

A few facts about binary:

1) Binary is read from right to left.

2) The first digit has a value of 1, second digit has a value of 2, third has a value of 4, fourth has a value of 8.

256 128 64 32 16 8 4 2 1

3) You add the value of each digit to get the value of the binary expression

100001 = 33

32 16 8 4 2 1  
1 0 0 0 0 1