	0	1	1
	1	0	1
	1	1	1
Boolean Expression Q = A+B	Read as A <b>OR</b> B gives Q		

When A = 1 and B = 1 they enter the interim as a 1. Once they pass through the Inversion circle the number becomes 0.

A\*B=Q

A O	В	А	Q
Во	0	0	1
2-input NOR Gate	0	1	0
	1	0	0
	1	1	0
Boolean Expression <b>Q = A+B</b>	Read as A <b>OR</b> B gives <b>NOT</b> Q		

When A=1 and B=0 enter the interim (where the shape connects to the circle) they are 0, once they pass through the inversion circle the number changes to 1.

A+B=Q