

Name : /shaan VScore : Teacher : Mr. SoinDate : 9/15/2021**Binary Addition and Subtraction****Add or Subtract the given Binary numbers.**

$$\begin{array}{r}
 1) \quad \begin{array}{ccccccc} & 0 & 1 & 1 & 2 & 2 & \\ & 1 & 0 & 0 & 1 & 0 & 1 & 1 \\ - & 0 & 1 & 1 & 1 & 0 & 1 & 1 & 0 \\ \hline & 0 & 0 & 0 & 1 & 0 & 1 & 0 & 1 \end{array}
 \end{array}$$

$$\begin{array}{r}
 2) \quad \begin{array}{ccccccc} & 0 & 1 & 2 & & & \\ & 1 & 0 & 0 & 1 & 0 & 1 & 1 \\ - & 0 & 1 & 1 & 0 & 0 & 0 & 1 & 1 \\ \hline & 0 & 0 & 1 & 0 & 1 & 0 & 0 & 0 \end{array}
 \end{array}$$

$$\begin{array}{r}
 3) \quad \begin{array}{ccccccc} & 1 & & 1 & 1 & & \\ & 0 & 1 & 1 & 0 & 0 & 1 & 1 \\ + & 1 & 1 & 0 & 1 & 0 & 1 & 1 & 1 \\ \hline & 1 & 0 & 0 & 1 & 1 & 1 & 0 & 1 & 0 \end{array}
 \end{array}$$

$$\begin{array}{r}
 4) \quad \begin{array}{ccccccc} & & & 0 & 2 & 2 & \\ & 1 & 1 & 1 & 1 & 1 & 0 & 1 \\ - & 1 & 1 & 0 & 1 & 0 & 1 & 1 & 1 \\ \hline & 0 & 0 & 1 & 0 & 0 & 1 & 1 & 0 \end{array}
 \end{array}$$

$$\begin{array}{r}
 5) \quad \begin{array}{ccccccc} & 1 & 1 & 1 & 1 & & \\ & 1 & 1 & 1 & 1 & 1 & 0 & 1 \\ + & 0 & 1 & 1 & 1 & 1 & 0 & 0 & 0 \\ \hline & 1 & 0 & 1 & 1 & 1 & 0 & 1 & 0 & 1 \end{array}
 \end{array}$$

$$\begin{array}{r}
 6) \quad \begin{array}{ccccccc} & 1 & 1 & 1 & 1 & & \\ & 0 & 1 & 1 & 1 & 1 & 0 & 0 & 0 \\ + & 1 & 0 & 1 & 1 & 1 & 0 & 0 & 0 \\ \hline & 1 & 0 & 0 & 1 & 1 & 0 & 0 & 0 \end{array}
 \end{array}$$

$$\begin{array}{r}
 7) \quad \begin{array}{ccccccc} & & 2 & 2 & & & \\ & 1 & 1 & 1 & 0 & 1 & 0 & 0 & 0 \\ - & 1 & 0 & 1 & 1 & 1 & 0 & 0 & 0 \\ \hline & 0 & 0 & 1 & 1 & 0 & 0 & 0 & 0 \end{array}
 \end{array}$$

$$\begin{array}{r}
 8) \quad \begin{array}{ccccccc} & 0 & 2 & 2 & 0 & 1 & 2 & \\ & 1 & 1 & 1 & 0 & 1 & 0 & 0 & 0 \\ - & 1 & 0 & 1 & 1 & 0 & 1 & 1 & 0 \\ \hline & 0 & 0 & 1 & 1 & 0 & 0 & 1 & 0 \end{array}
 \end{array}$$

$$\begin{array}{r}
 9) \quad \begin{array}{ccccccc} & 1 & 1 & & 1 & & \\ & 1 & 0 & 1 & 1 & 0 & 1 & 1 & 0 \\ + & 1 & 1 & 1 & 0 & 0 & 1 & 0 & 0 \\ \hline & 1 & 1 & 0 & 0 & 1 & 1 & 0 & 1 & 0 \end{array}
 \end{array}$$

$$\begin{array}{r}
 10) \quad \begin{array}{ccccccc} & 1 & 1 & & & & \\ & 1 & 1 & 1 & 0 & 0 & 1 & 0 & 0 \\ + & 1 & 1 & 1 & 0 & 1 & 0 & 1 & 1 \\ \hline & 1 & 1 & 1 & 0 & 0 & 1 & 1 & 1 \end{array}
 \end{array}$$

$$\begin{array}{r}
 11) \quad \begin{array}{ccccccc} & 1 & 1 & 1 & 0 & 1 & 0 & 1 & 1 \\ - & 1 & 0 & 1 & 0 & 1 & 0 & 1 & 1 \\ \hline & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \end{array}
 \end{array}$$

$$\begin{array}{r}
 12) \quad \begin{array}{ccccccc} & 1 & 0 & 1 & 0 & 1 & 0 & 1 & 1 \\ - & 1 & 0 & 1 & 0 & 1 & 0 & 0 & 1 \\ \hline & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \end{array}
 \end{array}$$

$$\begin{array}{r}
 13) \quad \begin{array}{ccccccc} & & 1 & & & & \\ & 1 & 0 & 1 & 0 & 1 & 0 & 0 & 1 \\ + & 1 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ \hline & 1 & 0 & 0 & 1 & 1 & 0 & 0 & 0 & 1 \end{array}
 \end{array}$$

$$\begin{array}{r}
 14) \quad \begin{array}{ccccccc} & 1 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ + & 1 & 1 & 1 & 1 & 0 & 0 & 1 & 1 \\ \hline & 1 & 0 & 1 & 1 & 1 & 0 & 1 & 1 \end{array}
 \end{array}$$

$$\begin{array}{r}
 15) \quad \begin{array}{ccccccc} & 1 & 1 & 1 & 1 & 1 & 0 & 1 & 1 \\ - & 1 & 1 & 1 & 1 & 0 & 0 & 1 & 1 \\ \hline & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \end{array}
 \end{array}$$

$$\begin{array}{r}
 16) \quad \begin{array}{ccccccc} & 1 & 1 & 1 & 1 & 1 & 0 & 1 & 1 \\ - & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 1 \\ \hline & 0 & 0 & 1 & 1 & 1 & 0 & 1 & 0 \end{array}
 \end{array}$$