

$$15H = (5 * 16^0) + (1 * 16^1) = (21)_{10}$$

$$12H = (2 * 16^0) + (1 * 16^1) = (18)_{10}$$

$$21 * 18 = 378$$

$$\begin{array}{r} 32 \\ \hline 58 \\ 48 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 16 \\ \hline 23 \\ 16 \\ \hline 7 \end{array}$$