Reference → 256, 128, 64, 32, 16, 8, 4, 2, 1
For Conversions

Convert the following decimal numbers to Binary

1. 45_{10} : 101101_2

45/2 = 22 R1
22/2 = 11 R0
11/2 = 5 R1
5/2 = 2 R1
2/2 = 1 R0
1/2 = 0 R1

2. 169_{10} : 10101001_2

169/2 = 84 R1
84/2 = 42 R0
42/2 = 21 R0
21/2 = 10 R1
10/2 = 5 R0
5/2 = 2 R1
2/2 = 1 R0
1/2 = 0 R1

3. 243_{10} : 11110011_2

243/2 = 121 R1
121/2 = 60 R1
60/2 = 30 R0
30/2 = 15 R0
15/2 = 7 R1
7/2 = 3 R1
3/2 = 1 R1
1/2 = 0 R1

4. 111_{10} : 1101111_2

111/2 = 55 R1
55/2 = 27 R1
27/2 = 13 R1
13/2 = 6 R1
6/2 = 3 R0
3/2 = 1 R1
1/2 = 0 R1

5. 77_{10} : 1001101_2

77/2 = 38 R1
38/2 = 19 R0
19/2 = 9 R1
9/2 = 4 R1
4/2 = 2 R0
2/2 = 1 R0
1/2 = 0 R1

6. 212_{10} : 11010100_2

212/2 = 106 R0
106/2 = 53 R0
53/2 = 26 R1
26/2 = 13 R0
13/2 = 6 R1
6/2 = 3 R0
3/2 = 1 R1
1/2 = 0 R1