

$0, 1, 2, \dots, 9, A, B, C, D, E, F$ (16)

$45_{(10)} = x_{(16)} = 101101_{(16)}$

$45 = 3 \cdot 16 + 9 + 1$
 $2^5 \quad 2^4 \quad 2^3 \quad 2^2 \quad 2^1 \quad 2^0$

$101101_{(16)} = x_{(16)} = 15_{(16)}$

$1 \cdot 2^5 + 1 \cdot 2^4 + 1 \cdot 2^3 + 0 \cdot 2^2 + 1 \cdot 2^1 + 1 \cdot 2^0 = 16 + 8 + 2 = 26$

$$\begin{array}{r} 1111 \\ 1011_{(16)} = 11 + 16 = 27 \\ 1011_{(16)} = 11 + 16 = 27 \\ \hline 10000_{(16)} = 16 \end{array}$$

$$\begin{array}{r} 1011 \\ \times 101 \\ \hline 1011 \\ 1011 \\ \hline 11011_{(16)} = 1 + 16 + 16 + 32 = 65 \end{array}$$

$$\begin{array}{r} 100 \\ 1100 : 11 \\ \hline 11 \\ \hline 00 \end{array}$$

$12:3=4$

$1100101011_{(10)} = (5)$

$30123_{(10)} = 2^5$

$11001_{(10)}$

$AF9B_{(16)} = x_{(16)}$

$1011111110101100_{(16)}$

$D \cdot 16^6 + 9 \cdot 16^5 + F \cdot 16^4 + A \cdot 16^3 = 11$

$11 + 9 \cdot 16 + 15 \cdot 256 + 10 \cdot 4096$

$10_{(16)} = A_{(10)} = 10101_{(16)}$

$16 \quad F_{(10)} = 1111_{(16)}$

$9 \quad 9 = 1010_{(16)}$

$B_{(16)} = 1100_{(16)}$

$101110011_{(10)} = x_{(16)}$

$38^2 + 6 \cdot 8^2 + 5 \cdot 4^2 = 5 + 16 \cdot 320_{(10)}$

$173_{(10)}$

$37F_{(16)} = x_{(16)}$

$10110111111_{(16)}$

31333

$0 = 0$

$[0] = 1$

$[0, [0]] = 2$

$1111_{(16)} = 4B C D E F$

$1532_{(10)} = x_{(16)}$

$8 \cdot 16^3 + 5 \cdot 16^2 + 3 \cdot 16^1 = 9_{(10)}$

$3 \cdot 16^6 + 12 \cdot 16^5 + 4 \cdot 16^4 + 8 \cdot 16^3 = 3 + 192 + 4 \cdot 1536 + 31768$

$195 + 1024 + 51368$

$15432_{(10)} =$

$3C48_{(16)}$

$3 \cdot 16^3 + 12 \cdot 16^2 + 4 \cdot 16^1 + 8 \cdot 16^0$

$15432_{(10)}$

$15432 : 16$

$964 \quad 4$

$60 \quad 12 = C$

$3 \quad 3$

0

$78230_{(10)} = (8)$

$78230_{(10)}$

$123067_{(10)} =$

$68^2 + 28^1 + 68^2 + 3 \cdot 8^1 + 2 \cdot 8^5 =$

$010644000170010110_{(16)} = 1519_{(16)}$

$100 \quad 4$

$101 \quad 5$

$110 \quad 6$

$111 \quad 7$