



ATIVIDADE - AULA 04

1) Binários

A) $101_2 + 101_2$

$$\begin{array}{r} 101 \\ + 101 \\ \hline 1010 \end{array}$$

B) $10111_2 + 101$

$$\begin{array}{r} 10111 \\ + 101 \\ \hline 11100 \end{array}$$

C) $11101_2 + 1011_2$

$$\begin{array}{r} 11101 \\ + 1011 \\ \hline 101000 \end{array}$$

D) $1000_2 - 111_2$

$$\begin{array}{r} 1000 \\ - 111 \\ \hline 0001 \end{array}$$

E) $10101100_2 - 11_2$

$$\begin{array}{r} 10101100 \\ - 11 \\ \hline 10101001 \end{array}$$

F) $1100110011_2 - 1100111_2$

$$\begin{array}{r} 1100110011 \\ - 1100111 \\ \hline 1011001100 \end{array}$$

G) $1100_2 \times 1100_2$

$$\begin{array}{r} 1100 \\ \times 1100 \\ \hline 0000 \\ 1100 \\ \hline 110000 \end{array}$$

H) $1111111_2 \times 1111111_2$

$$\begin{array}{r} 1111111 \\ \times 1111111 \\ \hline 1111111 \\ 1111111 \\ 1111111 \\ 1111111 \\ 1111111 \\ 1111111 \\ \hline 1001000001 \end{array}$$

I) $110011_2 \times 10001_2$

$$\begin{array}{r} 110011 \\ \times 10001 \\ \hline 110011 \\ \hline 1100110001 \end{array}$$

J) $110011_2 \times 10001_2$

$$\begin{array}{r} 110011 \\ \times 10001 \\ \hline 110011 \\ \hline 1100110001 \end{array}$$

K) $110001_2 / 10_2$

$$\begin{array}{r} 110001 \\ : 10 \\ \hline 11000 \end{array}$$

L) $11111_2 / 10_2$

$$\begin{array}{r} 11111 \\ : 10 \\ \hline 1111 \end{array}$$

M) $11111_2 / 10_2$

$$\begin{array}{r} 11111 \\ : 10 \\ \hline 1111 \end{array}$$

N) $110011_2 \times 10001_2$

$$\begin{array}{r} 110011 \\ \times 10001 \\ \hline 110011 \\ \hline 1100110001 \end{array}$$

O) $110011_2 \times 10001_2$

$$\begin{array}{r} 110011 \\ \times 10001 \\ \hline 110011 \\ \hline 1100110001 \end{array}$$

P) $110011_2 \times 10001_2$

$$\begin{array}{r} 110011 \\ \times 10001 \\ \hline 110011 \\ \hline 1100110001 \end{array}$$

Q) $110011_2 \times 10001_2$

$$\begin{array}{r} 110011 \\ \times 10001 \\ \hline 110011 \\ \hline 1100110001 \end{array}$$

2^o) Octave

20-8012-804

A) $77_8 + 11_8$

$$\begin{array}{r} 77 \\ + 11 \\ \hline \end{array}$$

$$\begin{array}{r} 110 \\ \hline \end{array}$$

$$\begin{array}{r} 110 \\ \hline \end{array}$$

B) $172_8 + 157_8$

$$\begin{array}{r} 172 \\ + 157 \\ \hline \end{array}$$

$$\begin{array}{r} 1351 \\ \hline \end{array}$$

$$\begin{array}{r} 1351 \\ \hline \end{array}$$

C) $7361_8 + 666_8$

$$\begin{array}{r} 7361 \\ + 666 \\ \hline \end{array}$$

$$\begin{array}{r} 10247 \\ \hline \end{array}$$

$$\begin{array}{r} 10247 \\ \hline \end{array}$$

D) $7666_8 - 777_8$

$$\begin{array}{r} 7666 \\ - 777 \\ \hline \end{array}$$

$$\begin{array}{r} 6667 \\ \hline \end{array}$$

$$\begin{array}{r} 6667 \\ \hline \end{array}$$

E) $60001_8 - 1234_8$

$$\begin{array}{r} 60001 \\ - 1234 \\ \hline \end{array}$$

$$\begin{array}{r} 56545 \\ \hline \end{array}$$

$$\begin{array}{r} 56545 \\ \hline \end{array}$$

F) $4563_8 - 465_8$

$$\begin{array}{r} 4563 \\ - 465 \\ \hline \end{array}$$

$$\begin{array}{r} 4076 \\ \hline \end{array}$$

$$\begin{array}{r} 4076 \\ \hline \end{array}$$

G) $15_8 \times 4_8$

$$\begin{array}{r} 15 \\ \times 4 \\ \hline 64 \\ \hline \end{array}$$

H) $231_8 \times 31_8$ 9-70

$$\begin{array}{r} 231 \\ \times 31 \\ \hline 231 \\ 713 \\ \hline 713 \\ \hline \end{array}$$

$$\begin{array}{r} 713 \\ \hline \end{array}$$

I) $7154_8 \times 201_8$

$$\begin{array}{r} 7154 \\ \times 201 \\ \hline 7154 \\ 0000 \\ 14310 \\ \hline 14310 \\ \hline \end{array}$$

$$\begin{array}{r} 14310 \\ \hline \end{array}$$

$$\begin{array}{r} 14310 \\ \hline \end{array}$$

$$\begin{array}{r} 14310 \\ \hline \end{array}$$

$$\begin{array}{r} 14310 \\ \hline \end{array}$$

J) $25_8 / 11_8$

$$\begin{array}{r} 25 \\ \overline{) 11} \\ \hline \end{array}$$

$$\begin{array}{r} 22 \\ \overline{) 11} \\ \hline 03 \end{array}$$

$$\begin{array}{r} 03 \\ \hline \end{array}$$

K) $231_8 / 10_8$

$$\begin{array}{r} 231 \\ \overline{) 10} \\ \hline \end{array}$$

$$\begin{array}{r} 31 \\ \overline{) 23} \\ \hline \end{array}$$

$$\begin{array}{r} 31 \\ \hline \end{array}$$

L) $1243_8 / 7_8$

$$\begin{array}{r} 1243 \\ \overline{) 7} \\ \hline \end{array}$$

$$\begin{array}{r} 07 \\ \overline{) 1243} \\ \hline \end{array}$$

$$\begin{array}{r} 34 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \\ \hline \end{array}$$

$$\begin{array}{r} 03 \\ \hline \end{array}$$

$$17-16=1$$

$$14=E$$

$$12$$



3°) Hexadecimals

$$20-16=4$$

A) $77_{16} + 11_{16}$

$$\begin{array}{r} 77 \\ + 11 \\ \hline 88 \end{array}$$

G) $15_{16} \times 4_{16}$

$$\begin{array}{r} 15 \\ \times 4 \\ \hline 54 \end{array}$$

L) $1243_{16} / 7_{16}$

$$\begin{array}{r} 1243 \overline{) 17} \\ - E \\ \hline 344 \end{array}$$

B) $172_{16} + 157_{16}$

$$\begin{array}{r} 172 \\ + 157 \\ \hline 2C9 \end{array}$$

H) $231_{16} \times 31_{16}$

$$\begin{array}{r} 231 \\ \times 31 \\ \hline 231 \\ 693 \\ \hline 6B91 \end{array}$$

$$\begin{array}{r} 344 \\ - 3F \\ \hline 0183 \\ - 4D \\ \hline 06 \end{array}$$

C) $7361_{16} + 666_{16}$

$$\begin{array}{r} 7361 \\ + 666 \\ \hline 79C7 \end{array}$$

I) $7154_{16} \times 201_{16}$

$$\begin{array}{r} 7154 \\ \times 201 \\ \hline 7154 \\ 0000 \\ \hline 0000 \end{array}$$

$$4 \cdot 16^1 + 4 \cdot 16^0$$

$$64 + 4 = 68$$

$$7 \times 9 = 63$$

$$63 - 16 \ominus 47 - 16 \ominus 31 - 16 \ominus 15 = 3F$$

D) $7666_{16} - 777_{16}$

$$\begin{array}{r} 7666 \\ - 777 \\ \hline 6EEF \end{array}$$

E) $2A8$

$$\begin{array}{r} E31954 \end{array}$$

$$5 \cdot 16^1 + 3 \cdot 16^0$$

$$80 + 3 = 83$$

$$77 - 16 \ominus 61 - 16 \ominus 45 - 16 \ominus 29 - 16 \ominus 13 = 4D$$

E) $60001_{16} - 1234_{16}$

$$\begin{array}{r} 60001 \\ - 1234 \\ \hline 5EDCD \end{array}$$

J) $25_{16} / 11_{16}$

$$\begin{array}{r} 25 \overline{) 11} \\ (3) (2) \end{array}$$

K) $231_{16} / 10_{16}$

$$\begin{array}{r} 231 \overline{) 10} \\ - 20 \\ \hline (23) \end{array}$$

F) $4563_{16} - 465_{16}$

$$\begin{array}{r} 4563 \\ - 465 \\ \hline 40FE \end{array}$$

$$\begin{array}{r} 31 \\ - 30 \\ \hline 01 \end{array}$$