3. Binary to Decimal:

1011 1110

Decimal : 2^7 + 2^5 + 2^4 + 2^3 + 2^2 + 2^1 = 128 + 32 + 16 + 8 + 4 + 2 = 190

4. Decimal to Binary:

55

64 32 16 8 4 2 1

0 1

1 0

1

1

1

Binary : 110111

5. Octal to Binary

461

Binary: 100 (4) 110 (6) 001 (1) = 100110001

6. Binary to Hexadecimal

11110001

Hexadecimal: 15 (1111) 1 (0001) = F1

7. Hexadecimal to Binary

ABC

Binary: 10 (A) 11 (B) 12 (C) = 1010 (10) 1011 (11) 1100 (12) = 101010111100

8. Binary to Octal

10101111

Octal: 2 (10) 5 (101) 7 (111) = 257

9. Binary to Hexadecimal

10101111

Hexadecimal: 10 (1010) 15 (1111) = AF

10. Octal to Hexadecimal

5636

Binary: 101(5) 110(6) 011(3) 110(6) = 101 110 011 110 (Octal --> Binary)

Hexadecimal: 11(1011) 9 (1001) 14 (1110) = B9E

11. Hexadecimal to Octal

D68

Binary: 13(D) 6(6) 8(8) = 1101(13) 0110(6) 1000(8) = 1101 0110 1000 (Hex --> Binary)

Octal: (110)(101)(101)(000)= 6550

\*\*\* Octal to Binary, Hex to Binary add leading zero if needed.