Decimel	octal	heredecins	Biménio
0	0	. 0 .	0000
2	2	2	10
3	3	3	1 1
4	4	4	100
5	5	5	101
6	6	6 7	110
8	10	8	1000
9	1 1	9	1001
10	1 2	A	1010
37.	1 3	B	1011
13	15	D	1100
14	16	E	1110
15	1 7	F	1111

a)
$$0000111112$$

 $2^{3}+2^{2}+2+1=15$

e)
$$7751_8 = \frac{1}{100}$$
 $8^37+8^2x^2+5x^29+1=4073_{10}$
f)

A $7A2$
 $16^3x^{10}+16^2x^2+16x^{10}+2=42814_{10}$
g)

111111112

 $7F_{16} = 15 \times 16 + 15 = 255_{10}$
20138

2x8³+0x8²+8+3=1035₁₀
i)
405 F_{16}
4x16³+15x16+15=16633₁₀
3
a) 1036₁₀
40C₁₆
20148
20148
20148
20148 = 0100000011002
b)

73548 = 1310111011002 = E E C₁₆

E E C₁₆ =

 $16^2x^{14}+16x^{14}+12=3820_{10}$

d) $111100111_{2} = 747_{8} = 1E7_{16}$ $16^{2} \times 1 + 16 \times 14 + 7 = 487_{10}$

108616 = 00011101100011002

- f) 61628 = 1500010000002 = C4216 C4216 $16^{2} \times 12 + 16 \times 4 + 2 = 313810$
- 9) $D3 \mp 9_{16} = 11010011111111001_2 = 1517718$ $D3 \mp 9_{16}$ $16^3 \times 13 + 16^2 \times 3 + 16 \times 15 + 9 = 54265_{10}$

$$\begin{array}{lll} \text{B} & \text{B} &$$

$$6 \times 8 + 6 + 6 \times 8^{-1} + 4 \times 8^{-2} + 4 \times 8^{-3} \cong 54.820_{10}$$

 $\cong 54.820_{10}$
 $= 54.820_{10}$

b)
$$L3 \times log_{8}[0] = 3$$

$$127.4448$$

$$8^{2} + 2 \times 8 + 7 + 8^{3} \times 4 + 8^{-2} \times 4 + 8^{-3} \times 4 = 87.570_{10}$$

b)
$$125_8$$
 $8^2 + 2_{\times}8 + 5 = 85_{10} = 100_{10}$ $8^2 + 4_{\times}8 + 4 = 100_{10}$ $8^2 + 4_{\times}8 + 4 = 100_{10}$

c)
$$\frac{125_{16}}{+1A7_{16}} = \frac{16^2 + 2 \times 16 + 5}{16^2 + 10 \times 16 + 7} = 233_{10} = 716_{10}$$

$$\frac{1}{2} \times 16^2 + 12 \times 16 + 12 = 716_{10}$$

b)
$$\frac{1258}{-178}$$
 $8^2 + 8 + 2 + 5 = 85_{10} = 70_{10}$ $8 + 7 = 15_{10}$ $8^2 + 6 = 70_{10}$

d)
$$00f_{0}11011_{2}=3B_{16}$$

$$\frac{1}{7}AD_{16}$$

$$\frac{-3B_{16}}{7}$$

$$16\times10+13=173_{10}=114_{10}$$

$$16\times3+11=59_{10}$$

$$16\times7+2=114_{10}$$

- a) 11111110_{c2} $-2^{8}12^{7}+2^{6}+2^{5}12^{4}12^{3}+2^{2}+2=-256+254=-210$
- 6)0
- c) 55335511c2 -2+5=-5i0
- d) 00150051c2 $2^{5}+2^{4}+2+5=55_{10}$
- 3) Todas exceto a d).
- 10)
- a) 111111002
- b) 0000011 Ocz
- c) 1111100 Ocz
- d) 0000000 Scz
- $\frac{12)}{9)} \frac{45 \frac{2}{2}}{\frac{1422}{2}} \frac{2}{\frac{1}{2}} \frac{1112}{\frac{2}{3}} \frac{2}{\frac{1}{3}} \frac{1}{\frac{2}{3}} \frac{$
 - b)-138 138=001011c2 -> 00001011c2 & Positivo 11110101c2 & Negativo

162 x 10 + 16 x 13 + 12 = 27 48 = 0010 01110100 1000 BCD

Gray

1 1000

11010

10000

10001

Bimário Gray	Bimenio
000000000000000000000000000000000000000	100001

18

- a) 0000 1000 Gray
- b) 1101010101gray
- c) 1000000 OGray

19

- 0) 000010102
- 5) 111011102
- c) 10101010₂

20

- a) 10101010 8 de distamais
- b) 11110000 5 4 de distâmaia
- c) 10101111 -0 0 de distâmeia