

# Subtracting Quaternary Numbers (A)

Calculate each difference.

$$\begin{array}{r} 10020_4 \\ - 1313_4 \\ \hline \end{array}$$

$$\begin{array}{r} 3322_4 \\ - 1022_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11212_4 \\ - 1332_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10132_4 \\ - 3002_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11321_4 \\ - 2121_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11102_4 \\ - 3320_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10033_4 \\ - 1311_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11220_4 \\ - 2310_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11332_4 \\ - 2032_4 \\ \hline \end{array}$$

$$\begin{array}{r} 3033_4 \\ - 2033_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10202_4 \\ - 3033_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11121_4 \\ - 3013_4 \\ \hline \end{array}$$

$$\begin{array}{r} 3212_4 \\ - 2012_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11101_4 \\ - 3032_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10302_4 \\ - 2333_4 \\ \hline \end{array}$$

$$\begin{array}{r} 2233_4 \\ - 1032_4 \\ \hline \end{array}$$

$$\begin{array}{r} 12302_4 \\ - 2323_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11011_4 \\ - 3200_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10112_4 \\ - 1320_4 \\ \hline \end{array}$$

$$\begin{array}{r} 12223_4 \\ - 3001_4 \\ \hline \end{array}$$

# Subtracting Quaternary Numbers (A) Answers

Calculate each difference.

$$\begin{array}{r} 10020_4 \\ - 1313_4 \\ \hline 2101_4 \end{array}$$

$$\begin{array}{r} 3322_4 \\ - 1022_4 \\ \hline 2300_4 \end{array}$$

$$\begin{array}{r} 11212_4 \\ - 1332_4 \\ \hline 3220_4 \end{array}$$

$$\begin{array}{r} 10132_4 \\ - 3002_4 \\ \hline 1130_4 \end{array}$$

$$\begin{array}{r} 11321_4 \\ - 2121_4 \\ \hline 3200_4 \end{array}$$

$$\begin{array}{r} 11102_4 \\ - 3320_4 \\ \hline 1122_4 \end{array}$$

$$\begin{array}{r} 10033_4 \\ - 1311_4 \\ \hline 2122_4 \end{array}$$

$$\begin{array}{r} 11220_4 \\ - 2310_4 \\ \hline 2310_4 \end{array}$$

$$\begin{array}{r} 11332_4 \\ - 2032_4 \\ \hline 3300_4 \end{array}$$

$$\begin{array}{r} 3033_4 \\ - 2033_4 \\ \hline 1000_4 \end{array}$$

$$\begin{array}{r} 10202_4 \\ - 3033_4 \\ \hline 1103_4 \end{array}$$

$$\begin{array}{r} 11121_4 \\ - 3013_4 \\ \hline 2102_4 \end{array}$$

$$\begin{array}{r} 3212_4 \\ - 2012_4 \\ \hline 1200_4 \end{array}$$

$$\begin{array}{r} 11101_4 \\ - 3032_4 \\ \hline 2003_4 \end{array}$$

$$\begin{array}{r} 10302_4 \\ - 2333_4 \\ \hline 1303_4 \end{array}$$

$$\begin{array}{r} 2233_4 \\ - 1032_4 \\ \hline 1201_4 \end{array}$$

$$\begin{array}{r} 12302_4 \\ - 2323_4 \\ \hline 3313_4 \end{array}$$

$$\begin{array}{r} 11011_4 \\ - 3200_4 \\ \hline 1211_4 \end{array}$$

$$\begin{array}{r} 10112_4 \\ - 1320_4 \\ \hline 2132_4 \end{array}$$

$$\begin{array}{r} 12223_4 \\ - 3001_4 \\ \hline 3222_4 \end{array}$$

## Subtracting Quaternary Numbers (B)

Calculate each difference.

$$\begin{array}{r} 10131_4 \\ - 1233_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11321_4 \\ - 3120_4 \\ \hline \end{array}$$

$$\begin{array}{r} 13211_4 \\ - 3222_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10122_4 \\ - 1021_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10310_4 \\ - 2003_4 \\ \hline \end{array}$$

$$\begin{array}{r} 12211_4 \\ - 3133_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10330_4 \\ - 3323_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11200_4 \\ - 1303_4 \\ \hline \end{array}$$

$$\begin{array}{r} 12113_4 \\ - 2203_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10321_4 \\ - 2331_4 \\ \hline \end{array}$$

$$\begin{array}{r} 3300_4 \\ - 2031_4 \\ \hline \end{array}$$

$$\begin{array}{r} 3023_4 \\ - 1003_4 \\ \hline \end{array}$$

$$\begin{array}{r} 13030_4 \\ - 3330_4 \\ \hline \end{array}$$

$$\begin{array}{r} 3233_4 \\ - 2201_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10210_4 \\ - 2003_4 \\ \hline \end{array}$$

$$\begin{array}{r} 3122_4 \\ - 1020_4 \\ \hline \end{array}$$

$$\begin{array}{r} 3202_4 \\ - 2201_4 \\ \hline \end{array}$$

$$\begin{array}{r} 3210_4 \\ - 1131_4 \\ \hline \end{array}$$

$$\begin{array}{r} 2330_4 \\ - 1323_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10102_4 \\ - 2132_4 \\ \hline \end{array}$$

# Subtracting Quaternary Numbers (B) Answers

Calculate each difference.

$$\begin{array}{r} 10131_4 \\ - 1233_4 \\ \hline 2232_4 \end{array}$$

$$\begin{array}{r} 11321_4 \\ - 3120_4 \\ \hline 2201_4 \end{array}$$

$$\begin{array}{r} 13211_4 \\ - 3222_4 \\ \hline 3323_4 \end{array}$$

$$\begin{array}{r} 10122_4 \\ - 1021_4 \\ \hline 3101_4 \end{array}$$

$$\begin{array}{r} 10310_4 \\ - 2003_4 \\ \hline 2301_4 \end{array}$$

$$\begin{array}{r} 12211_4 \\ - 3133_4 \\ \hline 3012_4 \end{array}$$

$$\begin{array}{r} 10330_4 \\ - 3323_4 \\ \hline 1001_4 \end{array}$$

$$\begin{array}{r} 11200_4 \\ - 1303_4 \\ \hline 3231_4 \end{array}$$

$$\begin{array}{r} 12113_4 \\ - 2203_4 \\ \hline 3310_4 \end{array}$$

$$\begin{array}{r} 10321_4 \\ - 2331_4 \\ \hline 1330_4 \end{array}$$

$$\begin{array}{r} 3300_4 \\ - 2031_4 \\ \hline 1203_4 \end{array}$$

$$\begin{array}{r} 3023_4 \\ - 1003_4 \\ \hline 2020_4 \end{array}$$

$$\begin{array}{r} 13030_4 \\ - 3330_4 \\ \hline 3100_4 \end{array}$$

$$\begin{array}{r} 3233_4 \\ - 2201_4 \\ \hline 1032_4 \end{array}$$

$$\begin{array}{r} 10210_4 \\ - 2003_4 \\ \hline 2201_4 \end{array}$$

$$\begin{array}{r} 3122_4 \\ - 1020_4 \\ \hline 2102_4 \end{array}$$

$$\begin{array}{r} 3202_4 \\ - 2201_4 \\ \hline 1001_4 \end{array}$$

$$\begin{array}{r} 3210_4 \\ - 1131_4 \\ \hline 2013_4 \end{array}$$

$$\begin{array}{r} 2330_4 \\ - 1323_4 \\ \hline 1001_4 \end{array}$$

$$\begin{array}{r} 10102_4 \\ - 2132_4 \\ \hline 1310_4 \end{array}$$

# Subtracting Quaternary Numbers (C)

Calculate each difference.

$$\begin{array}{r} 11010_4 \\ - 3310_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10330_4 \\ - 3213_4 \\ \hline \end{array}$$

$$\begin{array}{r} 13010_4 \\ - 3102_4 \\ \hline \end{array}$$

$$\begin{array}{r} 12223_4 \\ - 3301_4 \\ \hline \end{array}$$

$$\begin{array}{r} 12211_4 \\ - 3311_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11300_4 \\ - 2333_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11213_4 \\ - 2130_4 \\ \hline \end{array}$$

$$\begin{array}{r} 13033_4 \\ - 3221_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11211_4 \\ - 2320_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11030_4 \\ - 3211_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10233_4 \\ - 3021_4 \\ \hline \end{array}$$

$$\begin{array}{r} 2332_4 \\ - 1302_4 \\ \hline \end{array}$$

$$\begin{array}{r} 3023_4 \\ - 1302_4 \\ \hline \end{array}$$

$$\begin{array}{r} 3033_4 \\ - 1103_4 \\ \hline \end{array}$$

$$\begin{array}{r} 3110_4 \\ - 2010_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10022_4 \\ - 1110_4 \\ \hline \end{array}$$

$$\begin{array}{r} 13122_4 \\ - 3133_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10130_4 \\ - 1022_4 \\ \hline \end{array}$$

$$\begin{array}{r} 2333_4 \\ - 1201_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10211_4 \\ - 2312_4 \\ \hline \end{array}$$

# Subtracting Quaternary Numbers (C) Answers

Calculate each difference.

$$\begin{array}{r} 11010_4 \\ - 3310_4 \\ \hline 1100_4 \end{array}$$

$$\begin{array}{r} 10330_4 \\ - 3213_4 \\ \hline 1111_4 \end{array}$$

$$\begin{array}{r} 13010_4 \\ - 3102_4 \\ \hline 3302_4 \end{array}$$

$$\begin{array}{r} 12223_4 \\ - 3301_4 \\ \hline 2322_4 \end{array}$$

$$\begin{array}{r} 12211_4 \\ - 3311_4 \\ \hline 2300_4 \end{array}$$

$$\begin{array}{r} 11300_4 \\ - 2333_4 \\ \hline 2301_4 \end{array}$$

$$\begin{array}{r} 11213_4 \\ - 2130_4 \\ \hline 3023_4 \end{array}$$

$$\begin{array}{r} 13033_4 \\ - 3221_4 \\ \hline 3212_4 \end{array}$$

$$\begin{array}{r} 11211_4 \\ - 2320_4 \\ \hline 2231_4 \end{array}$$

$$\begin{array}{r} 11030_4 \\ - 3211_4 \\ \hline 1213_4 \end{array}$$

$$\begin{array}{r} 10233_4 \\ - 3021_4 \\ \hline 1212_4 \end{array}$$

$$\begin{array}{r} 2332_4 \\ - 1302_4 \\ \hline 1030_4 \end{array}$$

$$\begin{array}{r} 3023_4 \\ - 1302_4 \\ \hline 1121_4 \end{array}$$

$$\begin{array}{r} 3033_4 \\ - 1103_4 \\ \hline 1330_4 \end{array}$$

$$\begin{array}{r} 3110_4 \\ - 2010_4 \\ \hline 1100_4 \end{array}$$

$$\begin{array}{r} 10022_4 \\ - 1110_4 \\ \hline 2312_4 \end{array}$$

$$\begin{array}{r} 13122_4 \\ - 3133_4 \\ \hline 3323_4 \end{array}$$

$$\begin{array}{r} 10130_4 \\ - 1022_4 \\ \hline 3102_4 \end{array}$$

$$\begin{array}{r} 2333_4 \\ - 1201_4 \\ \hline 1132_4 \end{array}$$

$$\begin{array}{r} 10211_4 \\ - 2312_4 \\ \hline 1233_4 \end{array}$$

# Subtracting Quaternary Numbers (D)

Calculate each difference.

$$\begin{array}{r} 3000_4 \\ - 1122_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10320_4 \\ - 1120_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11121_4 \\ - 3012_4 \\ \hline \end{array}$$

$$\begin{array}{r} 3211_4 \\ - 1202_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10331_4 \\ - 1313_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11333_4 \\ - 2003_4 \\ \hline \end{array}$$

$$\begin{array}{r} 13303_4 \\ - 3332_4 \\ \hline \end{array}$$

$$\begin{array}{r} 12133_4 \\ - 2211_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11130_4 \\ - 3332_4 \\ \hline \end{array}$$

$$\begin{array}{r} 3010_4 \\ - 1020_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10331_4 \\ - 2203_4 \\ \hline \end{array}$$

$$\begin{array}{r} 12121_4 \\ - 3131_4 \\ \hline \end{array}$$

$$\begin{array}{r} 2022_4 \\ - 1022_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11001_4 \\ - 1233_4 \\ \hline \end{array}$$

$$\begin{array}{r} 12032_4 \\ - 3311_4 \\ \hline \end{array}$$

$$\begin{array}{r} 12000_4 \\ - 3212_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11030_4 \\ - 2131_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10220_4 \\ - 2133_4 \\ \hline \end{array}$$

$$\begin{array}{r} 12202_4 \\ - 3113_4 \\ \hline \end{array}$$

$$\begin{array}{r} 13012_4 \\ - 3103_4 \\ \hline \end{array}$$

# Subtracting Quaternary Numbers (D) Answers

Calculate each difference.

$$\begin{array}{r} 3000_4 \\ - 1122_4 \\ \hline 1212_4 \end{array}$$

$$\begin{array}{r} 10320_4 \\ - 1120_4 \\ \hline 3200_4 \end{array}$$

$$\begin{array}{r} 11121_4 \\ - 3012_4 \\ \hline 2103_4 \end{array}$$

$$\begin{array}{r} 3211_4 \\ - 1202_4 \\ \hline 2003_4 \end{array}$$

$$\begin{array}{r} 10331_4 \\ - 1313_4 \\ \hline 3012_4 \end{array}$$

$$\begin{array}{r} 11333_4 \\ - 2003_4 \\ \hline 3330_4 \end{array}$$

$$\begin{array}{r} 13303_4 \\ - 3332_4 \\ \hline 3311_4 \end{array}$$

$$\begin{array}{r} 12133_4 \\ - 2211_4 \\ \hline 3322_4 \end{array}$$

$$\begin{array}{r} 11130_4 \\ - 3332_4 \\ \hline 1132_4 \end{array}$$

$$\begin{array}{r} 3010_4 \\ - 1020_4 \\ \hline 1330_4 \end{array}$$

$$\begin{array}{r} 10331_4 \\ - 2203_4 \\ \hline 2122_4 \end{array}$$

$$\begin{array}{r} 12121_4 \\ - 3131_4 \\ \hline 2330_4 \end{array}$$

$$\begin{array}{r} 2022_4 \\ - 1022_4 \\ \hline 1000_4 \end{array}$$

$$\begin{array}{r} 11001_4 \\ - 1233_4 \\ \hline 3102_4 \end{array}$$

$$\begin{array}{r} 12032_4 \\ - 3311_4 \\ \hline 2121_4 \end{array}$$

$$\begin{array}{r} 12000_4 \\ - 3212_4 \\ \hline 2122_4 \end{array}$$

$$\begin{array}{r} 11030_4 \\ - 2131_4 \\ \hline 2233_4 \end{array}$$

$$\begin{array}{r} 10220_4 \\ - 2133_4 \\ \hline 2021_4 \end{array}$$

$$\begin{array}{r} 12202_4 \\ - 3113_4 \\ \hline 3023_4 \end{array}$$

$$\begin{array}{r} 13012_4 \\ - 3103_4 \\ \hline 3303_4 \end{array}$$



# Subtracting Quaternary Numbers (E)

Calculate each difference.

$$\begin{array}{r} 13102_4 \\ - 3303_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10231_4 \\ - 3212_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10231_4 \\ - 1131_4 \\ \hline \end{array}$$

$$\begin{array}{r} 3320_4 \\ - 1122_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11222_4 \\ - 3111_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10133_4 \\ - 2023_4 \\ \hline \end{array}$$

$$\begin{array}{r} 12110_4 \\ - 3201_4 \\ \hline \end{array}$$

$$\begin{array}{r} 12300_4 \\ - 3303_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11232_4 \\ - 2002_4 \\ \hline \end{array}$$

$$\begin{array}{r} 12110_4 \\ - 2132_4 \\ \hline \end{array}$$

$$\begin{array}{r} 12122_4 \\ - 3201_4 \\ \hline \end{array}$$

$$\begin{array}{r} 3312_4 \\ - 2122_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10203_4 \\ - 1003_4 \\ \hline \end{array}$$

$$\begin{array}{r} 13132_4 \\ - 3313_4 \\ \hline \end{array}$$

$$\begin{array}{r} 3123_4 \\ - 1101_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11000_4 \\ - 2221_4 \\ \hline \end{array}$$

$$\begin{array}{r} 13210_4 \\ - 3303_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11301_4 \\ - 1311_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10120_4 \\ - 1013_4 \\ \hline \end{array}$$

$$\begin{array}{r} 12232_4 \\ - 3131_4 \\ \hline \end{array}$$

# Subtracting Quaternary Numbers (E) Answers

Calculate each difference.

$$\begin{array}{r} 13102_4 \\ - 3303_4 \\ \hline 3133_4 \end{array}$$

$$\begin{array}{r} 10231_4 \\ - 3212_4 \\ \hline 1013_4 \end{array}$$

$$\begin{array}{r} 10231_4 \\ - 1131_4 \\ \hline 3100_4 \end{array}$$

$$\begin{array}{r} 3320_4 \\ - 1122_4 \\ \hline 2132_4 \end{array}$$

$$\begin{array}{r} 11222_4 \\ - 3111_4 \\ \hline 2111_4 \end{array}$$

$$\begin{array}{r} 10133_4 \\ - 2023_4 \\ \hline 2110_4 \end{array}$$

$$\begin{array}{r} 12110_4 \\ - 3201_4 \\ \hline 2303_4 \end{array}$$

$$\begin{array}{r} 12300_4 \\ - 3303_4 \\ \hline 2331_4 \end{array}$$

$$\begin{array}{r} 11232_4 \\ - 2002_4 \\ \hline 3230_4 \end{array}$$

$$\begin{array}{r} 12110_4 \\ - 2132_4 \\ \hline 3312_4 \end{array}$$

$$\begin{array}{r} 12122_4 \\ - 3201_4 \\ \hline 2321_4 \end{array}$$

$$\begin{array}{r} 3312_4 \\ - 2122_4 \\ \hline 1130_4 \end{array}$$

$$\begin{array}{r} 10203_4 \\ - 1003_4 \\ \hline 3200_4 \end{array}$$

$$\begin{array}{r} 13132_4 \\ - 3313_4 \\ \hline 3213_4 \end{array}$$

$$\begin{array}{r} 3123_4 \\ - 1101_4 \\ \hline 2022_4 \end{array}$$

$$\begin{array}{r} 11000_4 \\ - 2221_4 \\ \hline 2113_4 \end{array}$$

$$\begin{array}{r} 13210_4 \\ - 3303_4 \\ \hline 3301_4 \end{array}$$

$$\begin{array}{r} 11301_4 \\ - 1311_4 \\ \hline 3330_4 \end{array}$$

$$\begin{array}{r} 10120_4 \\ - 1013_4 \\ \hline 3101_4 \end{array}$$

$$\begin{array}{r} 12232_4 \\ - 3131_4 \\ \hline 3101_4 \end{array}$$

# Subtracting Quaternary Numbers (F)

Calculate each difference.

$$\begin{array}{r} 10303_4 \\ - 2212_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11211_4 \\ - 2320_4 \\ \hline \end{array}$$

$$\begin{array}{r} 13001_4 \\ - 3123_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11102_4 \\ - 2223_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10131_4 \\ - 2120_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11212_4 \\ - 3103_4 \\ \hline \end{array}$$

$$\begin{array}{r} 12000_4 \\ - 2021_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10213_4 \\ - 1203_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11110_4 \\ - 2023_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11231_4 \\ - 1323_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10300_4 \\ - 3203_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11220_4 \\ - 3110_4 \\ \hline \end{array}$$

$$\begin{array}{r} 12110_4 \\ - 2132_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10233_4 \\ - 2121_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11220_4 \\ - 2321_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10003_4 \\ - 2333_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10202_4 \\ - 3023_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11031_4 \\ - 2120_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10302_4 \\ - 2023_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11113_4 \\ - 2312_4 \\ \hline \end{array}$$

# Subtracting Quaternary Numbers (F) Answers

Calculate each difference.

$$\begin{array}{r} 10303_4 \\ - 2212_4 \\ \hline 2031_4 \end{array}$$

$$\begin{array}{r} 11211_4 \\ - 2320_4 \\ \hline 2231_4 \end{array}$$

$$\begin{array}{r} 13001_4 \\ - 3123_4 \\ \hline 3212_4 \end{array}$$

$$\begin{array}{r} 11102_4 \\ - 2223_4 \\ \hline 2213_4 \end{array}$$

$$\begin{array}{r} 10131_4 \\ - 2120_4 \\ \hline 2011_4 \end{array}$$

$$\begin{array}{r} 11212_4 \\ - 3103_4 \\ \hline 2103_4 \end{array}$$

$$\begin{array}{r} 12000_4 \\ - 2021_4 \\ \hline 3313_4 \end{array}$$

$$\begin{array}{r} 10213_4 \\ - 1203_4 \\ \hline 3010_4 \end{array}$$

$$\begin{array}{r} 11110_4 \\ - 2023_4 \\ \hline 3021_4 \end{array}$$

$$\begin{array}{r} 11231_4 \\ - 1323_4 \\ \hline 3302_4 \end{array}$$

$$\begin{array}{r} 10300_4 \\ - 3203_4 \\ \hline 1031_4 \end{array}$$

$$\begin{array}{r} 11220_4 \\ - 3110_4 \\ \hline 2110_4 \end{array}$$

$$\begin{array}{r} 12110_4 \\ - 2132_4 \\ \hline 3312_4 \end{array}$$

$$\begin{array}{r} 10233_4 \\ - 2121_4 \\ \hline 2112_4 \end{array}$$

$$\begin{array}{r} 11220_4 \\ - 2321_4 \\ \hline 2233_4 \end{array}$$

$$\begin{array}{r} 10003_4 \\ - 2333_4 \\ \hline 1010_4 \end{array}$$

$$\begin{array}{r} 10202_4 \\ - 3023_4 \\ \hline 1113_4 \end{array}$$

$$\begin{array}{r} 11031_4 \\ - 2120_4 \\ \hline 2311_4 \end{array}$$

$$\begin{array}{r} 10302_4 \\ - 2023_4 \\ \hline 2213_4 \end{array}$$

$$\begin{array}{r} 11113_4 \\ - 2312_4 \\ \hline 2201_4 \end{array}$$

# Subtracting Quaternary Numbers (G)

Calculate each difference.

$$\begin{array}{r} 11123_4 \\ - 2120_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10032_4 \\ - 2310_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11330_4 \\ - 2312_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11020_4 \\ - 1121_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10231_4 \\ - 2223_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11212_4 \\ - 3001_4 \\ \hline \end{array}$$

$$\begin{array}{r} 13113_4 \\ - 3122_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10132_4 \\ - 2100_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10332_4 \\ - 2320_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10203_4 \\ - 3112_4 \\ \hline \end{array}$$

$$\begin{array}{r} 3001_4 \\ - 1200_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11111_4 \\ - 3320_4 \\ \hline \end{array}$$

$$\begin{array}{r} 3302_4 \\ - 1001_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10311_4 \\ - 2300_4 \\ \hline \end{array}$$

$$\begin{array}{r} 3020_4 \\ - 1220_4 \\ \hline \end{array}$$

$$\begin{array}{r} 3012_4 \\ - 1300_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10003_4 \\ - 1022_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11101_4 \\ - 3211_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10122_4 \\ - 1033_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11331_4 \\ - 3102_4 \\ \hline \end{array}$$

# Subtracting Quaternary Numbers (G) Answers

Calculate each difference.

$$\begin{array}{r} 11123_4 \\ - 2120_4 \\ \hline 3003_4 \end{array}$$

$$\begin{array}{r} 10032_4 \\ - 2310_4 \\ \hline 1122_4 \end{array}$$

$$\begin{array}{r} 11330_4 \\ - 2312_4 \\ \hline 3012_4 \end{array}$$

$$\begin{array}{r} 11020_4 \\ - 1121_4 \\ \hline 3233_4 \end{array}$$

$$\begin{array}{r} 10231_4 \\ - 2223_4 \\ \hline 2002_4 \end{array}$$

$$\begin{array}{r} 11212_4 \\ - 3001_4 \\ \hline 2211_4 \end{array}$$

$$\begin{array}{r} 13113_4 \\ - 3122_4 \\ \hline 3331_4 \end{array}$$

$$\begin{array}{r} 10132_4 \\ - 2100_4 \\ \hline 2032_4 \end{array}$$

$$\begin{array}{r} 10332_4 \\ - 2320_4 \\ \hline 2012_4 \end{array}$$

$$\begin{array}{r} 10203_4 \\ - 3112_4 \\ \hline 1031_4 \end{array}$$

$$\begin{array}{r} 3001_4 \\ - 1200_4 \\ \hline 1201_4 \end{array}$$

$$\begin{array}{r} 11111_4 \\ - 3320_4 \\ \hline 1131_4 \end{array}$$

$$\begin{array}{r} 3302_4 \\ - 1001_4 \\ \hline 2301_4 \end{array}$$

$$\begin{array}{r} 10311_4 \\ - 2300_4 \\ \hline 2011_4 \end{array}$$

$$\begin{array}{r} 3020_4 \\ - 1220_4 \\ \hline 1200_4 \end{array}$$

$$\begin{array}{r} 3012_4 \\ - 1300_4 \\ \hline 1112_4 \end{array}$$

$$\begin{array}{r} 10003_4 \\ - 1022_4 \\ \hline 2321_4 \end{array}$$

$$\begin{array}{r} 11101_4 \\ - 3211_4 \\ \hline 1230_4 \end{array}$$

$$\begin{array}{r} 10122_4 \\ - 1033_4 \\ \hline 3023_4 \end{array}$$

$$\begin{array}{r} 11331_4 \\ - 3102_4 \\ \hline 2223_4 \end{array}$$

# Subtracting Quaternary Numbers (H)

Calculate each difference.

$$\begin{array}{r} 10111_4 \\ - 2322_4 \\ \hline \end{array}$$

$$\begin{array}{r} 3320_4 \\ - 1033_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10333_4 \\ - 2021_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11200_4 \\ - 2103_4 \\ \hline \end{array}$$

$$\begin{array}{r} 3213_4 \\ - 1301_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11201_4 \\ - 3111_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11332_4 \\ - 2001_4 \\ \hline \end{array}$$

$$\begin{array}{r} 12030_4 \\ - 2200_4 \\ \hline \end{array}$$

$$\begin{array}{r} 3022_4 \\ - 1210_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11010_4 \\ - 1102_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10002_4 \\ - 1022_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10330_4 \\ - 2333_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10023_4 \\ - 1203_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11233_4 \\ - 2000_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11301_4 \\ - 3320_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11102_4 \\ - 1222_4 \\ \hline \end{array}$$

$$\begin{array}{r} 12102_4 \\ - 3312_4 \\ \hline \end{array}$$

$$\begin{array}{r} 2313_4 \\ - 1121_4 \\ \hline \end{array}$$

$$\begin{array}{r} 12112_4 \\ - 3023_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11032_4 \\ - 3011_4 \\ \hline \end{array}$$

# Subtracting Quaternary Numbers (H) Answers

Calculate each difference.

$$\begin{array}{r} 10111_4 \\ - 2322_4 \\ \hline 1123_4 \end{array}$$

$$\begin{array}{r} 3320_4 \\ - 1033_4 \\ \hline 2221_4 \end{array}$$

$$\begin{array}{r} 10333_4 \\ - 2021_4 \\ \hline 2312_4 \end{array}$$

$$\begin{array}{r} 11200_4 \\ - 2103_4 \\ \hline 3031_4 \end{array}$$

$$\begin{array}{r} 3213_4 \\ - 1301_4 \\ \hline 1312_4 \end{array}$$

$$\begin{array}{r} 11201_4 \\ - 3111_4 \\ \hline 2030_4 \end{array}$$

$$\begin{array}{r} 11332_4 \\ - 2001_4 \\ \hline 3331_4 \end{array}$$

$$\begin{array}{r} 12030_4 \\ - 2200_4 \\ \hline 3230_4 \end{array}$$

$$\begin{array}{r} 3022_4 \\ - 1210_4 \\ \hline 1212_4 \end{array}$$

$$\begin{array}{r} 11010_4 \\ - 1102_4 \\ \hline 3302_4 \end{array}$$

$$\begin{array}{r} 10002_4 \\ - 1022_4 \\ \hline 2320_4 \end{array}$$

$$\begin{array}{r} 10330_4 \\ - 2333_4 \\ \hline 1331_4 \end{array}$$

$$\begin{array}{r} 10023_4 \\ - 1203_4 \\ \hline 2220_4 \end{array}$$

$$\begin{array}{r} 11233_4 \\ - 2000_4 \\ \hline 3233_4 \end{array}$$

$$\begin{array}{r} 11301_4 \\ - 3320_4 \\ \hline 1321_4 \end{array}$$

$$\begin{array}{r} 11102_4 \\ - 1222_4 \\ \hline 3220_4 \end{array}$$

$$\begin{array}{r} 12102_4 \\ - 3312_4 \\ \hline 2130_4 \end{array}$$

$$\begin{array}{r} 2313_4 \\ - 1121_4 \\ \hline 1132_4 \end{array}$$

$$\begin{array}{r} 12112_4 \\ - 3023_4 \\ \hline 3023_4 \end{array}$$

$$\begin{array}{r} 11032_4 \\ - 3011_4 \\ \hline 2021_4 \end{array}$$



# Subtracting Quaternary Numbers (I)

Calculate each difference.

$$\begin{array}{r} 10120_4 \\ - 2213_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10123_4 \\ - 2323_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11202_4 \\ - 3131_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11132_4 \\ - 3211_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10310_4 \\ - 3130_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11030_4 \\ - 2221_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11303_4 \\ - 3001_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10302_4 \\ - 1103_4 \\ \hline \end{array}$$

$$\begin{array}{r} 3010_4 \\ - 1201_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10322_4 \\ - 3200_4 \\ \hline \end{array}$$

$$\begin{array}{r} 2321_4 \\ - 1002_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11130_4 \\ - 3001_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11021_4 \\ - 1113_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11322_4 \\ - 2230_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10230_4 \\ - 1302_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10311_4 \\ - 3001_4 \\ \hline \end{array}$$

$$\begin{array}{r} 12310_4 \\ - 2320_4 \\ \hline \end{array}$$

$$\begin{array}{r} 12311_4 \\ - 2322_4 \\ \hline \end{array}$$

$$\begin{array}{r} 12122_4 \\ - 3331_4 \\ \hline \end{array}$$

$$\begin{array}{r} 12123_4 \\ - 2300_4 \\ \hline \end{array}$$

# Subtracting Quaternary Numbers (I) Answers

Calculate each difference.

$$\begin{array}{r} 10120_4 \\ - 2213_4 \\ \hline 1301_4 \end{array}$$

$$\begin{array}{r} 10123_4 \\ - 2323_4 \\ \hline 1200_4 \end{array}$$

$$\begin{array}{r} 11202_4 \\ - 3131_4 \\ \hline 2011_4 \end{array}$$

$$\begin{array}{r} 11132_4 \\ - 3211_4 \\ \hline 1321_4 \end{array}$$

$$\begin{array}{r} 10310_4 \\ - 3130_4 \\ \hline 1120_4 \end{array}$$

$$\begin{array}{r} 11030_4 \\ - 2221_4 \\ \hline 2203_4 \end{array}$$

$$\begin{array}{r} 11303_4 \\ - 3001_4 \\ \hline 2302_4 \end{array}$$

$$\begin{array}{r} 10302_4 \\ - 1103_4 \\ \hline 3133_4 \end{array}$$

$$\begin{array}{r} 3010_4 \\ - 1201_4 \\ \hline 1203_4 \end{array}$$

$$\begin{array}{r} 10322_4 \\ - 3200_4 \\ \hline 1122_4 \end{array}$$

$$\begin{array}{r} 2321_4 \\ - 1002_4 \\ \hline 1313_4 \end{array}$$

$$\begin{array}{r} 11130_4 \\ - 3001_4 \\ \hline 2123_4 \end{array}$$

$$\begin{array}{r} 11021_4 \\ - 1113_4 \\ \hline 3302_4 \end{array}$$

$$\begin{array}{r} 11322_4 \\ - 2230_4 \\ \hline 3032_4 \end{array}$$

$$\begin{array}{r} 10230_4 \\ - 1302_4 \\ \hline 2322_4 \end{array}$$

$$\begin{array}{r} 10311_4 \\ - 3001_4 \\ \hline 1310_4 \end{array}$$

$$\begin{array}{r} 12310_4 \\ - 2320_4 \\ \hline 3330_4 \end{array}$$

$$\begin{array}{r} 12311_4 \\ - 2322_4 \\ \hline 3323_4 \end{array}$$

$$\begin{array}{r} 12122_4 \\ - 3331_4 \\ \hline 2131_4 \end{array}$$

$$\begin{array}{r} 12123_4 \\ - 2300_4 \\ \hline 3223_4 \end{array}$$

# Subtracting Quaternary Numbers (J)

Calculate each difference.

$$\begin{array}{r} 2320_4 \\ - 1110_4 \\ \hline \end{array}$$

$$\begin{array}{r} 3002_4 \\ - 1101_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10102_4 \\ - 1130_4 \\ \hline \end{array}$$

$$\begin{array}{r} 3211_4 \\ - 1220_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11332_4 \\ - 2323_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11300_4 \\ - 2000_4 \\ \hline \end{array}$$

$$\begin{array}{r} 3221_4 \\ - 1001_4 \\ \hline \end{array}$$

$$\begin{array}{r} 3202_4 \\ - 1001_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10122_4 \\ - 2330_4 \\ \hline \end{array}$$

$$\begin{array}{r} 3103_4 \\ - 2103_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10210_4 \\ - 1120_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11200_4 \\ - 2121_4 \\ \hline \end{array}$$

$$\begin{array}{r} 10102_4 \\ - 1221_4 \\ \hline \end{array}$$

$$\begin{array}{r} 2200_4 \\ - 1003_4 \\ \hline \end{array}$$

$$\begin{array}{r} 3331_4 \\ - 1113_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11200_4 \\ - 3231_4 \\ \hline \end{array}$$

$$\begin{array}{r} 13122_4 \\ - 3300_4 \\ \hline \end{array}$$

$$\begin{array}{r} 3332_4 \\ - 1003_4 \\ \hline \end{array}$$

$$\begin{array}{r} 12122_4 \\ - 3123_4 \\ \hline \end{array}$$

$$\begin{array}{r} 11130_4 \\ - 2123_4 \\ \hline \end{array}$$

# Subtracting Quaternary Numbers (J) Answers

Calculate each difference.

$$\begin{array}{r} 2320_4 \\ - 1110_4 \\ \hline 1210_4 \end{array}$$

$$\begin{array}{r} 3002_4 \\ - 1101_4 \\ \hline 1301_4 \end{array}$$

$$\begin{array}{r} 10102_4 \\ - 1130_4 \\ \hline 2312_4 \end{array}$$

$$\begin{array}{r} 3211_4 \\ - 1220_4 \\ \hline 1331_4 \end{array}$$

$$\begin{array}{r} 11332_4 \\ - 2323_4 \\ \hline 3003_4 \end{array}$$

$$\begin{array}{r} 11300_4 \\ - 2000_4 \\ \hline 3300_4 \end{array}$$

$$\begin{array}{r} 3221_4 \\ - 1001_4 \\ \hline 2220_4 \end{array}$$

$$\begin{array}{r} 3202_4 \\ - 1001_4 \\ \hline 2201_4 \end{array}$$

$$\begin{array}{r} 10122_4 \\ - 2330_4 \\ \hline 1132_4 \end{array}$$

$$\begin{array}{r} 3103_4 \\ - 2103_4 \\ \hline 1000_4 \end{array}$$

$$\begin{array}{r} 10210_4 \\ - 1120_4 \\ \hline 3030_4 \end{array}$$

$$\begin{array}{r} 11200_4 \\ - 2121_4 \\ \hline 3013_4 \end{array}$$

$$\begin{array}{r} 10102_4 \\ - 1221_4 \\ \hline 2221_4 \end{array}$$

$$\begin{array}{r} 2200_4 \\ - 1003_4 \\ \hline 1131_4 \end{array}$$

$$\begin{array}{r} 3331_4 \\ - 1113_4 \\ \hline 2212_4 \end{array}$$

$$\begin{array}{r} 11200_4 \\ - 3231_4 \\ \hline 1303_4 \end{array}$$

$$\begin{array}{r} 13122_4 \\ - 3300_4 \\ \hline 3222_4 \end{array}$$

$$\begin{array}{r} 3332_4 \\ - 1003_4 \\ \hline 2323_4 \end{array}$$

$$\begin{array}{r} 12122_4 \\ - 3123_4 \\ \hline 2333_4 \end{array}$$

$$\begin{array}{r} 11130_4 \\ - 2123_4 \\ \hline 3001_4 \end{array}$$