

8044

تقریب از مبای 2 به 2 :

$$\begin{array}{r}
 8044 \div 2 \\
 \underline{-8044} \quad 4022 \div 2 \\
 \underline{-4022} \quad 2011 \div 2 \\
 \underline{-2010} \quad 1005 \div 2 \\
 \underline{-1004} \quad 502 \div 2 \\
 \underline{-502} \quad 251 \div 2 \\
 \underline{-250} \quad 125 \div 2 \\
 \underline{-124} \quad 62 \div 2 \\
 \underline{-62} \quad 31
 \end{array}$$

1111101101100

از مبای 2 به 1 :

$$\begin{array}{cccccccccccc}
 & & 1 \times 2^{12} & & & & & & & & 0 \times 2^0 & & \\
 & & \swarrow & & \swarrow & & \swarrow & & \swarrow & & \swarrow & & \\
 1 \times 2^{11} & & 1 \times 2^{10} & & 1 \times 2^9 & & 1 \times 2^8 & & 1 \times 2^7 & & 1 \times 2^6 & & 1 \times 2^5 \\
 & & \swarrow & & \swarrow & & \swarrow & & \swarrow & & \swarrow & & \\
 & & & & 0 \times 2^4 & & 1 \times 2^3 & & 1 \times 2^2 & & 0 \times 2^1 & & 
 \end{array}$$

$$4096 + 2048 + 1024 + 512 + 256 + 0 + 64 + 32 + 0 + 8 + 4 + 0 + 0 = 8044$$