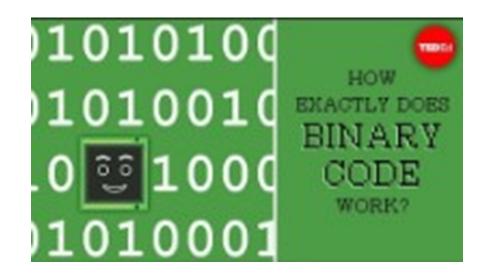
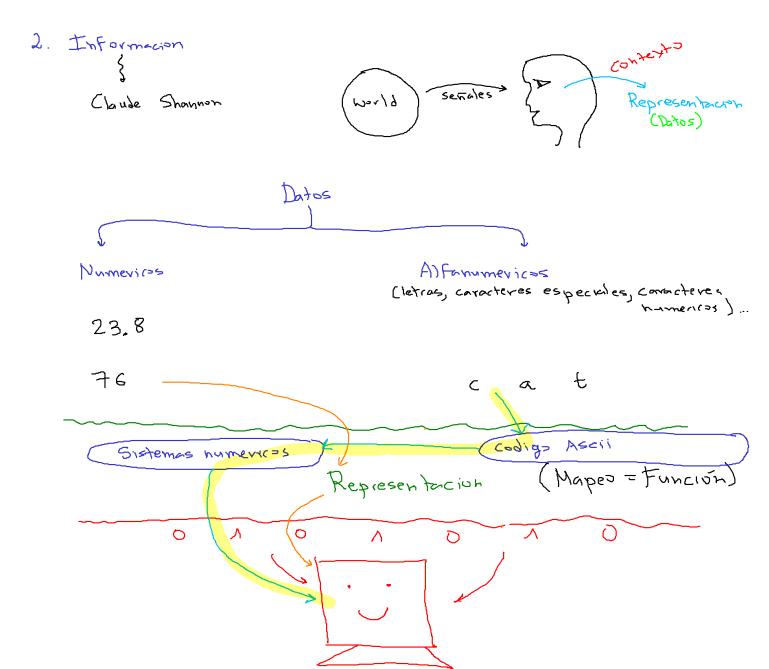
11/07/2025 - Matematicas Discretas 1 (Ude@/WV14-16)

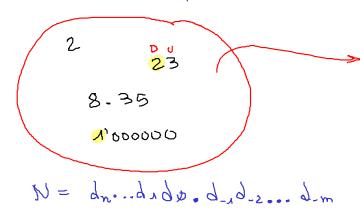
1. Introducción:

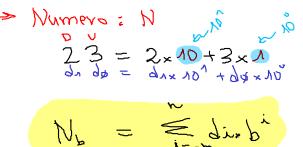


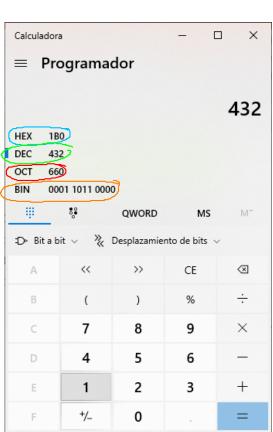


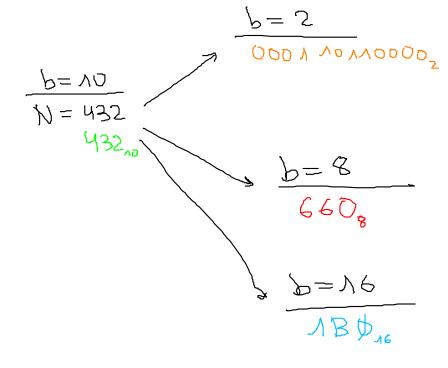


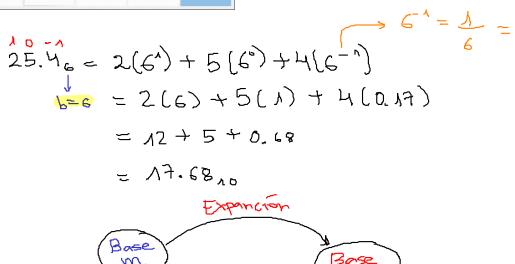












3. Sistemas numericos

Decimal, binario, octal y hexadecimal
b= 10 b= 8 b= 16

#### Decima):

\_ base: b = 10

- Digitos: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9

- tjemplos: 23, 6<sub>40</sub>

人2310

666

-7

#### Binario:

- base : b=2

- Digitos: O, A

X ONX A

0 7 7 0 0 0 0 0 1

10.012

### Octal:

\_ base: b=8

- Digitus: 0,1,2,3,4,5,6,7

4203

× 1× 8

#### Hexadecima):

\_ base: b=16

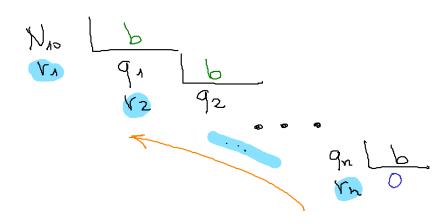
- Digitos: 0,1,2,3,4,5,6,7,8,9,A,B,C,D,E,F

12E1 X ≠A31E

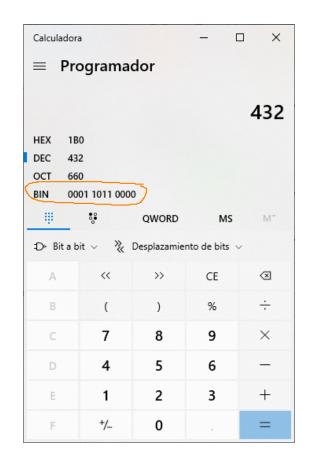
12FF16



## M. Divisiones Sucesivas

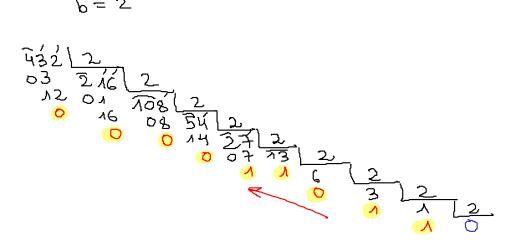


## Nb= Yn Yn-10-0 Yn

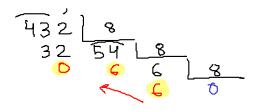


$$\forall . \ N^3 = 3$$

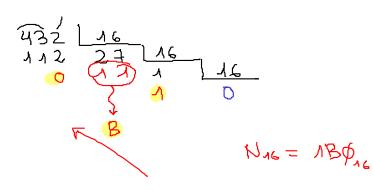
$$N_{10} = 432 = 432_{10} \longrightarrow N_{2} = ?$$



N2= 1101100002



Ng = 660g

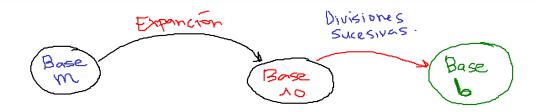




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# Decimal



$$^{10}42_{5} = 4(5^{1}) + 2(5^{\circ})$$

$$= 4(5) + 2(1)$$

$$= 20 + 2$$

$$= 22$$

$$42_5 = 24_9$$

6. Metodo Directo (Binaria, octa), Hexadecimal)
$$b=2$$

$$b=8=2^3$$

$$b=16=2^4$$

octa)	Bimario
O	000
4	001
<b>Q</b>	0 \ 0
3	D V V
4	۵ ۵ ۸
5	10 N
<b>6</b>	110
<del></del>	<b>カ</b> カカ

Hexadecimal	Binario
O	0000
4	000 1
2	00 0
3	00 Y 4
<u>0</u> 4	O V O D
6	0 ^ 0 A
6	ONNO
<del></del>	D V V VO
8	1000
ع ر	1001
(6x)A	0 2 0 2
B( YV)	V V O V
C (12)	۵ م ۸ ۸
D(V3)	1101
E ( 14)	9 7 7 9
E (YZ)	ヘススト

# Ejemplo:

$$P=8$$
  $000017770701 = 3028$ 

