

BINARY TO DECIMAL REFERENCE CHART

BINARY	DEC
00000000	0
00000001	1
00000010	2
00000100	4
00001000	8
00010000	16
00100000	32
01000000	64
10000000	128

BINARY	DEC
00001111	15
00011111	31
00111111	63
01111111	127
11111111	255
10101010	170
01010101	85
11000000	192

BINARY	DEC
111100000	224

POWER	VALUE
2^0	1
2^1	2
2^2	4
2^3	8
2^4	16
2^5	32
2^6	64
2^7	128
2^8	256

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

Example: $1011 = (1 \times 8) + (0 \times 4) + (1 \times 2) + (1 \times 1) = 11$