Solutions

0. Convert these octal numbers to decimal

1. 302 -> 194
2. 632 -> 410
3. 235 -> 157
4. 654 -> 428
5. 162 -> 114

1. Convert these decimal numbers to octal

1. 90 -> 132
2. 307 -> 463
3. 260 -> 404
4. 491 -> 753
5. 169 -> 251

2. Find the 8's complement of these octal numbers

1. 35 = 43
2. 624 = 154
3. 103 = 675
4. 322 = 456
5. 346 = 432

3. Find the 7's complement of these octal numbers

1. 657 = 120
2. 232 = 545
3. 307 = 470
4. 425 = 352
5. 612 = 165

4. Convert these octal numbers to binary

1. 473 -> 100111011
2. 500 -> 101000000
3. 443 -> 100100011
4. 173 -> 1111011
5. 313 -> 11001011

5. Convert these binary numbers to octal

1. 100101010 -> 452
2. 100000 -> 40
3. 111011010 -> 732
4. 111110100 -> 764
5. 110001000 -> 610

6. Convert these hexadecimal numbers to octal

1. 1d6 = 726

2. 8e = 216
3. 1a7 = 647
4. 182 = 602
5. 1b1 = 661

7. Convert these octal numbers to hexadecimal

1. 43 = 23
2. 525 = 155
3. 162 = 72
4. 624 = 194
5. 424 = 114

8. Find the 16's complement of these hexadecimal numbers

1. e0e
2. 4
3. e85
4. 3e
5. e3c

9. Find the 15's complement of these hexadecimal numbers

1. e4c
2. ed3
3. 7
4. 7e
5. efa

10. Convert these hexadecimal numbers to binary

1. 4f = 1001111
2. aa = 10101010
3. 77 = 1110111
4. 134 = 100110100
5. 13f = 100111111

11. Convert these binary numbers to hexadecimal

1. 101010101 = 155
2. 111010011 = 1d3
3. 101000101 = 145
4. 11011111 = df
5. 100011100 = 11c