Octal into Binary

Binary into Octal

Use Table

HexaDecimal into Binary

Binary into Hexadecimal

Use Table

Octal into Hexadecimal

Octal → Binary → Hex

Hexadecimal into Octal

Hex → Binary → Octal

Octal into Binary

Table will be used FOR

Convert $(66.4)_8 = (\quad)_2$?

$2^3 = 8$

Floating point number

	2^2	2^1	2^0
	4	2	1
0	0	0	0
1	0	0	1
2	0	1	0
3	0	1	1
4	1	0	0
5	1	0	1
6	1	1	0
7	1	1	1

6	6	.	4
↓	↓		↓
110	110		100

Answer

$(66.4)_8 = (110110.100)_2$

Octal into Binary

Binary into Octal

Use Table

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Binary into Hexadecimal

Use Table

Octal into Hexadecimal

Octal → Binary → Hex

Hexadecimal into Octal

Hex → Binary → Octal

Binary into Hexadecimal

Table will be used FOR

	2^3	2^2	2^1	2^0
	8	4	2	1
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
A 10	1	0	1	0
B 11	1	0	1	1
C 12	1	1	0	0
D 13	1	1	0	1
E 14	1	1	1	0
F 15	1	1	1	1

Convert $(111110.100)_2 = (\quad)_{16}$?

$2^4 = 16$

Floating point number

0011 . 1110 . 1000

3 . E . 8

Answer

$(111110.100)_2 = (3\ E\ .\ 8)_{16}$

$(66.4)_8 = (3\ E\ .\ 8)_{16}$

Octal into Binary

Binary into Octal

Use Table

HexaDecimal into Binary

Binary into Hexadecimal

Use Table

Octal into Hexadecimal

Octal → Binary → Hex

Hexadecimal into Octal

Hex → Binary → Octal

Hexadecimal into Binary

Table will be used FOR

Convert $(5A.B)_{16} = (\ )_2$?

$2^4 = 16$

Floating point number

	2^3	2^2	2^1	2^0
	8	4	2	1
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
A 10	1	0	1	0
B 11	1	0	1	1
C 12	1	1	0	0
D 13	1	1	0	1
E 14	1	1	1	0
F 15	1	1	1	1

5	A	.	B
↓	↓		↓
0101	1010		1011

01011010.1011

Answer

$(5A.B)_{16} = (01011010.1011)_2$

Octal into Binary

Binary into Octal

Use Table

HexaDecimal into Binary

Binary into Hexadecimal

Use Table

Octal into Hexadecimal

Octal → Binary → Hex

Hexadecimal into Octal

Hex → Binary → Octal

Binary into Octal

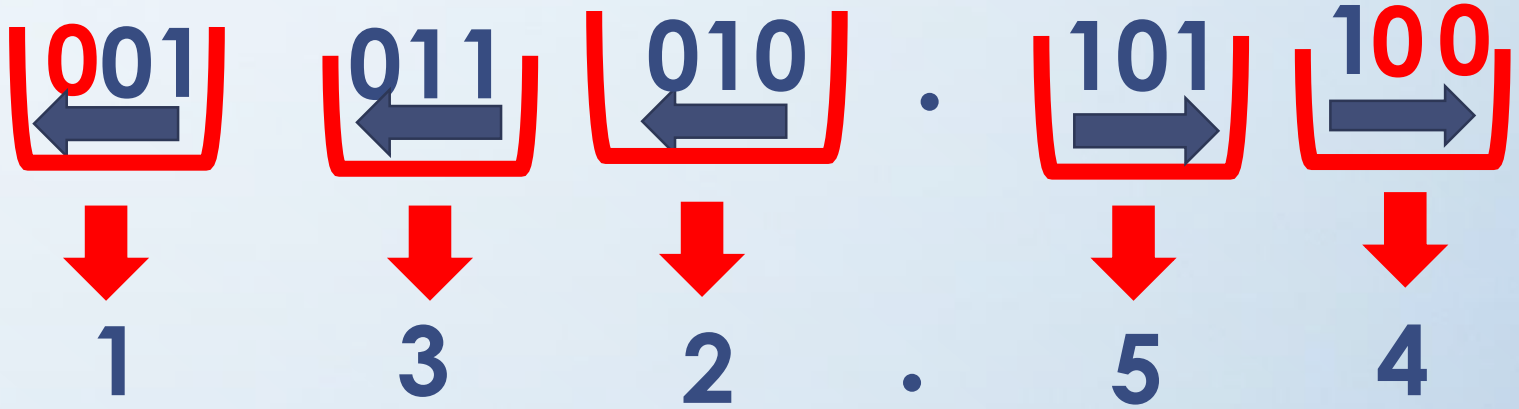
Table will be used FOR

Convert $(01011010.1011)_2 = (\quad)_8$???

$2^3 = 8$

Floating point number

	2^2	2^1	2^0
	4	2	1
0	0	0	0
1	0	0	1
2	0	1	0
3	0	1	1
4	1	0	0
5	1	0	1
6	1	1	0
7	1	1	1



Answer

$(01011010.1011)_2 = (\ 1\ 3\ 2\ .\ 5\ 4\ )_8$

$(5A.B)_{16} = (\ 1\ 3\ 2\ .\ 5\ 4\ )_8$