

TEJ4M - BINARY ADDITION

1.) Add the following binary numbers. (show your work)

a.)
$$\begin{array}{r} 1011_2 \\ + 111_2 \\ \hline \end{array}$$

b.)
$$\begin{array}{r} 10001_2 \\ + 1101_2 \\ \hline \end{array}$$

c.)
$$\begin{array}{r} 1111_2 \\ + 101_2 \\ \hline \end{array}$$

d.)
$$\begin{array}{r} 1010_2 \\ + 110_2 \\ \hline \end{array}$$

e.)
$$\begin{array}{r} 11100_2 \\ + 10111_2 \\ \hline \end{array}$$

f.)
$$\begin{array}{r} 100011_2 \\ + 11110_2 \\ \hline \end{array}$$

g.)
$$\begin{array}{r} 101_2 \\ + 111_2 \\ \hline \end{array}$$

h.)
$$\begin{array}{r} 1111_2 \\ + 1001_2 \\ \hline \end{array}$$

i.)
$$\begin{array}{r} 1001_2 \\ + 101_2 \\ \hline \end{array}$$

j.)
$$\begin{array}{r} 101011_2 \\ + 101100_2 \\ \hline \end{array}$$

k.)
$$\begin{array}{r} 111_2 \\ + 111_2 \\ \hline \end{array}$$

l.)
$$\begin{array}{r} 11011_2 \\ + 10110_2 \\ \hline \end{array}$$

$$\begin{array}{r} \checkmark \text{ a) } 1011 \\ + 0111 \\ \hline 10010 \end{array}$$

$$\begin{array}{r} \checkmark \text{ b) } 10001 \\ + 01101 \\ \hline 11110 \end{array}$$

$$\begin{array}{r} \checkmark \text{ c) } 1111 \\ + 0101 \\ \hline 10100 \end{array}$$

$$\begin{array}{r} \checkmark \text{ d) } 1010 \\ + 0110 \\ \hline 10000 \end{array}$$

$$\begin{array}{r} \checkmark \text{ e) } 11100 \\ + 10111 \\ \hline 110011 \end{array}$$

$$\begin{array}{r} \checkmark \text{ f) } 100011 \\ + 011110 \\ \hline 1000001 \end{array}$$

$$\begin{array}{r} \checkmark \text{ g) } 101 \\ + 111 \\ \hline 1100 \end{array}$$

$$\begin{array}{r} \checkmark \text{ h) } 1111 \\ + 1001 \\ \hline 11000 \end{array}$$

$$\begin{array}{r} \checkmark \text{ i) } 1001 \\ + 0101 \\ \hline 1110 \end{array}$$

$$\begin{array}{r} \checkmark \text{ j) } 101011 \\ + 101100 \\ \hline 1010111 \end{array}$$

$$\begin{array}{r} \checkmark \text{ k) } 111 \\ + 111 \\ \hline 1110 \end{array}$$

$$\begin{array}{r} \checkmark \text{ l) } 11011 \\ + 10110 \\ \hline 110001 \end{array}$$