

# Operations with Binary Numbers (A)

Calculate each answer.

$$\begin{array}{r} 10010_2 \\ + 111_2 \\ \hline \end{array}$$

$$110_2 \overline{)10010000_2}$$

$$\begin{array}{r} 11101_2 \\ + 1110_2 \\ \hline \end{array}$$

$$101_2 \overline{)111110_2}$$

$$\begin{array}{r} 110_2 \\ \times 110_2 \\ \hline \end{array}$$

$$\begin{array}{r} 110000_2 \\ - 10100_2 \\ \hline \end{array}$$

$$10_2 \overline{)111100_2}$$

$$\begin{array}{r} 111100_2 \\ - 11111_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11010_2 \\ - 1100_2 \\ \hline \end{array}$$

$$\begin{array}{r} 101011_2 \\ - 10011_2 \\ \hline \end{array}$$

$$\begin{array}{r} 10100_2 \\ \times 11_2 \\ \hline \end{array}$$

$$\begin{array}{r} 1101_2 \\ \times 111_2 \\ \hline \end{array}$$

$$110_2 \overline{)11111110_2}$$

$$\begin{array}{r} 110_2 \\ + 11100_2 \\ \hline \end{array}$$

$$\begin{array}{r} 10010_2 \\ \times 10_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11100_2 \\ \times 11_2 \\ \hline \end{array}$$

$$\begin{array}{r} 111010_2 \\ - 11111_2 \\ \hline \end{array}$$

$$110_2 \overline{)10101000_2}$$

$$\begin{array}{r} 11000_2 \\ - 10001_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11110_2 \\ \times 111_2 \\ \hline \end{array}$$

# Operations with Binary Numbers (A) Answers

Calculate each answer.

$$\begin{array}{r} 10010_2 \\ + 111_2 \\ \hline 11001_2 \end{array}$$

$$\begin{array}{r} 11000_2 \\ 110_2 \overline{)10010000_2} \end{array}$$

$$\begin{array}{r} 11101_2 \\ + 1110_2 \\ \hline 101011_2 \end{array}$$

$$\begin{array}{r} 110_2 \\ 101_2 \overline{)111110_2} \end{array}$$

$$\begin{array}{r} 110_2 \\ \times 110_2 \\ \hline 100100_2 \end{array}$$

$$\begin{array}{r} 110000_2 \\ - 10100_2 \\ \hline 11100_2 \end{array}$$

$$\begin{array}{r} 1110_2 \\ 10_2 \overline{)111100_2} \end{array}$$

$$\begin{array}{r} 111100_2 \\ - 11111_2 \\ \hline 11101_2 \end{array}$$

$$\begin{array}{r} 11010_2 \\ - 1100_2 \\ \hline 1110_2 \end{array}$$

$$\begin{array}{r} 101011_2 \\ - 10011_2 \\ \hline 11000_2 \end{array}$$

$$\begin{array}{r} 10100_2 \\ \times 11_2 \\ \hline 111100_2 \end{array}$$

$$\begin{array}{r} 1101_2 \\ \times 111_2 \\ \hline 1011011_2 \end{array}$$

$$\begin{array}{r} 10101_2 \\ 110_2 \overline{)1111110_2} \end{array}$$

$$\begin{array}{r} 110_2 \\ + 11100_2 \\ \hline 100010_2 \end{array}$$

$$\begin{array}{r} 10010_2 \\ \times 10_2 \\ \hline 100100_2 \end{array}$$

$$\begin{array}{r} 11100_2 \\ \times 11_2 \\ \hline 1010100_2 \end{array}$$

$$\begin{array}{r} 111010_2 \\ - 11111_2 \\ \hline 11011_2 \end{array}$$

$$\begin{array}{r} 11100_2 \\ 110_2 \overline{)10101000_2} \end{array}$$

$$\begin{array}{r} 11000_2 \\ - 10001_2 \\ \hline 111_2 \end{array}$$

$$\begin{array}{r} 11110_2 \\ \times 111_2 \\ \hline 11010010_2 \end{array}$$

# Operations with Binary Numbers (B)

Calculate each answer.

$$\begin{array}{r} 11001_2 \\ \times 10_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11111_2 \\ \times 100_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11111_2 \\ \times 101_2 \\ \hline \end{array}$$

$$\begin{array}{r} 1101_2 \\ + 10111_2 \\ \hline \end{array}$$

$$\begin{array}{r} 10011_2 \\ + 10100_2 \\ \hline \end{array}$$

$$\begin{array}{r} 1111_2 \\ \times 11_2 \\ \hline \end{array}$$

$$\begin{array}{r} 111101_2 \\ - 11111_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11010_2 \\ - 1001_2 \\ \hline \end{array}$$

$$\begin{array}{r} 1011_2 \\ \times 100_2 \\ \hline \end{array}$$

$$\begin{array}{r} 100011_2 \\ - 1010_2 \\ \hline \end{array}$$

$$\begin{array}{r} 101001_2 \\ - 11001_2 \\ \hline \end{array}$$

$$\begin{array}{r} 101100_2 \\ - 10101_2 \\ \hline \end{array}$$

$$\begin{array}{r} 101101_2 \\ - 11101_2 \\ \hline \end{array}$$

$$\begin{array}{r} 100_2 \\ \times 11_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11111_2 \\ + 1100_2 \\ \hline \end{array}$$

$$\begin{array}{r} 110001_2 \\ - 11000_2 \\ \hline \end{array}$$

$$\begin{array}{r} 10101_2 \\ + 10100_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11101_2 \\ - 10000_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11111_2 \\ + 10001_2 \\ \hline \end{array}$$

$$\begin{array}{r} 10000_2 \\ + 11010_2 \\ \hline \end{array}$$

# Operations with Binary Numbers (B) Answers

Calculate each answer.

$$\begin{array}{r} 11001_2 \\ \times 10_2 \\ \hline 110010_2 \end{array}$$

$$\begin{array}{r} 11111_2 \\ \times 100_2 \\ \hline 1111100_2 \end{array}$$

$$\begin{array}{r} 11111_2 \\ \times 101_2 \\ \hline 10011011_2 \end{array}$$

$$\begin{array}{r} 1101_2 \\ + 10111_2 \\ \hline 100100_2 \end{array}$$

$$\begin{array}{r} 10011_2 \\ + 10100_2 \\ \hline 100111_2 \end{array}$$

$$\begin{array}{r} 1111_2 \\ \times 11_2 \\ \hline 101101_2 \end{array}$$

$$\begin{array}{r} 111101_2 \\ - 11111_2 \\ \hline 11110_2 \end{array}$$

$$\begin{array}{r} 11010_2 \\ - 1001_2 \\ \hline 10001_2 \end{array}$$

$$\begin{array}{r} 1011_2 \\ \times 100_2 \\ \hline 101100_2 \end{array}$$

$$\begin{array}{r} 100011_2 \\ - 1010_2 \\ \hline 11001_2 \end{array}$$

$$\begin{array}{r} 101001_2 \\ - 11001_2 \\ \hline 10000_2 \end{array}$$

$$\begin{array}{r} 101100_2 \\ - 10101_2 \\ \hline 10111_2 \end{array}$$

$$\begin{array}{r} 101101_2 \\ - 11101_2 \\ \hline 10000_2 \end{array}$$

$$\begin{array}{r} 100_2 \\ \times 11_2 \\ \hline 1100_2 \end{array}$$

$$\begin{array}{r} 11111_2 \\ + 1100_2 \\ \hline 101011_2 \end{array}$$

$$\begin{array}{r} 110001_2 \\ - 11000_2 \\ \hline 11001_2 \end{array}$$

$$\begin{array}{r} 10101_2 \\ + 10100_2 \\ \hline 101001_2 \end{array}$$

$$\begin{array}{r} 11101_2 \\ - 10000_2 \\ \hline 1101_2 \end{array}$$

$$\begin{array}{r} 11111_2 \\ + 10001_2 \\ \hline 110000_2 \end{array}$$

$$\begin{array}{r} 10000_2 \\ + 11010_2 \\ \hline 101010_2 \end{array}$$

# Operations with Binary Numbers (C)

Calculate each answer.

$$\begin{array}{r} 11011_2 \\ + 1011_2 \\ \hline \end{array}$$

$$\begin{array}{r} 1011_2 \\ \times 111_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11011_2 \\ + 11100_2 \\ \hline \end{array}$$

$$\begin{array}{r} 1010_2 \\ + 11111_2 \\ \hline \end{array}$$

$$10_2 \overline{)101010_2}$$

$$\begin{array}{r} 11010_2 \\ - 100_2 \\ \hline \end{array}$$

$$\begin{array}{r} 101010_2 \\ - 11001_2 \\ \hline \end{array}$$

$$\begin{array}{r} 1110_2 \\ + 1111_2 \\ \hline \end{array}$$

$$\begin{array}{r} 10011_2 \\ + 11111_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11100_2 \\ + 10000_2 \\ \hline \end{array}$$

$$\begin{array}{r} 10111_2 \\ + 1010_2 \\ \hline \end{array}$$

$$111_2 \overline{)10011010_2}$$

$$11_2 \overline{)110000_2}$$

$$\begin{array}{r} 1110_2 \\ \times 101_2 \\ \hline \end{array}$$

$$\begin{array}{r} 10001_2 \\ + 11010_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11110_2 \\ \times 10_2 \\ \hline \end{array}$$

$$\begin{array}{r} 1000_2 \\ + 11110_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11001_2 \\ + 110_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11010_2 \\ + 11111_2 \\ \hline \end{array}$$

$$10_2 \overline{)100000_2}$$

# Operations with Binary Numbers (C) Answers

Calculate each answer.

$$\begin{array}{r} 11011_2 \\ + 1011_2 \\ \hline 100110_2 \end{array}$$

$$\begin{array}{r} 1011_2 \\ \times 111_2 \\ \hline 1001101_2 \end{array}$$

$$\begin{array}{r} 11011_2 \\ + 11100_2 \\ \hline 110111_2 \end{array}$$

$$\begin{array}{r} 1010_2 \\ + 11111_2 \\ \hline 101001_2 \end{array}$$

$$\begin{array}{r} 10101_2 \\ 10_2 \overline{)101010_2} \end{array}$$

$$\begin{array}{r} 11010_2 \\ - 100_2 \\ \hline 10110_2 \end{array}$$

$$\begin{array}{r} 101010_2 \\ - 11001_2 \\ \hline 10001_2 \end{array}$$

$$\begin{array}{r} 1110_2 \\ + 1111_2 \\ \hline 11101_2 \end{array}$$

$$\begin{array}{r} 10011_2 \\ + 11111_2 \\ \hline 110010_2 \end{array}$$

$$\begin{array}{r} 11100_2 \\ + 10000_2 \\ \hline 101100_2 \end{array}$$

$$\begin{array}{r} 10111_2 \\ + 1010_2 \\ \hline 100001_2 \end{array}$$

$$\begin{array}{r} 10110_2 \\ 111_2 \overline{)10011010_2} \end{array}$$

$$\begin{array}{r} 10000_2 \\ 11_2 \overline{)110000_2} \end{array}$$

$$\begin{array}{r} 1110_2 \\ \times 101_2 \\ \hline 1000110_2 \end{array}$$

$$\begin{array}{r} 10001_2 \\ + 11010_2 \\ \hline 101011_2 \end{array}$$

$$\begin{array}{r} 11110_2 \\ \times 10_2 \\ \hline 111100_2 \end{array}$$

$$\begin{array}{r} 1000_2 \\ + 11110_2 \\ \hline 100110_2 \end{array}$$

$$\begin{array}{r} 11001_2 \\ + 110_2 \\ \hline 11111_2 \end{array}$$

$$\begin{array}{r} 11010_2 \\ + 11111_2 \\ \hline 111001_2 \end{array}$$

$$\begin{array}{r} 10000_2 \\ 10_2 \overline{)100000_2} \end{array}$$

# Operations with Binary Numbers (D)

Calculate each answer.

$$\begin{array}{r} 111_2 \overline{)111100_2} \\ \hline \end{array}$$

$$\begin{array}{r} 1001_2 \\ - 100_2 \\ \hline \end{array}$$

$$\begin{array}{r} 111_2 \overline{)11010010_2} \\ \hline \end{array}$$

$$\begin{array}{r} 111_2 \\ \times 11_2 \\ \hline \end{array}$$

$$\begin{array}{r} 100_2 \\ \times 101_2 \\ \hline \end{array}$$

$$\begin{array}{r} 110_2 \overline{)1010100_2} \\ \hline \end{array}$$

$$\begin{array}{r} 1010_2 \\ \times 11_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11111_2 \\ - 11011_2 \\ \hline \end{array}$$

$$\begin{array}{r} 10011_2 \\ \times 111_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11110_2 \\ - 1011_2 \\ \hline \end{array}$$

$$\begin{array}{r} 10011_2 \\ \times 110_2 \\ \hline \end{array}$$

$$\begin{array}{r} 1001_2 \\ + 100_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11110_2 \\ \times 100_2 \\ \hline \end{array}$$

$$\begin{array}{r} 1000_2 \\ \times 11_2 \\ \hline \end{array}$$

$$\begin{array}{r} 100_2 \overline{)1101100_2} \\ \hline \end{array}$$

$$\begin{array}{r} 10_2 \overline{)111110_2} \\ \hline \end{array}$$

$$\begin{array}{r} 10011_2 \\ \times 110_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11011_2 \\ \times 10_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11111_2 \\ - 1110_2 \\ \hline \end{array}$$

$$\begin{array}{r} 100100_2 \\ - 11111_2 \\ \hline \end{array}$$

# Operations with Binary Numbers (D) Answers

Calculate each answer.

$$\begin{array}{r} 100_2 \\ 111_2 \overline{)111100_2} \end{array}$$

$$\begin{array}{r} 1001_2 \\ - 100_2 \\ \hline 101_2 \end{array}$$

$$\begin{array}{r} 11110_2 \\ 111_2 \overline{)11010010_2} \end{array}$$

$$\begin{array}{r} 111_2 \\ \times 11_2 \\ \hline 10101_2 \end{array}$$

$$\begin{array}{r} 100_2 \\ \times 101_2 \\ \hline 10100_2 \end{array}$$

$$\begin{array}{r} 1110_2 \\ 110_2 \overline{)1010100_2} \end{array}$$

$$\begin{array}{r} 1010_2 \\ \times 11_2 \\ \hline 11110_2 \end{array}$$

$$\begin{array}{r} 11111_2 \\ - 11011_2 \\ \hline 100_2 \end{array}$$

$$\begin{array}{r} 10011_2 \\ \times 111_2 \\ \hline 10000101_2 \end{array}$$

$$\begin{array}{r} 11110_2 \\ - 1011_2 \\ \hline 10011_2 \end{array}$$

$$\begin{array}{r} 10011_2 \\ \times 110_2 \\ \hline 1110010_2 \end{array}$$

$$\begin{array}{r} 1001_2 \\ + 100_2 \\ \hline 1101_2 \end{array}$$

$$\begin{array}{r} 11110_2 \\ \times 100_2 \\ \hline 1111000_2 \end{array}$$

$$\begin{array}{r} 1000_2 \\ \times 11_2 \\ \hline 11000_2 \end{array}$$

$$\begin{array}{r} 11011_2 \\ 100_2 \overline{)1101100_2} \end{array}$$

$$\begin{array}{r} 1111_2 \\ 10_2 \overline{)11110_2} \end{array}$$

$$\begin{array}{r} 10011_2 \\ \times 110_2 \\ \hline 1110010_2 \end{array}$$

$$\begin{array}{r} 11011_2 \\ \times 10_2 \\ \hline 110110_2 \end{array}$$

$$\begin{array}{r} 11111_2 \\ - 1110_2 \\ \hline 10001_2 \end{array}$$

$$\begin{array}{r} 100100_2 \\ - 11111_2 \\ \hline 101_2 \end{array}$$



# Operations with Binary Numbers (E)

Calculate each answer.

$$101_2 \overline{)10010001_2}$$

$$\begin{array}{r} 10010_2 \\ \times 11_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11111_2 \\ \times 111_2 \\ \hline \end{array}$$

$$\begin{array}{r} 1001_2 \\ + 11001_2 \\ \hline \end{array}$$

$$\begin{array}{r} 10111_2 \\ \times 100_2 \\ \hline \end{array}$$

$$\begin{array}{r} 101101_2 \\ - 11001_2 \\ \hline \end{array}$$

$$\begin{array}{r} 1111_2 \\ \times 100_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11101_2 \\ + 1010_2 \\ \hline \end{array}$$

$$\begin{array}{r} 101111_2 \\ - 11000_2 \\ \hline \end{array}$$

$$10_2 \overline{)10100_2}$$

$$\begin{array}{r} 110111_2 \\ - 11001_2 \\ \hline \end{array}$$

$$111_2 \overline{)11011001_2}$$

$$111_2 \overline{)1110111_2}$$

$$\begin{array}{r} 101_2 \\ + 100_2 \\ \hline \end{array}$$

$$\begin{array}{r} 1011_2 \\ - 110_2 \\ \hline \end{array}$$

$$11_2 \overline{)11000_2}$$

$$\begin{array}{r} 11001_2 \\ - 110_2 \\ \hline \end{array}$$

$$\begin{array}{r} 1110_2 \\ \times 101_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11100_2 \\ + 110_2 \\ \hline \end{array}$$

$$110_2 \overline{)1000010_2}$$

# Operations with Binary Numbers (E) Answers

Calculate each answer.

$$\begin{array}{r} 11101_2 \\ 101_2 \overline{)10010001_2} \end{array}$$

$$\begin{array}{r} 10010_2 \\ \times 11_2 \\ \hline 110110_2 \end{array}$$

$$\begin{array}{r} 11111_2 \\ \times 111_2 \\ \hline 11011001_2 \end{array}$$

$$\begin{array}{r} 1001_2 \\ + 11001_2 \\ \hline 100010_2 \end{array}$$

$$\begin{array}{r} 10111_2 \\ \times 100_2 \\ \hline 1011100_2 \end{array}$$

$$\begin{array}{r} 101101_2 \\ - 11001_2 \\ \hline 10100_2 \end{array}$$

$$\begin{array}{r} 1111_2 \\ \times 100_2 \\ \hline 111100_2 \end{array}$$

$$\begin{array}{r} 11101_2 \\ + 1010_2 \\ \hline 100111_2 \end{array}$$

$$\begin{array}{r} 101111_2 \\ - 11000_2 \\ \hline 10111_2 \end{array}$$

$$\begin{array}{r} 1010_2 \\ 10_2 \overline{)10100_2} \end{array}$$

$$\begin{array}{r} 110111_2 \\ - 11001_2 \\ \hline 11110_2 \end{array}$$

$$\begin{array}{r} 11111_2 \\ 111_2 \overline{)11011001_2} \end{array}$$

$$\begin{array}{r} 10001_2 \\ 111_2 \overline{)1110111_2} \end{array}$$

$$\begin{array}{r} 101_2 \\ + 100_2 \\ \hline 1001_2 \end{array}$$

$$\begin{array}{r} 1011_2 \\ - 110_2 \\ \hline 101_2 \end{array}$$

$$\begin{array}{r} 1000_2 \\ 11_2 \overline{)11000_2} \end{array}$$

$$\begin{array}{r} 11001_2 \\ - 110_2 \\ \hline 10011_2 \end{array}$$

$$\begin{array}{r} 1110_2 \\ \times 101_2 \\ \hline 1000110_2 \end{array}$$

$$\begin{array}{r} 11100_2 \\ + 110_2 \\ \hline 100010_2 \end{array}$$

$$\begin{array}{r} 1011_2 \\ 110_2 \overline{)1000010_2} \end{array}$$

# Operations with Binary Numbers (F)

Calculate each answer.

$$\begin{array}{r} 110100_2 \\ - 11000_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11001_2 \\ + 10010_2 \\ \hline \end{array}$$

$$\begin{array}{r} 110_2 \\ + 1101_2 \\ \hline \end{array}$$

$$\begin{array}{r} 1011_2 \\ + 10001_2 \\ \hline \end{array}$$

$$\begin{array}{r} 10101_2 \\ + 10101_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11110_2 \\ - 10101_2 \\ \hline \end{array}$$

$$\begin{array}{r} 101010_2 \\ - 11010_2 \\ \hline \end{array}$$

$$\begin{array}{r} 111_2 \\ + 1111_2 \\ \hline \end{array}$$

$$\begin{array}{r} 10110_2 \\ \times 100_2 \\ \hline \end{array}$$

$$\begin{array}{r} 101010_2 \\ - 10100_2 \\ \hline \end{array}$$

$$\begin{array}{r} 111_2 \\ \times 110_2 \\ \hline \end{array}$$

$$\begin{array}{r} 1010_2 \\ \times 10_2 \\ \hline \end{array}$$

$$\begin{array}{r} 1010_2 \\ \times 100_2 \\ \hline \end{array}$$

$$\begin{array}{r} 100011_2 \\ - 11110_2 \\ \hline \end{array}$$

$$111_2 \overline{)11001011_2}$$

$$\begin{array}{r} 11001_2 \\ \times 10_2 \\ \hline \end{array}$$

$$11_2 \overline{)101101_2}$$

$$101_2 \overline{)10000111_2}$$

$$111_2 \overline{)10101000_2}$$

$$\begin{array}{r} 100_2 \\ \times 101_2 \\ \hline \end{array}$$

# Operations with Binary Numbers (F) Answers

Calculate each answer.

$$\begin{array}{r} 110100_2 \\ - 11000_2 \\ \hline 11100_2 \end{array}$$

$$\begin{array}{r} 11001_2 \\ + 10010_2 \\ \hline 101011_2 \end{array}$$

$$\begin{array}{r} 110_2 \\ + 1101_2 \\ \hline 10011_2 \end{array}$$

$$\begin{array}{r} 1011_2 \\ + 10001_2 \\ \hline 11100_2 \end{array}$$

$$\begin{array}{r} 10101_2 \\ + 10101_2 \\ \hline 101010_2 \end{array}$$

$$\begin{array}{r} 11110_2 \\ - 10101_2 \\ \hline 1001_2 \end{array}$$

$$\begin{array}{r} 101010_2 \\ - 11010_2 \\ \hline 10000_2 \end{array}$$

$$\begin{array}{r} 111_2 \\ + 1111_2 \\ \hline 10110_2 \end{array}$$

$$\begin{array}{r} 10110_2 \\ \times 100_2 \\ \hline 1011000_2 \end{array}$$

$$\begin{array}{r} 101010_2 \\ - 10100_2 \\ \hline 10110_2 \end{array}$$

$$\begin{array}{r} 111_2 \\ \times 110_2 \\ \hline 101010_2 \end{array}$$

$$\begin{array}{r} 1010_2 \\ \times 10_2 \\ \hline 10100_2 \end{array}$$

$$\begin{array}{r} 1010_2 \\ \times 100_2 \\ \hline 101000_2 \end{array}$$

$$\begin{array}{r} 100011_2 \\ - 11110_2 \\ \hline 101_2 \end{array}$$

$$\begin{array}{r} 11101_2 \\ 111_2 \overline{)11001011_2} \end{array}$$

$$\begin{array}{r} 11001_2 \\ \times 10_2 \\ \hline 110010_2 \end{array}$$

$$\begin{array}{r} 1111_2 \\ 11_2 \overline{)101101_2} \end{array}$$

$$\begin{array}{r} 11011_2 \\ 101_2 \overline{)10000111_2} \end{array}$$

$$\begin{array}{r} 11000_2 \\ 111_2 \overline{)10101000_2} \end{array}$$

$$\begin{array}{r} 100_2 \\ \times 101_2 \\ \hline 10100_2 \end{array}$$

# Operations with Binary Numbers (G)

Calculate each answer.

$$\begin{array}{r} 1000_2 \\ \times 111_2 \\ \hline \end{array}$$

$$\begin{array}{r} 111_2 \\ \times 10_2 \\ \hline \end{array}$$

$$110_2 \overline{)1111100_2}$$

$$\begin{array}{r} 100000_2 \\ - 10011_2 \\ \hline \end{array}$$

$$\begin{array}{r} 100110_2 \\ - 11011_2 \\ \hline \end{array}$$

$$\begin{array}{r} 1000_2 \\ + 11110_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11111_2 \\ \times 100_2 \\ \hline \end{array}$$

$$\begin{array}{r} 10100_2 \\ + 111_2 \\ \hline \end{array}$$

$$\begin{array}{r} 110_2 \\ \times 101_2 \\ \hline \end{array}$$

$$\begin{array}{r} 1110_2 \\ \times 100_2 \\ \hline \end{array}$$

$$\begin{array}{r} 10111_2 \\ + 110_2 \\ \hline \end{array}$$

$$110_2 \overline{)110110_2}$$

$$\begin{array}{r} 100000_2 \\ - 1101_2 \\ \hline \end{array}$$

$$\begin{array}{r} 10000_2 \\ + 1100_2 \\ \hline \end{array}$$

$$\begin{array}{r} 1111_2 \\ \times 10_2 \\ \hline \end{array}$$

$$\begin{array}{r} 111_2 \\ + 11011_2 \\ \hline \end{array}$$

$$\begin{array}{r} 100110_2 \\ - 10101_2 \\ \hline \end{array}$$

$$\begin{array}{r} 1111_2 \\ \times 110_2 \\ \hline \end{array}$$

$$\begin{array}{r} 1101_2 \\ \times 10_2 \\ \hline \end{array}$$

$$100_2 \overline{)100100_2}$$

# Operations with Binary Numbers (G) Answers

Calculate each answer.

$\begin{array}{r} 1000_2 \\ \times 111_2 \\ \hline 111000_2 \end{array}$	$\begin{array}{r} 111_2 \\ \times 10_2 \\ \hline 1110_2 \end{array}$	$\begin{array}{r} 1010_2 \\ 110_2 \overline{)111100_2} \end{array}$	$\begin{array}{r} 100000_2 \\ - 10011_2 \\ \hline 1101_2 \end{array}$
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$\begin{array}{r} 100110_2 \\ - 11011_2 \\ \hline 1011_2 \end{array}$	$\begin{array}{r} 1000_2 \\ + 11110_2 \\ \hline 100110_2 \end{array}$	$\begin{array}{r} 11111_2 \\ \times 100_2 \\ \hline 1111100_2 \end{array}$	$\begin{array}{r} 10100_2 \\ + 111_2 \\ \hline 11011_2 \end{array}$
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$\begin{array}{r} 110_2 \\ \times 101_2 \\ \hline 11110_2 \end{array}$	$\begin{array}{r} 1110_2 \\ \times 100_2 \\ \hline 111000_2 \end{array}$	$\begin{array}{r} 10111_2 \\ + 110_2 \\ \hline 11101_2 \end{array}$	$\begin{array}{r} 1001_2 \\ 110_2 \overline{)110110_2} \end{array}$
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$\begin{array}{r} 100000_2 \\ - 1101_2 \\ \hline 10011_2 \end{array}$	$\begin{array}{r} 10000_2 \\ + 1100_2 \\ \hline 11100_2 \end{array}$	$\begin{array}{r} 1111_2 \\ \times 10_2 \\ \hline 11110_2 \end{array}$	$\begin{array}{r} 111_2 \\ + 11011_2 \\ \hline 100010_2 \end{array}$
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$\begin{array}{r} 100110_2 \\ - 10101_2 \\ \hline 10001_2 \end{array}$	$\begin{array}{r} 1111_2 \\ \times 110_2 \\ \hline 1011010_2 \end{array}$	$\begin{array}{r} 1101_2 \\ \times 10_2 \\ \hline 11010_2 \end{array}$	$\begin{array}{r} 1001_2 \\ 100_2 \overline{)100100_2} \end{array}$
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# Operations with Binary Numbers (H)

Calculate each answer.

$$100_2 \overline{)1101100_2}$$

$$\begin{array}{r} 101_2 \\ + 11000_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11111_2 \\ + 11100_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11110_2 \\ - 10011_2 \\ \hline \end{array}$$

$$\begin{array}{r} 101000_2 \\ - 10101_2 \\ \hline \end{array}$$

$$100_2 \overline{)110100_2}$$

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

$$\begin{array}{r} 111_2 \\ + 10000_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11010_2 \\ + 1101_2 \\ \hline \end{array}$$

$$110_2 \overline{)10101000_2}$$

$$\begin{array}{r} 1110_2 \\ + 101_2 \\ \hline \end{array}$$

$$11_2 \overline{)1010111_2}$$

$$110_2 \overline{)1001110_2}$$

$$\begin{array}{r} 1011_2 \\ + 10101_2 \\ \hline \end{array}$$

$$\begin{array}{r} 10101_2 \\ \times 110_2 \\ \hline \end{array}$$

$$\begin{array}{r} 110_2 \\ \times 100_2 \\ \hline \end{array}$$

$$100_2 \overline{)1000000_2}$$

$$111_2 \overline{)111111_2}$$

$$\begin{array}{r} 10010_2 \\ \times 111_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11101_2 \\ - 1100_2 \\ \hline \end{array}$$

# Operations with Binary Numbers (H) Answers

Calculate each answer.

$$\begin{array}{r} 11011_2 \\ 100_2 \overline{)1101100_2} \end{array}$$

$$\begin{array}{r} 101_2 \\ + 11000_2 \\ \hline 11101_2 \end{array}$$

$$\begin{array}{r} 11111_2 \\ + 11100_2 \\ \hline 111011_2 \end{array}$$

$$\begin{array}{r} 11110_2 \\ - 10011_2 \\ \hline 1011_2 \end{array}$$

$$\begin{array}{r} 101000_2 \\ - 10101_2 \\ \hline 10011_2 \end{array}$$

$$\begin{array}{r} 1101_2 \\ 100_2 \overline{)110100_2} \end{array}$$

$$\begin{array}{r} 11100_2 \\ + 10111_2 \\ \hline 110011_2 \end{array}$$

$$\begin{array}{r} 111_2 \\ + 10000_2 \\ \hline 10111_2 \end{array}$$

$$\begin{array}{r} 11010_2 \\ + 1101_2 \\ \hline 100111_2 \end{array}$$

$$\begin{array}{r} 11100_2 \\ 110_2 \overline{)10101000_2} \end{array}$$

$$\begin{array}{r} 1110_2 \\ + 101_2 \\ \hline 10011_2 \end{array}$$

$$\begin{array}{r} 11101_2 \\ 11_2 \overline{)1010111_2} \end{array}$$

$$\begin{array}{r} 1101_2 \\ 110_2 \overline{)1001110_2} \end{array}$$

$$\begin{array}{r} 1011_2 \\ + 10101_2 \\ \hline 100000_2 \end{array}$$

$$\begin{array}{r} 10101_2 \\ \times 110_2 \\ \hline 1111110_2 \end{array}$$

$$\begin{array}{r} 110_2 \\ \times 100_2 \\ \hline 11000_2 \end{array}$$

$$\begin{array}{r} 10000_2 \\ 100_2 \overline{)1000000_2} \end{array}$$

$$\begin{array}{r} 1001_2 \\ 111_2 \overline{)111111_2} \end{array}$$

$$\begin{array}{r} 10010_2 \\ \times 111_2 \\ \hline 1111110_2 \end{array}$$

$$\begin{array}{r} 11101_2 \\ - 1100_2 \\ \hline 10001_2 \end{array}$$



# Operations with Binary Numbers (I)

Calculate each answer.

$$101_2 \overline{)10011011_2}$$

$$\begin{array}{r} 11000_2 \\ - 1111_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11001_2 \\ - 1111_2 \\ \hline \end{array}$$

$$10_2 \overline{)110100_2}$$

$$100_2 \overline{)1100000_2}$$

$$\begin{array}{r} 10110_2 \\ \times 10_2 \\ \hline \end{array}$$

$$100_2 \overline{)1111100_2}$$

$$\begin{array}{r} 10110_2 \\ - 1101_2 \\ \hline \end{array}$$

$$11_2 \overline{)1011101_2}$$

$$\begin{array}{r} 11101_2 \\ + 1011_2 \\ \hline \end{array}$$

$$100_2 \overline{)110000_2}$$

$$\begin{array}{r} 101_2 \\ \times 101_2 \\ \hline \end{array}$$

$$\begin{array}{r} 101110_2 \\ - 11001_2 \\ \hline \end{array}$$

$$\begin{array}{r} 101_2 \\ \times 100_2 \\ \hline \end{array}$$

$$\begin{array}{r} 10011_2 \\ - 111_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11011_2 \\ - 1010_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11101_2 \\ + 10101_2 \\ \hline \end{array}$$

$$\begin{array}{r} 1011_2 \\ \times 101_2 \\ \hline \end{array}$$

$$\begin{array}{r} 101_2 \\ + 11001_2 \\ \hline \end{array}$$

$$\begin{array}{r} 100101_2 \\ - 11001_2 \\ \hline \end{array}$$

# Operations with Binary Numbers (I) Answers

Calculate each answer.

$$\begin{array}{r} 11111_2 \\ 101_2 \overline{)10011011_2} \end{array}$$

$$\begin{array}{r} 11000_2 \\ - 1111_2 \\ \hline 1001_2 \end{array}$$

$$\begin{array}{r} 11001_2 \\ - 1111_2 \\ \hline 1010_2 \end{array}$$

$$\begin{array}{r} 11010_2 \\ 10_2 \overline{)110100_2} \end{array}$$

$$\begin{array}{r} 11000_2 \\ 100_2 \overline{)1100000_2} \end{array}$$

$$\begin{array}{r} 10110_2 \\ \times 10_2 \\ \hline 101100_2 \end{array}$$

$$\begin{array}{r} 11111_2 \\ 100_2 \overline{)1111100_2} \end{array}$$

$$\begin{array}{r} 10110_2 \\ - 1101_2 \\ \hline 1001_2 \end{array}$$

$$\begin{array}{r} 11111_2 \\ 11_2 \overline{)1011101_2} \end{array}$$

$$\begin{array}{r} 11101_2 \\ + 1011_2 \\ \hline 101000_2 \end{array}$$

$$\begin{array}{r} 1100_2 \\ 100_2 \overline{)110000_2} \end{array}$$

$$\begin{array}{r} 101_2 \\ \times 101_2 \\ \hline 11001_2 \end{array}$$

$$\begin{array}{r} 101110_2 \\ - 11001_2 \\ \hline 10101_2 \end{array}$$

$$\begin{array}{r} 101_2 \\ \times 100_2 \\ \hline 10100_2 \end{array}$$

$$\begin{array}{r} 10011_2 \\ - 111_2 \\ \hline 1100_2 \end{array}$$

$$\begin{array}{r} 11011_2 \\ - 1010_2 \\ \hline 10001_2 \end{array}$$

$$\begin{array}{r} 11101_2 \\ + 10101_2 \\ \hline 110010_2 \end{array}$$

$$\begin{array}{r} 1011_2 \\ \times 101_2 \\ \hline 110111_2 \end{array}$$

$$\begin{array}{r} 101_2 \\ + 11001_2 \\ \hline 11110_2 \end{array}$$

$$\begin{array}{r} 100101_2 \\ - 11001_2 \\ \hline 1100_2 \end{array}$$

# Operations with Binary Numbers (J)

Calculate each answer.

$$\begin{array}{r} 10100_2 \\ - 1101_2 \\ \hline \end{array}$$

$$\begin{array}{r} 1101_2 \\ + 11010_2 \\ \hline \end{array}$$

$$111_2 \overline{)10111101_2}$$

$$\begin{array}{r} 110011_2 \\ - 10110_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11001_2 \\ + 10001_2 \\ \hline \end{array}$$

$$\begin{array}{r} 1001_2 \\ + 11000_2 \\ \hline \end{array}$$

$$\begin{array}{r} 10100_2 \\ + 11011_2 \\ \hline \end{array}$$

$$11_2 \overline{)1010100_2}$$

$$\begin{array}{r} 10100_2 \\ \times 100_2 \\ \hline \end{array}$$

$$\begin{array}{r} 100011_2 \\ - 11101_2 \\ \hline \end{array}$$

$$\begin{array}{r} 10111_2 \\ + 1110_2 \\ \hline \end{array}$$

$$\begin{array}{r} 10110_2 \\ \times 111_2 \\ \hline \end{array}$$

$$\begin{array}{r} 100011_2 \\ - 101_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11000_2 \\ \times 101_2 \\ \hline \end{array}$$

$$\begin{array}{r} 110110_2 \\ - 11000_2 \\ \hline \end{array}$$

$$\begin{array}{r} 1110_2 \\ + 10000_2 \\ \hline \end{array}$$

$$\begin{array}{r} 11010_2 \\ \times 10_2 \\ \hline \end{array}$$

$$\begin{array}{r} 10100_2 \\ - 1101_2 \\ \hline \end{array}$$

$$101_2 \overline{)10000010_2}$$

$$\begin{array}{r} 101_2 \\ \times 111_2 \\ \hline \end{array}$$

# Operations with Binary Numbers (J) Answers

Calculate each answer.

$$\begin{array}{r} 10100_2 \\ - 1101_2 \\ \hline 111_2 \end{array}$$

$$\begin{array}{r} 1101_2 \\ + 11010_2 \\ \hline 100111_2 \end{array}$$

$$\begin{array}{r} 11011_2 \\ 111_2 \overline{)10111101_2} \end{array}$$

$$\begin{array}{r} 110011_2 \\ - 10110_2 \\ \hline 11101_2 \end{array}$$

$$\begin{array}{r} 11001_2 \\ + 10001_2 \\ \hline 101010_2 \end{array}$$

$$\begin{array}{r} 1001_2 \\ + 11000_2 \\ \hline 100001_2 \end{array}$$

$$\begin{array}{r} 10100_2 \\ + 11011_2 \\ \hline 101111_2 \end{array}$$

$$\begin{array}{r} 11100_2 \\ 11_2 \overline{)1010100_2} \end{array}$$

$$\begin{array}{r} 10100_2 \\ \times 100_2 \\ \hline 1010000_2 \end{array}$$

$$\begin{array}{r} 100011_2 \\ - 11101_2 \\ \hline 110_2 \end{array}$$

$$\begin{array}{r} 10111_2 \\ + 1110_2 \\ \hline 100101_2 \end{array}$$

$$\begin{array}{r} 10110_2 \\ \times 111_2 \\ \hline 10011010_2 \end{array}$$

$$\begin{array}{r} 100011_2 \\ - 101_2 \\ \hline 11110_2 \end{array}$$

$$\begin{array}{r} 11000_2 \\ \times 101_2 \\ \hline 1111000_2 \end{array}$$

$$\begin{array}{r} 110110_2 \\ - 11000_2 \\ \hline 11110_2 \end{array}$$

$$\begin{array}{r} 1110_2 \\ + 10000_2 \\ \hline 11110_2 \end{array}$$

$$\begin{array}{r} 11010_2 \\ \times 10_2 \\ \hline 110100_2 \end{array}$$

$$\begin{array}{r} 10100_2 \\ - 1101_2 \\ \hline 111_2 \end{array}$$

$$\begin{array}{r} 11010_2 \\ 101_2 \overline{)10000010_2} \end{array}$$

$$\begin{array}{r} 101_2 \\ \times 111_2 \\ \hline 100011_2 \end{array}$$