

Binary Addition Tables

To add two binary numbers, we do the same thing we did for decimal except that we use binary digits (0-1) instead of decimal digits (0-9).

+	0	1
0	0	1
1	1	10

As with decimal, this is really a Sum table and a Carry table:

Sum	0	1
0	0	1
1	1	0

Carry	0	1
0	0	0
1	0	1

These tables can also be written in "truth table" format:

A	B	Sum
0	0	0
0	1	1
1	0	1
1	1	0

A	B	Carry
0	0	0
0	1	0
1	0	0
1	1	1

This should look familiar. Which logical operations (AND, OR, XOR) can be used to calculate the binary Sum and Carry?

Sum = _____

Carry = _____