

1) $AACB_{13} \rightarrow \text{decimal}$

$$B \rightarrow 11 \times 13^0 = 11$$

$$C \rightarrow 12 \times 13^1 = 156$$

$$A \rightarrow 10 \times 13^2 = 1690$$

$$A \rightarrow 10 \times 13^3 = 21970$$
$$\underline{23827}$$

$$\boxed{AACB_{13} = 23827_{10}}$$

2) $BF4C_{16} \rightarrow \text{decimal}$

$$C \rightarrow 12 \times 16^0 = 12$$

$$4 \times 16^1 = 64$$

$$F \rightarrow 15 \times 16^2 = 3840$$

$$B \rightarrow 11 \times 16^3 = 45056$$
$$\underline{48972}$$

$$\boxed{BF4C_{16} = 48972_{10}}$$

3) $9D8C_{14} \rightarrow \text{decimal}$

$$C \rightarrow 12 \times 14^0 = 12$$

$$8 \times 14^1 = 112$$

$$D \rightarrow 13 \times 14^2 = 2548$$

$$9 \times 14^3 = 24696$$
$$\underline{27368}$$

$$\boxed{9D8C_{14} = 27368_{10}}$$

4) $F7GA_{16} \rightarrow \text{decimal}$

$$A \rightarrow 10$$

$$\boxed{G \rightarrow 16}$$
$$7$$

$$F \rightarrow 15$$

$\boxed{G \text{ no es menor a la base}}$

5) $FFF_{16} \rightarrow \text{binario}$

$$F \rightarrow 15 \times 16^0 = 15$$

$$F \rightarrow 15 \times 16^1 = 240$$

$$F \rightarrow 15 \times 16^2 = 3840$$

$$4095$$

$$FFF_{16} = 4095_{10} = 111111111111_2$$

$$4095 / 2$$

$$\begin{array}{r} 00 \quad 2047 \quad 2 \\ 09 \quad 00 \quad 1023 \quad 2 \\ 15 \quad 04 \quad 02 \quad 511 \quad 2 \\ 1 \quad 07 \quad 03 \quad 11 \quad 255 \quad 2 \\ 1 \quad 11 \quad 05 \quad 127 \quad 2 \\ 1 \quad 15 \quad 07 \quad 63 \quad 2 \\ 1 \quad 03 \quad 31 \quad 2 \\ 1 \quad 11 \quad 15 \quad 2 \\ 1 \quad 1 \quad 7 \quad 2 \\ 1 \quad 3 \quad 2 \\ 1 \quad 1 \end{array}$$

6) $8ABC8_{13} \rightarrow \text{binario}$

$$8 \times 13^0 = 8$$

$$C \rightarrow 12 \times 13^1 = 156$$

$$B \rightarrow 11 \times 13^2 = 1859$$

$$A \rightarrow 10 \times 13^3 = 21970$$

$$8 \times 13^4 = 228488$$

$$252481$$

$$8ABC8_{13} = 252481_{10} = 111101101001000001_2$$

$$252481 / 2$$

$$126240 / 2$$

$$63120 / 2$$

$$31560 / 2$$

$$15780 / 2$$

$$7890 / 2$$

$$3945 / 2$$

$$1972 / 2$$

$$986 / 2$$

$$493 / 2$$

$$246$$

$$246 / 2$$

$$123 / 2$$

$$61 / 2$$

$$30 / 2$$

$$15 / 2$$

$$7 / 2$$

$$3 / 2$$

$$1$$

7) $5F45_{16} \rightarrow \text{binario}$

$$5 \times 16^0 = 5$$

$$4 \times 16^1 = 64$$

$$F \rightarrow 15 \times 16^2 = 3840$$

$$5 \times 16^3 = 20480$$

24389

$$5F45_{16} = 24389_{10} = 1011110100010101_2$$

	65536	32768	16384	8192	4096	2048	1024	512	256	128	64	32	16	8	4	2	1
24389	0	0	1	0	1	1	1	1	1	0	1	0	0	0	1	0	1
94885	1	0	1	1	1	0	0	1	0	1	0	1	0	0	1	0	1

8) $94F7_{16} \rightarrow \text{binario}$

$$9 \times 16^0 = 9$$

$$F \rightarrow 15 \times 16^1 = 240$$

$$4 \times 16^2 = 1296$$

$$94F7_{16} = 93312_{10}$$

94885

$$94F7_{16} = 94885_{10} = 1011100101010010101_2$$