

1-

	Decimal	Binario
H	72	01001000
a	97	01100001
k	114	01110010
o	111	01101111
i	108	01101100
d	100	01100100
J	83	01010011
a	97	01100001
n	110	01101110
t	116	01110100
i	105	01101010
a	97	01100001
9	103	01100111
o	111	01101111
G	71	01000111
a	97	01100001
k	108	01101100
i	105	01101010
n	110	01101110
d	100	01100100
o	111	01101111
L	76	01001100
a	97	01100001
k	114	01110010
a	97	01100001

5- El número siguiente a 10F es 1A0

2-

$$\begin{array}{r}
 843 \div 2 = 421 \text{ R } 1 \\
 421 \div 2 = 210 \text{ R } 1 \\
 210 \div 2 = 105 \text{ R } 0 \\
 105 \div 2 = 52 \text{ R } 1 \\
 52 \div 2 = 26 \text{ R } 0 \\
 26 \div 2 = 13 \text{ R } 0 \\
 13 \div 2 = 6 \text{ R } 1 \\
 6 \div 2 = 3 \text{ R } 0 \\
 3 \div 2 = 1 \text{ R } 1 \\
 1 \div 2 = 0 \text{ R } 1
 \end{array}$$

1101001011

3-

$$\begin{array}{r}
 13 \ 12 \ 11 \ 10 \ 9 \ 8 \ 7 \ 6 \ 5 \ 4 \ 3 \ 2 \ 1 \ 0 \\
 11 \ 11 \ 10 \ 9 \ 8 \ 7 \ 6 \ 5 \ 4 \ 3 \ 2 \ 1 \ 0 \\
 a - 11 \ 100101011110
 \end{array}$$

395E  
14686

$$2^1 + 2^2 + 2^3 + 2^5 + 2^7 + 2^8 + 2^{11} + 2^{12} = 395E$$

$$2 + 4 + 8 + 32 + 128 + 768 + 4096 + 16384 = 14686$$

b- 111111111111 1FFF

$$2^0 + 2^1 + 2^2 + 2^3 + 2^4 + 2^5 + 2^6 + 2^7 + 2^8 + 2^9 + 2^{10} + 2^{11} + 2^{12} = 8189$$

c- 100000000001 801

$$2^0 + 2^{17} = 2049$$

d- 1010101110000 2AF0

$$2^4 + 2^5 + 2^6 + 2^7 + 2^9 + 2^{11} + 2^{13} = 10992$$

4-

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
25	19	11001
26	1A	11010
27	1B	11011
28	1C	11100
29	1D	11101
30	1E	11110
31	1F	11111
32	20	100000