

BINARY TO DECIMAL CONVERSION CHART

Essential Reference for Computing & Mathematics

BINARY (4-BIT)

0000

0

0001

1

0010

2

0011

3

0100

4

0101

5

0110

6

0111

7

1000

8

1001

9

BINARY (4-BIT)

DECIMAL

1010

10

1011

11

1100

12

1101

13

1110

14

1111

15

BINARY (4-BIT)**DECIMAL**

10000

16

11111

31

100000

32

111111

63

Place Value Reference (Base 2)

$$2^7 = 128$$

$$2^6 = 64$$

$$2^5 = 32$$

$$2^4 = 16$$

$$2^3 = 8$$

$$2^2 = 4$$

$$2^1 = 2$$

$$2^0 = 1$$

Formula: $(d_n \times 2^n) + \dots + (d_1 \times 2^1) + (d_0 \times 2^0)$