

2. Convert the following binary numbers to decimal

A. 01101110_2 :

$\begin{array}{r} 32 \\ 64 \ 16 \ 8 \ 4 \ 2 \ 1 \end{array}$

$$64 + 32 + 8 + 4 + 2 = \boxed{110_{10}}$$

B. 11101011_2 :

$\begin{array}{r} 128 \ 64 \ 32 \ 16 \ 8 \ 4 \ 2 \ 1 \end{array}$

$$128 + 64 + 32 + 8 + 2 + 1 = \boxed{235_{10}}$$

C. 10011010_2 :

$\begin{array}{r} 128 \ 64 \ 32 \ 16 \ 8 \ 4 \ 2 \ 1 \end{array}$

$$128 + 64 + 8 + 2 = \boxed{154_{10}}$$