$(127)_{10}$

2	127	
2	63	1
2	31	1
2	15	1
2	7	1
2	3	1
	1	1

$(127)_{10} = (1111111)_2$

$\underline{1\,1\,1\,1\,1\,1\,1}$ $\quad$ $\underline{1\,1\,1\,1\,1\,1\,1}$

$(1\ 7\ 7)_8$ $\quad$ $(7\ F)_{16}$

$1\times8^2+7\times8^1+7\times8^0 = 7\times16^1+F\times16^0$

$64+56+7 = 112+15$

$(127)_{10} = (127)_{10}$

$(10101)_2$

$\underline{10\,101}$ $\quad$ $\underline{10101}$

$(2\ 5)_8$ $\quad$ $(1\ 5)_{16}$

$2\times8^1+5\times8^0 = 1\times16^1+5\times16^0$

$16+0 = 16+0$

$16 = 16$

$(71)_8$

$7\ 1$ $\quad$ $\underline{11\,001}$

$(111\ 001)_2$ $\quad$ $(3\ \ 9)_{16}$

$1\times2^5+1\times2^4+1\times2^3+0\times2^2+0\times2^1+1\times2^0 =$

$32+16+8+0+0+1 = (57)_{10}$

$3\times16^1+9\times16^0 = 48+9 = (57)_{10}$

$(AB)_{16}$

$A\ \ B$ $\quad$ $\underline{1010\,1011}$

$(1010\ \ 1011)_2$ $\quad$ $(2\ 5\ 3)_8$

$1\times2^7+0\times2^6+1\times2^5+0\times2^4+1\times2^3+0\times2^2+1\times2^1+1\times2^0 =$

$128+0+32+0+8+0+2+1 = (171)_{10}$

$2\times8^2+5\times8^1+3\times8^0 =$

$128+40+3 = (171)_{10}$