

OCTAL TO DECIMAL CONVERSION

OCTAL	DECIMAL
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
10	8
11	9

OCTAL	DECIMAL
12	10
13	11
14	12
15	13
16	14
17	15
20	16
21	17

OCTAL	DECIMAL
22	18
23	19
OCTAL	DECIMAL
24	20
30	24
40	32
50	40
60	48
70	56
100	64
120	80
144	100
175	125

Conversion Logic: Multiply each digit by 8 raised to the power of its position (starting from 0 on the right).

Example: $12_8 = (1 \cdot 8^1 + 2 \cdot 8^0) = 8 + 2 = 10_{10}$