

0  
1  
2  
3  
4  
5  
6  
7  
8  
9  
10

✓  
$$\begin{array}{r} 9 \\ + 1 \\ \hline 10 \end{array}$$

$$\begin{matrix} 10^2 & 10^1 & 10^0 \\ 100\text{'s} & 10\text{'s} & 1\text{'s} \\ (3 & 4 & 4)_{10} \end{matrix}$$

0  
1  
2  
3  
4  
10

$$\begin{array}{r} 4 \\ 7 \overline{) 10} \\ 10 \end{array}$$

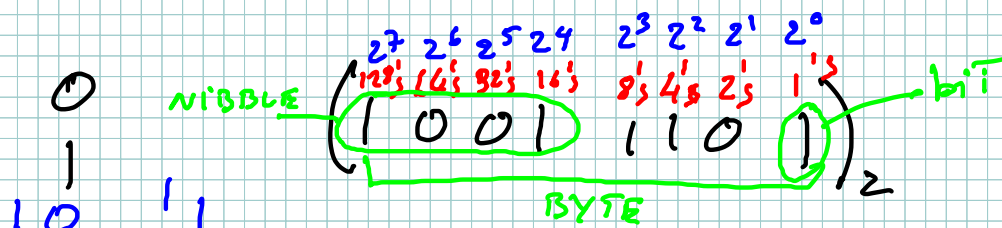
$$\begin{array}{c} 5^2 \quad 5^1 \quad 5^0 \\ 25 \quad 5 \quad 1 \\ (3 \quad 4 \quad 4)_5 \end{array}$$

$$3 \times 5^2 = 3 \times 25 = 75$$

$$4 \times 5^1 = 4 \times 5 = 20$$

$$4 \times 5^0 = 4 \times 1 = 4$$

$$\hline (99)_{10}$$



$$\begin{array}{r}
 10 \\
 \times 11 \\
 \hline
 10 \\
 + 10 \\
 \hline
 110
 \end{array}$$

$$\begin{array}{rcl}
 1 \times 2^7 & = & 1 \times 128 = 128 \\
 0 \times 2^6 & = & - - - = 0 \\
 0 \times 2^5 & = & - - - = 0 \\
 1 \times 2^4 & = & 1 \times 16 = 16 \\
 1 \times 2^3 & = & 1 \times 8 = 8 \\
 1 \times 2^2 & = & 1 \times 4 = 4 \\
 0 \times 2^1 & = & - - - = 0 \\
 1 \times 2^0 & = & 1 \times 1 = 1 \\
 \hline
 & & (157)_{10}
 \end{array}$$

$$\begin{array}{r}
 157 \\
 128 \\
 \hline
 29 \\
 16 \\
 \hline
 13 \\
 8 \\
 \hline
 5 \\
 4 \\
 \hline
 1
 \end{array}$$

$$(157)_{10} \rightarrow (10011101)_2$$

(9
0)
16

128	64	32	16	8	4	2	1
1	0	0	1	1	1	0	1

0	0	0000
1	1	0001
2	2	0010
3	3	0011
4	4	0100
5	5	0101
6	6	0110
7	7	0111

8	8	1000
9	9	1001
Alpha	10	1010
Baker	11	1011
Charlie	12	1100
Dog	13	1101
Easy	14	1110
Fox	15	1111

$$(9D)_{16} = (1001\ 1101)_2$$

$$\begin{aligned} 9 \times 16^1 &= 9 \times 16 = 144 \\ D \times 16^0 &= 13 \times 1 = 13 \\ \hline & (157)_{10} \end{aligned}$$