

$$63_{10} = 6 \cdot 10^1 + 3 \cdot 10^0$$

$$1234_{10} = 1 \cdot 10^3 + 2 \cdot 10^2 + 3 \cdot 10^1 + 4 \cdot 10^0$$

$$16 \rightarrow 8$$

$$2A_{16} = 0010\ 1010_2 = 52_8$$

$$325_8 = 011\ 010\ 101 = 0D5_{16}$$

0	0000
1	0001
2	0010
3	0011
4	0100
5	0101
6	0110
7	0111
8	1000
9	1001
A	1010
B	1011
C	1100
D	1101
E	1110
F	1111

$$\cancel{65_{16} = 0110\ 0101_2}$$

$$2 \times 2 \times 2 \times 2 = 4 \times 4 = 16$$

~~9A~~

$$41_{16} = 0100\ 0001_2 \quad 'A'$$

$$1A_{16} = 0001\ 1010_2 \quad \text{SUB}$$

$$3F_{16} = 0011\ 1111_2 \quad '2'$$

$$125_{10} = 1 \cdot 10^2 + 2 \cdot 10^1 + 5 \cdot 10^0$$

$$3F_{16} = 3 \cdot 16^1 + 15 \cdot 16^0 = 63_{10}$$