

Exercise

1. If $1011_2 + 1101_2 = x_2$ find the value of x
Ans: 11000_2
2. Compute $11010_2 - 1011_2$, give your answer in base 2
Ans: 1111_2
3. If $312_4 - 123_4 = y_4$, find y
Ans: 123_4
4. Calculate $23_6 \times 4_6$, expressing your answer in base 6
Ans: 140_6
5. Find the product of 101_2 and 11_2 , leaving your answer in base 2
Ans: 1111_2
6. Divide 1100_2 by 10_2 , giving your answer in base two
Ans: 110_2
7. If $132_4 \div 3_4 = z_4$, determine the value of z
Ans: 22_4
8. If $23_n = 19$, find the value of n .
 $n = 8$
9. Solve for n in the equation $101_n + 11_n = 1000_n$
 $n = 2$