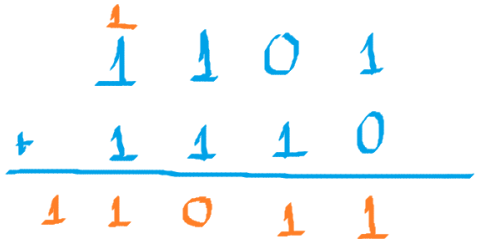
EXPLICADORES.NET
FLÁVIO BRAGANÇA
HARDWARE

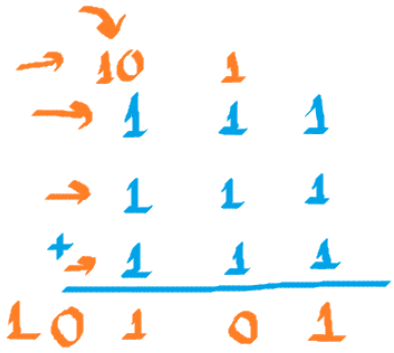
OPERAÇÕES EM OUTRAS BASES

BINÁRIOS

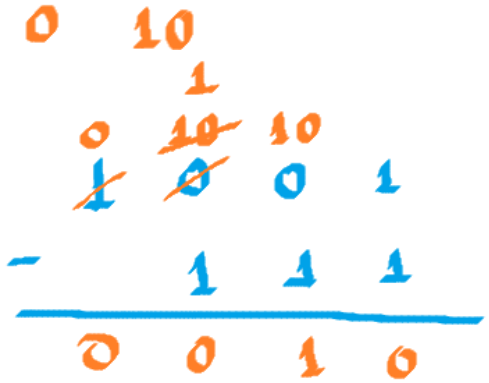
- **SOMA**
- **SUBTRAÇÃO**
- **MULTIPLICAÇÃO**
- **DIVISÃO**

SOMA

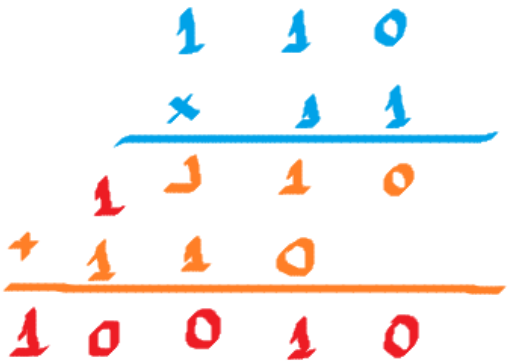




SUBTRAÇÃO



MULTIPLICAÇÃO



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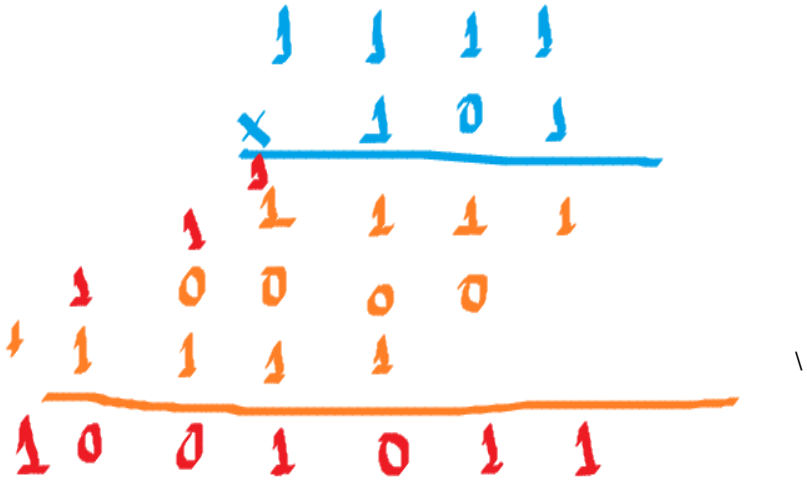

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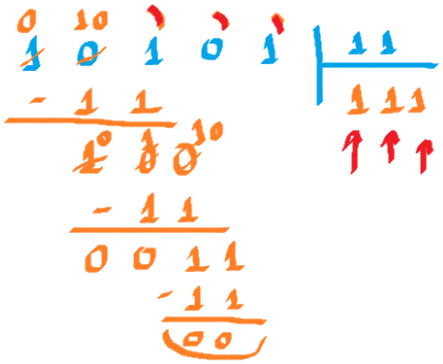
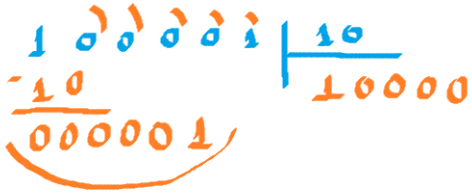
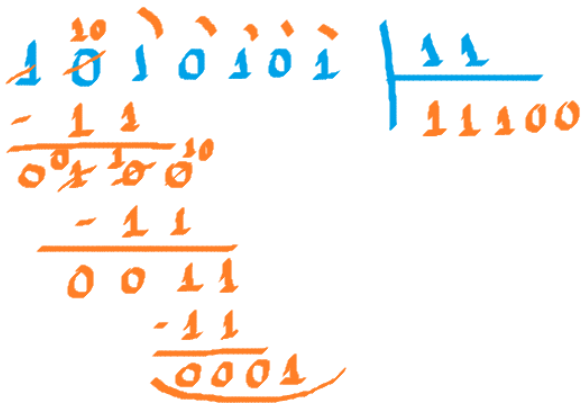
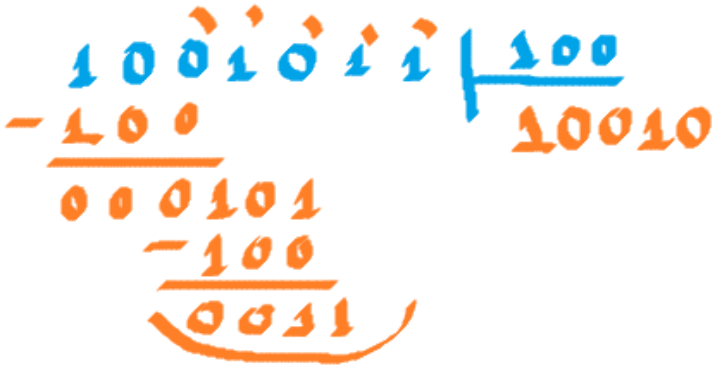
DIVISÃO









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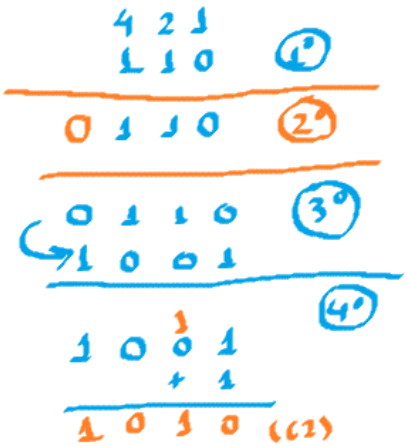
COMPLEMENTO A DOIS
REPRESENTAÇÃO BINÁRIA DE UM NÚMERO NEGATIVO

PASSO 1 : CONVERTER PARA BINÁRIO
PASSO 2 : PREENCHER A QUANTIDADE MÍNIMA DE BITS
4b 8b 16b 32b 64b……
PASSO 3 : COMPLEMENTO A 1
PASSO 4 : SOMA 1

-6(10) → (2) → (C2)



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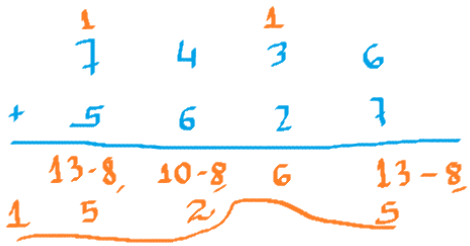
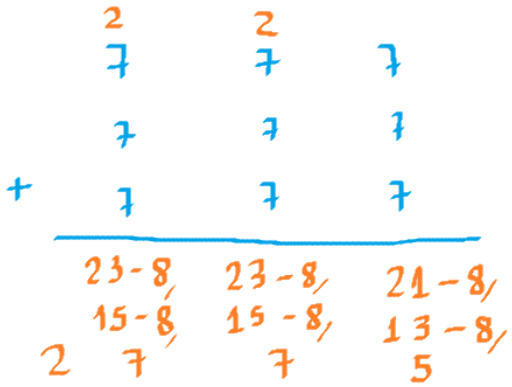
$-62 \rightarrow$

$$\begin{array}{r} 32\ 16\ 8\ 4\ 2\ 1 \\ 1\ 1\ 1\ 1\ 1\ 0 \\ \hline 0\ 0\ 1\ 1\ 1\ 1\ 1\ 0 \\ \hline 1\ 1\ 0\ 0\ 0\ 0\ 0\ 1 \\ \hline 1\ 1\ 0\ 0\ 0\ 0\ \overset{1}{0}\ 1 \\ +\ 1 \\ \hline 1\ 1\ 0\ 0\ 0\ 0\ 1\ 0\ (C2) \end{array}$$

OCTAL

SOMA





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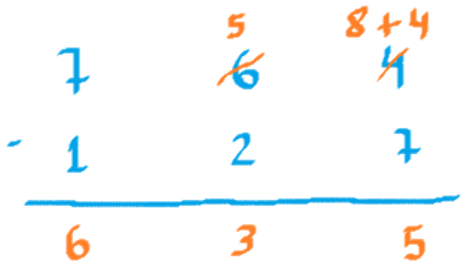
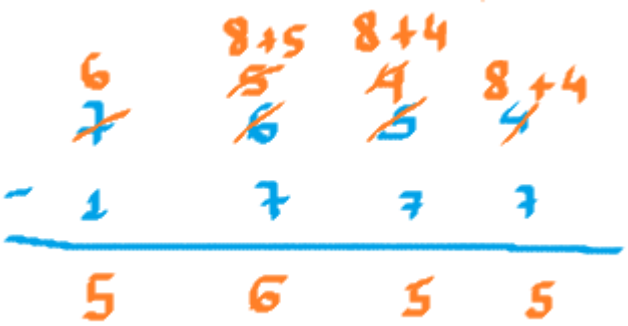
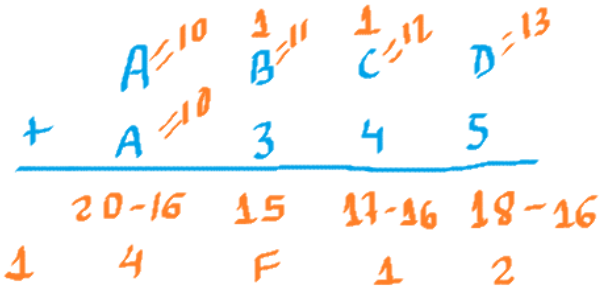
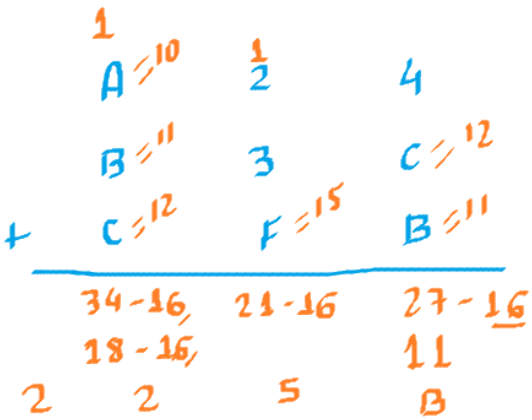
SUBTRAÇÃO





HEXADECIMAL
SOMA





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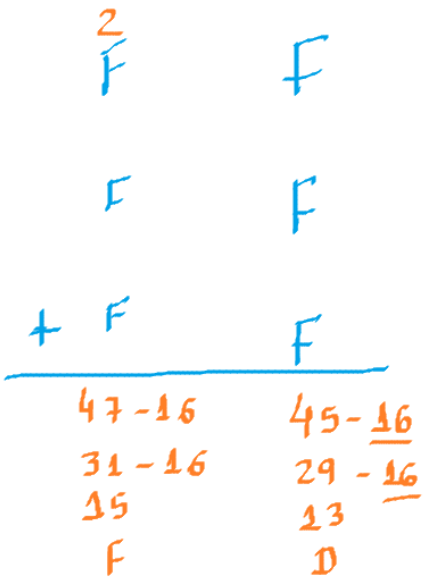
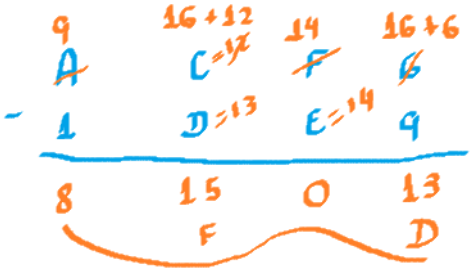
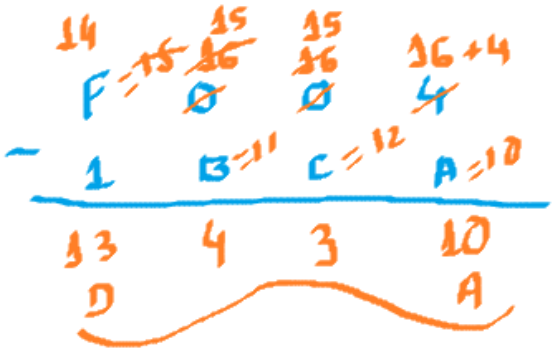

2
F F
F F
+ F F
47 - 16
31 - 16
15
F
45 - 16
29 - 16
13
D

SUBTRAÇÃO


9 16+12 14 16+6
A C=12 F G
- 1 D=13 E=14 9
8 15 0 13
F D


14 15 15 16+4
F 0 0 4
- 1 B=11 C=12 A=10
13 4 3 10
D A