

①. TRABAJOS

Caracter

Rep. Decimal

BINARIO

y

89

1011001

e

101

1100101

i

105

1101001

m

109

1101101

y

121

1111001

y

89

1011001

u

117

1110101

l

108

1101100

i

105

1101001

z

122

1111010

q

97

1100001

o

79

1001111

s

115

1110011

o

111

1101111

r

114

1110010

i

105

1101001

o

111

1101111

o

79

1001111

l

108

1101100

o

97

1100001

y

121

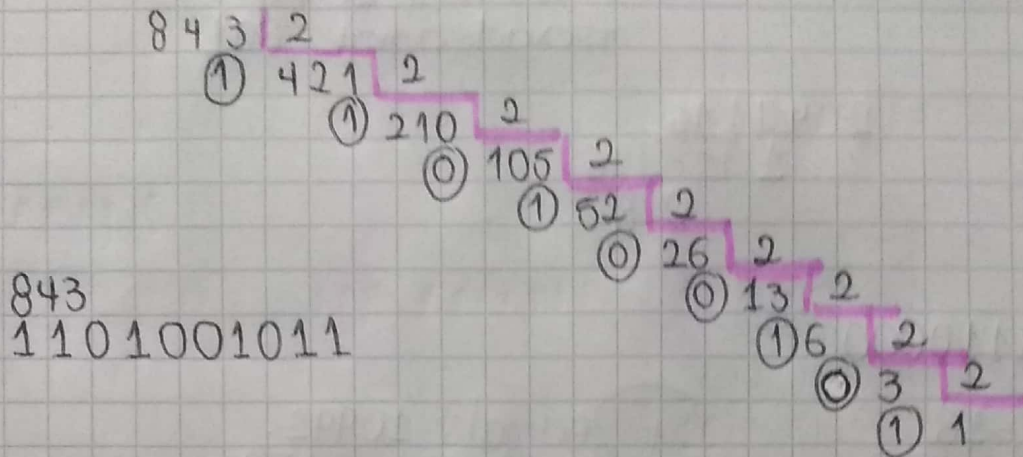
1111001

a

97

1100001

②. Binario a Decimal.



③. Decimal y Hexadecimal.

a. 11100101011110

$$2^1 = 2$$

$$2^2 = 4$$

$$2^3 = 2 \times 2 \times 2 = 8$$

$$2^4 = 2 \times 2 \times 2 \times 2 = 16$$

$$2^6 = 2 \times 2 \times 2 \times 2 \times 2 \times 2 = 64$$

$$2^8 = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 = 256$$

$$2^{10} = 2048$$

$$2^{12} = 4096$$

$$2^{13} = 8192$$

Decimal: 14686

Hexadecimal: 395E

$$\begin{array}{r} 14686 \div 16 = 917 \text{ R } 14 \\ 917 \div 16 = 57 \text{ R } 5 \\ 57 \div 16 = 3 \text{ R } 9 \end{array}$$

b. 11111111111111

$$2^0 = 1$$

$$2^5 = 2 \times 2 \times 2 \times 2 \times 2 = 32$$

$$2^7 = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 = 128$$

$$2^9 = 512$$

$$2^{10} = 1024$$

Decimal: 8191

Hexadecimal: 1FFF

$$\begin{array}{r} 8191 \div 16 = 511 \text{ R } 15 \\ 511 \div 16 = 31 \text{ R } 15 \\ 31 \div 16 = 1 \text{ R } 15 \end{array}$$

c. 1000000000001

Decimal 2049.
Hexadecimal = 801

$$2^0 = 1$$

$$2^{11} = 2048$$

$$\begin{array}{r} 2049 \overline{) 16} \\ 1 \overline{) 128} \overline{) 16} \\ 0 \quad 8 \end{array}$$

d. 10101011110000

$$2^4 = 2 \times 2 \times 2 \times 2 = 16$$

$$2^5 = 2 \times 2 \times 2 \times 2 \times 2 = 32$$

$$2^6 = 64$$

$$2^7 = 128$$

$$2^9 = 512$$

$$2^{11} = 2048$$

$$2^{13} = 8192$$

Decimal: 10992
Hexadecimal: 2AF0

$$\begin{array}{r} 10992 \overline{) 16} \\ 0 \quad 687 \overline{) 16} \\ 15 \quad 42 \overline{) 16} \\ 10 \quad 2 \end{array}$$

(24)

Decimal	Hexadecimal	Binario
0	0	0
1	1	1
2	2	10
3	3	11
4	4	100
5	5	101
6	6	110
7	7	111
8	8	1000
9	9	1001
10	A	1010
11	B	1011
12	C	1100
13	D	1101
14	E	1110
15	F	1111
16	10	10000
17	11	10001
18	12	10010
19	13	10011
20	14	10100
21	15	10101
22	16	10110
23	17	10111
24	18	11000

Decimal

Hexadecimal

Binario

25

19

11001

26

1A

11010

27

1B

11011

28

1C

11100

29

1D

11101

30

1E

11110

31

1F

11111

32

20

100000

⑤. Hexadecimal a Decimal.

19F → 415

1 9 F

1 9 15

↓ ↓ ↓

16^2 16^1 16^0

↓ ↓ ↓

$256 + 144 + 15 \rightarrow 415$