

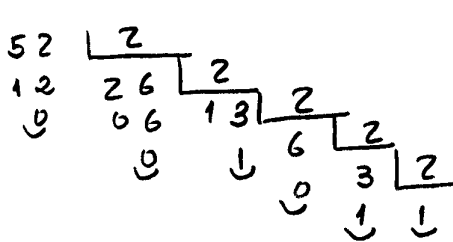
Problemas propuestos

2.1

Decimal	Binario	Octal	Hexadecimal
0	00000	0	0
1	00001	1	1
2	00010	2	2
3	00011	3	3
4	00100	4	4
5	00101	5	5
6	00110	6	6
7	00111	7	7
8	01000	10	8
9	01001	11	9
10	01010	12	A
11	01011	13	B
12	01100	14	C
13	01101	15	D
14	01110	16	E
15	01111	17	F
16	10000	20	10
17	10001	21	11
18	10010	22	12
19	10011	23	13
20	10100	24	14

2.2 $10111,01_2 = 1 \cdot 2^4 + 0 \cdot 2^3 + 1 \cdot 2^2 + 1 \cdot 2^1 + 1 \cdot 2^0 + 0 \cdot 2^{-1} + 1 \cdot 2^{-2} =$
 $= 16 + 4 + 2 + 1 + 0,25 = 23,25_{10}$

2.3 $52,375_{10}$



$0,375 \times 2 = 0,75$
 $0,75 \times 2 = 1,5$
 $0,5 \times 2 = 1,0$

$52,375_{10} = 110100,011_2$

(2-4) $101011,101_2$

$\frac{101011}{5} \frac{101}{3} \rightarrow \text{Octal} = 53,5_8$

$\frac{101011}{2} \frac{101}{8} \rightarrow \text{Hexadecimal} = 28,A_{16}$

(2-5) $654,40625_8 \rightarrow \text{Decimal}$

$$654,40625 = 6 \cdot 8^2 + 5 \cdot 8^1 + 4 \cdot 8^0 + 4 \cdot 8^{-1} + 0 \cdot 8^{-2} + 6 \cdot 8^{-3} + 2 \cdot 8^{-4} + 5 \cdot 8^{-5} = 428,512359619_{10}$$

(2-6)

$123,45_{10}$

$$\begin{array}{r} 123 \\ 43 \\ 3 \end{array} \begin{array}{l} \overline{) 8} \\ 15 \\ 7 \end{array} \begin{array}{l} 8 \\ 8 \\ 1 \end{array}$$

$0,45 \times 8 = 3,6$

$0,6 \times 8 = 4,8$

$0,8 \times 8 = 6,4$

$0,4 \times 8 = 3,2$

$0,2 \times 8 = 1,6$

$123,45_{10} = 173,34631$

(2-7)

$365,618 = \underline{11110101},1100_2 = F5,C_{16}$

(2-8)

$1B3,2_{16} = 1 \cdot 16^2 + 11 \cdot 16^1 + 3 \cdot 16^0 + 2 \cdot 16^{-1} = 435,125_{10}$

(2-9)

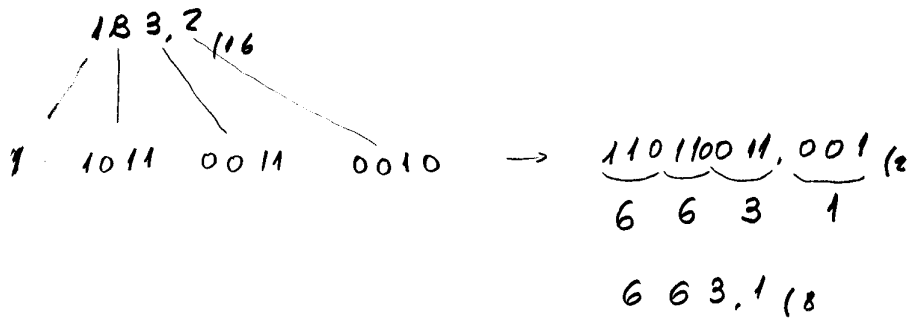
$251,625_{10}$

$$\begin{array}{r} 251 \\ 91 \\ 11 \end{array} \begin{array}{l} \overline{) 16} \\ 15 \\ 1 \end{array}$$

$0,625 \times 16 = 10$

$251,625_{10} = FB,A_{16}$

(2-10)



Problemas resueltos Gestión Repres Información

J.1

1010 1100 0100 0111 (2) a hexadecimal
A C 4 7

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Respuesta a