Lista de Exercício: ① Binário para Decimal

1 - 11001_2 -> $1 + 8 + 16 = 25_{10}$
2 - 101101011_2 -> $1 + 2 + 8 + 32 + 64 + 256 = 363_{10}$
3 - 10001111_2 -> $1 + 2 + 4 + 8 + 128 = 143_{10}$
4 - 111010010_2 -> $2 + 16 + 64 + 128 + 256 = 466_{10}$
5 - 10111001111_2 -> $1 + 4 + 8 + 16 + 128 + 256 + 1024 = 1581_{10}$
6 - 100101110101_2 -> $1 + 4 + 16 + 32 + 128 + 1024 + 2048 = 3253_{10}$
7 - 111_2 -> $1 + 2 + 4 = 7_{10}$
8 - 1001_2 -> $8 + 1 = 9_{10}$
9 - 10000_2 -> 16_{10}
10 - 111000_2 -> $8 + 16 + 32 = 56_{10}$
11 - 101200_2 -> ✗
12 - 1011011_2 -> $1 + 2 + 8 + 16 + 64 = 91_{10}$
13 - 1100101_2 -> $1 + 4 + 32 + 64 = 101_{10}$
14 - 11101_2 -> $1 + 4 + 8 + 16 = 29_{10}$
15 - 11101011_2 -> $1 + 2 + 8 + 32 + 64 + 128 = 235_{10}$
16 - 11101000_2 -> $8 + 32 + 64 + 128 = 232_{10}$
17 - 110100011001_2 -> $1 + 8 + 16 + 256 + 1024 + 2048 = 3353_{10}$
18 - 10001101_2 -> $1 + 4 + 8 + 16 + 256 = 285_{10}$
19 - 11011111110_2 -> $2 + 4 + 8 + 16 + 32 + 64 + 128 + 1024 + 2048 = 3326_{10}$
20 - 11101_2 -> $1 + 4 + 8 + 16 = 29_{10}$

② Decimal para binário

1 - 10_{10} -> 1010_2
2 - 67_{10} -> 1000011_2
3 - 450_{10} -> 111000010_2
4 - 999_{10} -> 1111100111_2
5 - 325_{10} -> 101000101_2
6 - 650_{10} -> 1010001010_2
7 - 77_{10} -> 1001101_2

FORONI

8- $189_{10} \rightarrow 10111101_2$

9- $234_{10} \rightarrow 11101010_2$

10- $74_{10} \rightarrow 1001010_2$

11- $167_{10} \rightarrow 10100111_2$

12- $83_{10} \rightarrow 1010011_2$

13 → $1600_{10} \rightarrow 11001000000_2$

14 → $999_{10} \rightarrow 1111100111_2$

15 → $750_{10} \rightarrow 1011101110_2$

16 → $27_{10} \rightarrow 11011_2$

17 → $1991_{10} \rightarrow 11111000111_2$

18 → $2020_{10} \rightarrow 11111100100_2$

19 → $01112002_{10} \rightarrow 10000111101111100001_2$

20 → $19_{10} \rightarrow 10011_2$

Lista 2 -

	octagonal em binário	octagonal em decimal
1	$405_8 \rightarrow 100000101_2$	$75_8 \rightarrow 7 \cdot 8^1 + 5 \cdot 8^0 = 61_{10}$
2	$477_8 \rightarrow 100111111_2$	$66_8 \rightarrow 6 \cdot 8^1 + 6 \cdot 8^0 = 54_{10}$
3	$237_8 \rightarrow 10011111_2$	$48_8 \rightarrow$ ☒
4	$46_8 \rightarrow 100110_2$	$40_8 \rightarrow 4 \cdot 8^1 + 0 \cdot 8^0 = 32_{10}$
5	$705_8 \rightarrow 111000101_2$	$36_8 \rightarrow 3 \cdot 8 + 6 \cdot 8^0 = 30_{10}$
6	$173_8 \rightarrow 1111011_2$	$37_8 \rightarrow 3 \cdot 8 + 7 \cdot 8^0 = 31_{10}$
7	$3018 \rightarrow 010000001_2$	$05_8 \rightarrow 0 \cdot 8 + 5 \cdot 8^0 = 5_{10}$
8	$452_8 \rightarrow 100101010_2$	$50_8 \rightarrow 5 \cdot 8 + 0 \cdot 8^0 = 40_{10}$
9	$2136_8 \rightarrow 010001011110_2$	$121_8 \rightarrow 1 \cdot 8^2 + 2 \cdot 8 + 1 \cdot 8^0 = 81_{10}$
10	$1741_8 \rightarrow 111100001_2$	$65_8 \rightarrow 6 \cdot 8 + 5 \cdot 8^0 = 53_{10}$
11	$613_8 \rightarrow 110001011_2$	$22_8 \rightarrow 2 \cdot 8 + 2 \cdot 8^0 = 18_{10}$
12	$546_8 \rightarrow 101100110_2$	$45_8 \rightarrow 4 \cdot 8 + 5 \cdot 8^0 = 37_{10}$
13	$120_8 \rightarrow 1010000_2$	$75_8 \rightarrow 7 \cdot 8 + 5 \cdot 8^0 = 61_{10}$
14	$3178 \rightarrow 011001111_2$	$86_8 \rightarrow$ ☒
15	$720_8 \rightarrow 111010000_2$	$42_8 \rightarrow 4 \cdot 8 + 2 \cdot 8^0 = 34_{10}$
16	$665_8 \rightarrow 110110101_2$	

FORONI