1. Converta os números decimais abaixo em binário:
2. **49**

49/2 - 24 resto = 1

24/2 – 12 resto = 0

12/2 – 6 resto 0

6/2 – 3 resto = 0

3/2 – 1 resto = 1

½ = 0 resto 1

**110001**

1. **89**

89/2 – 44 resto = 1

44/2 – 22 resto = 0

22/2 – 11 resto = 0

11/2 – 5 resto = 1

5/2 – 2 resto = 1

2/2 – 1 resto = 0

½ = 0 resto 1

**1011001**

1. **64**

64/2 – 32 resto = 0

32/2 – 16 resto = 0

16/2 – 8 resto = 0

8/2 – 4 resto = 0

4/2 – 2 resto = 0

2/2 – 1 resto = 0

½ = 0 resto 1

**1000000**

1. **120**

120/2 – 60 resto = 0

60/2 – 30 resto = 0

30/2 – 15 resto = 0

15/2 – 7 resto = 1

7/2 – 3 resto = 1

3/2 – 1 resto = 1

½ = 0 resto 1

**1111000**

1. **295**

295/2 – 147 resto = 1

147/2 – 73 resto = 1

73/2 – 36 resto = 1

36/2 – 18 resto = 0

18/2 – 9 resto = 0

9/2 – 4 resto = 1

4/2 – 2 resto = 0

2/2 – 1 resto = 0

½ = 0 resto 1

**100100111**

1. Converta os números BINÁRIOS abaixo em DECIMAL:
2. **100110**

25+04+03+22+21+00

32+0+0+4+2+0 **= 38**

1. **101111100**

28+07+26+25+24+23+22+01+00

256+0+64+32+16+8+4+0+0 **= 380**

256

064

032

016

008

004

380

1. **10000000001**

210+09+08+07+06+05+04+03+02+01+20

1024+0+0+0+0+0+0+0+0+0+1 = **1025**

1. **1100100**

26+25+04+03+22+01+00

64+32+0+0+4+0+0 **= 100**

1. **10010110011**

210+09+08+27+06+25+24+03+02+21+20

1024+0+0+128+0+32+16+0+0+0+1 = **1201**