

Binary and Hexadecimal Numbers

i. Convert the following denary numbers into 8-bit binary representation:

- 5
- 100
- 23
- 189
- 212
- 38
- 99
- 255
- 150
- 77

ii. Convert the following 8-bit binary numbers into denary representation:

- 0001 0100
- 0111 0010
- 1000 0101
- 1011 1100
- 0011 1110
- 1111 0000
- 0000 1111
- 0001 1101
- 0101 0110
- 0111 0111

iii. Convert the following denary numbers into hexadecimal representation:

- 115
- 35
- 197
- 202
- 150
- 133
- 198
- 219

iv. Complete the following binary operations:

- $00001101 + 01100110$
- $01110101 + 01001011$
- 00001011×10010001
- $00001100 + 00010010$
- 01101001×10000110
- $11001101 + 00001111$