

WHAT ARE BINARY NUMBERS?

UNDERSTANDING BINARY SYSTEM

WHAT IS BINARY?

A binary number is made up of 0's and 1's.

Like our decimal system, you count, but there are no 2,3,4,5,6,7,8,9.

We call a bit the single digit.

11011 This binary number has 5 bits.

Binary numbers are not only used in mathematics, but they are the language that computers understand.

CAN WE COUNT IN BINARY? LET'S BEGIN 0, 1... THEN HOW DO WE REPRESENT 2?

0 We start at 0.

1 1 Then we go to 1.

Then we add a 1 on the left, and start back at 0.

Still with the 1 on the left, we change to 1.

Then we add a 1 on the left, and start back at 0.

and so on...

12

1100

Once we have used all the possible combinations of 0' and 1's, we add another number on the left.

