

Octal into Binary

Use Table

Binary into Octal

HexaDecimal into Binary

Use Table

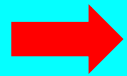
Binary into Hexadecimal

Octal into Hexadecimal

Octal



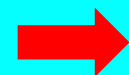
Binary



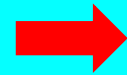
Hex

Hexadecimal into Octal

Hex



Binary



Octal

Decimal into other bases

Decimal



Binary

Decimal



Octal

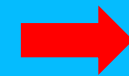
Decimal



Hexadecimal

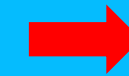
Other Bases into Decimal

Binary



Decimal

Octal



Decimal

Hexadecimal



Decimal

Binary into Decimal

Q:1) Convert $(1011)_2 = (\quad)_{10}$

Ans

Whole number

1 0 1 1

$$1 * 2^3 + 0 * 2^2 + 1 * 2^1 + 1 * 2^0$$

$$8 + 0 + 2 + 1$$

Answer

11

Q:2) Convert $(.101)_2 = (\quad)_{10}$

Fractional Number

. 1 0 1

$$1 * 2^{-1} + 0 * 2^{-2} + 1 * 2^{-3}$$

$$1/2 + 0 + 1/8$$

Answer

.625

Answer

Q:3) Convert $(1011.101)_2 = \text{Q:1 \& Q:2}$

$$(1011.101)_2 = (11.625)_{10}$$

Octal into Binary

Use Table

Binary into Octal

HexaDecimal into Binary

Use Table

Binary into Hexadecimal

Octal into Hexadecimal



Hexadecimal into Octal



Decimal into other bases

Decimal



Binary

Decimal



Octal

Decimal



Hexadecimal

Other Bases into Decimal

Binary



Decimal

Octal



Decimal

Hexadecimal



Decimal

Octal into Decimal

Q:1) Convert $(106)_8 = (\quad)_{10}$

Ans

Whole Number

1 0 6

$$1 * 8^2 + 0 * 8^1 + 6 * 8^0$$

$$64 + 0 + 6$$

Answer

70

Q:2) Convert $(.32)_8 = (\quad)_{10}$

Fractional Number

. 3 2

$$3 * 8^{-1} + 2 * 8^{-2}$$

$$3/8 + 2/64$$

Answer

.40625

Answer

Q:3) Convert $(106.32)_8 = (\quad)_{10} = \text{Q:1 \& Q:2}$

$$(106.32)_8 = (70.40625)_{10}$$

Octal into Binary

Use Table

Binary into Octal

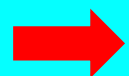
HexaDecimal into Binary

Use Table

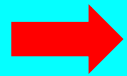
Binary into Hexadecimal

Octal into Hexadecimal

Octal



Binary



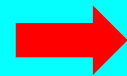
Hex

Hexadecimal into Octal

Hex



Binary



Octal

Decimal into other bases

Decimal



Binary

Decimal



Octal

Decimal



Hexadecimal

Other Bases into Decimal

Binary



Decimal

Octal



Decimal

Hexadecimal



Decimal

Conversion from Hexadecimal into Decimal

Q:1) Convert $(13A)_{16} = (\quad)_{10}$

Ans

Whole Number

$$\begin{array}{ccc} 1 & 3 & A \\ \downarrow & \downarrow & \downarrow \\ 1 * 16^2 & + & 3 * 16^1 & + & A(10) * 16^0 \end{array}$$

$$256 + 48 + 10$$

Answer

314

Q:2) Convert $(.B8)_{16} = (\quad)_{10}$

Fractional Number

$$\begin{array}{cc} . & B & 8 \\ \downarrow & & \downarrow \\ B(11) * 16^{-1} & + & 8 * 16^{-2} \end{array}$$

$$11/16 + 8/256$$

Answer

.71875

Answer

Q:3) Convert $(13A.B8)_{16} = (\quad)_{10} = \text{Combine Q:1 \& Q:2}$

$(13A.B8)_{16} = (314.71875)_{10}$

Octal into Binary

Use Table

Binary into Octal

HexaDecimal into Binary

Use Table

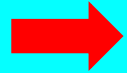
Binary into Hexadecimal

Octal into Hexadecimal

Octal



Binary



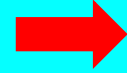
Hex

Hexadecimal into Octal

Hex



Binary



Octal

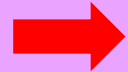
Decimal into other bases

Decimal



Binary

Decimal



Octal

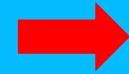
Decimal



Hexadecimal

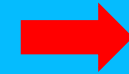
Other Bases into Decimal

Binary



Decimal

Octal



Decimal

Hexadecimal



Decimal

Thank YOU !!

