

Name _____

Per _____

KEY---Binary Numbers Mathematics

Complete the following addition problems:

$$\begin{array}{r} 1. \quad 101 \\ + \quad 011 \\ \hline 1000 \end{array}$$

$$\begin{array}{r} 6. \quad 10111 \\ + \quad 01010 \\ \hline 010101 \end{array}$$

$$\begin{array}{r} 2. \quad 1010 \\ + \quad 1001 \\ \hline 10011 \end{array}$$

$$\begin{array}{r} 7. \quad 1001001 \\ + \quad 0101010 \\ \hline 1110011 \end{array}$$

$$\begin{array}{r} 3. \quad 1001 \\ + \quad 0110 \\ \hline 1111 \end{array}$$

$$\begin{array}{r} 8. \quad 1001011 \\ + \quad 0110101 \\ \hline 1000000 \end{array}$$

$$\begin{array}{r} 4. \quad 1011 \\ + \quad 0111 \\ \hline 10010 \end{array}$$

$$\begin{array}{r} 9. \quad 1011101 \\ + \quad 0101101 \\ \hline 10001010 \end{array}$$

$$\begin{array}{r} 5. \quad 11001 \\ + \quad 11011 \\ \hline 110100 \end{array}$$

$$\begin{array}{r} 10. \quad 0111111 \\ + \quad 1111111 \\ \hline 10111110 \end{array}$$

Multiple the following:

$$\begin{array}{r} 1. \quad 101 \\ \times \quad 11 \\ \hline 1111 \end{array}$$

$$\begin{array}{r} 8. \quad 11001 \\ \times \quad 110 \\ \hline 10010110 \end{array}$$

$$\begin{array}{r} 2. \quad 111 \\ \times \quad 10 \\ \hline 1110 \end{array}$$

$$\begin{array}{r} 9. \quad 11111 \\ \times \quad 111 \\ \hline 111011001 \end{array}$$

$$\begin{array}{r}
 3. \quad 1101 \\
 \times \quad 11 \\
 \hline
 100111
 \end{array}$$

$$\begin{array}{r}
 10. \quad 10111 \\
 \times \quad 101 \\
 \hline
 1110011
 \end{array}$$

$$\begin{array}{r}
 4. \quad 10101 \\
 \times \quad 101 \\
 \hline
 1101001
 \end{array}$$

$$\begin{array}{r}
 5. \quad 11101 \\
 \times \quad 111 \\
 \hline
 11001011
 \end{array}$$

$$\begin{array}{r}
 6. \quad 11011 \\
 \times \quad 101 \\
 \hline
 10000111
 \end{array}$$

$$\begin{array}{r}
 7. \quad 11100 \\
 \times \quad 111 \\
 \hline
 11000100
 \end{array}$$