

Mult

$$\begin{array}{r}
 1011101 \\
 \times 11010 \\
 \hline
 0000000 \\
 1011101x \\
 1011101xxx \\
 1011101xxxx \\
 \hline
 100101110010
 \end{array}$$

8 C 1 2

¹1¹A F 23

$$\begin{array}{r}
 \lambda \quad 002 \\
 \hline
 35 E 46
 \end{array}$$

15 E 4 C 7 X X

15 E 8 2 5 4 6

$$2 \times F = 30/16 = 1R14$$

$$2 \times A = 20/16 = 1R5$$

$$D \times 3 = 39/16 = 2R7$$

$$\cancel{D \times 2 = 26/16 = 1R10}$$

$$D \times 2 + 2 = 28/16 = 1R12$$

D x F

$$13 \times 15 = 195 + 1 = 196$$

$$196/16 = 12.25$$

~~12 R 4~~
12 R 4

$$D \times A = 130 + C = 142/16$$

$$8.875 = 8R14$$

$$D + 8 = 21/16 = 1R5$$

Sub

$$\begin{array}{r}
 \overset{0}{1} \overset{1}{\cancel{0}} \overset{1}{\cancel{0}} \overset{1}{\cancel{0}} \overset{0}{0} \\
 \phantom{\cancel{0}} \phantom{\cancel{0}} \phantom{\cancel{0}} \\
 \hline
 10011
 \end{array}$$

$$\begin{array}{r}
 \overset{0}{1} \overset{1}{\cancel{0}} \overset{1}{\cancel{0}} \overset{1}{\cancel{0}} \overset{1}{\cancel{0}} \overset{0}{0} \overset{0}{0} \overset{1}{1} \\
 \phantom{\cancel{0}} \phantom{\cancel{0}} \phantom{\cancel{0}} \phantom{\cancel{0}} \\
 \hline
 10000100
 \end{array}$$

Dec: $\overset{0}{\cancel{1}} \overset{9}{\cancel{0}} \overset{10}{\cancel{0}}$

$$\begin{array}{r}
 100 \\
 -1 \\
 \hline
 99
 \end{array}$$

Bin: $\overset{8}{\cancel{1}} \overset{9}{\cancel{0}} \overset{9}{\cancel{0}}$

$$\begin{array}{r}
 4 \\
 -1 \\
 \hline
 3
 \end{array}$$

Div Binary

1 1 1 1

1 1) ~~x~~ 0 1 1 0 1

1 1 ↓

~~x~~ 0 1

1 1

~~0~~ ~~1~~ ~~0~~

1 1

1 1

1 1

0

Div Hex

$$\begin{array}{r} \text{D989} \\ 9 \overline{) 7A5D1} \\ \underline{75} \\ 55 \\ \underline{51} \\ 4D \\ \underline{48} \\ 51 \\ \underline{51} \\ 0 \end{array}$$

← $7A = 122/9 = \textcircled{13} \cancel{55}$

$$117/16 = 7.3125 \quad (.3125 \times 16 = 5) = 75$$

$$55 = 85/9 = \textcircled{9} \cancel{44}$$

$$81/16 = 5.0625 \quad (.0625 \times 16 = 1) = 501$$

$$4D = 77/9 = \textcircled{8} \cancel{55}$$

$$72/16 = 4(5 \times 16 = 8) = 48$$

$$51 = 81/9 = \textcircled{9}$$

$$81/16 = 51$$

No remainder!