

$$\textcircled{1} (0,1010)_2$$

$$0 \times 2^0 = 0$$

$$1 \times 2^{-1} + 1 \times 2^{-3} = 0,625$$

$$(0,625)_{10}$$

$$(1000,1011)_2$$

$$1 \times 2^3 = 8$$

$$1 \times 2^{-1} + 1 \times 2^{-3} + 1 \times 2^{-4}$$

$$0,6875$$

$$(8,6875)_{10}$$

$$(10111,0101)_2$$

$$1 \times 2^4 + 1 \times 2^3 + 1 \times 2^2 + 1 \times 2^1 + 1 \times 2^0$$

$$23$$

$$1 \times 2^{-2} + 1 \times 2^{-4}$$

$$0,3125$$

$$(23,3125)_{10}$$

$$\textcircled{2} (81,4610)_{10}$$

$$\begin{array}{r} 81 \div 2 \\ 1 \ 40 \div 2 \\ 0 \ 20 \div 2 \\ 0 \ 10 \div 2 \\ 0 \ 5 \div 2 \\ 1 \ 2 \div 2 \\ 0 \ 1 \div 2 \\ 1 \ 0 \end{array}$$

$$1010001$$

$$0,4610 \times 2 = 0$$

$$0,922 \times 2 = 1$$

$$0,844 \times 2 = 1$$

$$0,688 \times 2 = 1$$

$$0,376 \times 2 = 0$$

$$0,752 \times 2 = 1$$

$$0,504 \times 2 = 1$$

$$,0111011$$

$$(0,93710)_{10}$$

$$93710 \times 2 = 1,8742$$

$$8742 \times 2 = 1,7484$$

$$7484 \times 2 = 1,4968$$

$$4968 \times 2 = 0,9936$$

$$9936 \times 2 = 1,9872$$

$$9872 \times 2 = 1,9744$$

$$9744 \times 2 = 1,9488$$

$$9488 \times 2 = 1,8976$$

$$(0,1110111)_2$$

$$(0,526510)_{10}$$

$$52651 \times 2 = 1,05302$$

$$05302 \times 2 = 0,10604$$

$$10604 \times 2 = 0,21208$$

$$21208 \times 2 = 0,42416$$

$$42416 \times 2 = 0,84832$$

$$84832 \times 2 = 1,69664$$

$$69664 \times 2 = 1,39328$$

$$39328 \times 2 = 0,78656$$

$$(0,100001101)_2$$

$$(1010001,0111011)_2$$

$$\textcircled{3} 1111000 + 100011$$

$$\begin{array}{r} 1111000 \\ + 100011 \\ \hline 10011011 \end{array}$$

$$10011011$$

$$\text{previo result}$$

$$120 + 35 = 155$$

$$100000 + 1111$$

$$\begin{array}{r} 100000 \\ + 1111 \\ \hline 101111 \end{array}$$

$$\text{previo result}$$

$$32 + 15 = 47$$

$$1001001 + 101110$$

$$\begin{array}{r} 1001001 \\ + 101110 \\ \hline 1110111 \end{array}$$

$$\text{previo result}$$

$$76 + 46 = 119$$

$$4) 1111000 - 100011$$

$$\begin{array}{r} 1111000 \\ - 100011 \\ \hline 1010101 \end{array}$$

$$120 - 35 = 85$$

$$100000 - 1111$$

$$\begin{array}{r} 100000 \\ - 1111 \\ \hline 100001 \end{array}$$

$$32 - 15 = 17$$

$$1001001 - 101110$$

$$\begin{array}{r} 1001001 \\ - 101110 \\ \hline 011011 \end{array}$$

$$73 - 46 = 27$$