

Arbeitsblatt Binärzahlen 1

Aufgabe

Zahl	16er	8er	4er	2er	1er
1	0	0	0	0	1
2	0	0	0	1	0
3	0	0	0	1	1
4	0	0	1	0	0
5	0	0	1	0	1
6	0	0	1	1	0
7	0	0	1	1	1
8	0	1	0	0	0
9	0	1	0	0	1
10	0	1	0	1	0
11	0	1	0	1	1
12	0	1	1	0	0
13	0	1	1	0	1
14	0	1	1	1	0
15	0	1	1	1	1
16	1	0	0	0	0
17	1	0	0	0	1
18	1	0	0	1	0
19	1	0	0	1	1
20	1	0	1	0	0
21	1	0	1	0	1
22	1	0	1	1	0
23	1	0	1	1	1
24	1	1	0	0	0
25	1	1	0	0	1
26	1	1	0	1	0
27	1	1	0	1	1
28	1	1	1	0	0
29	1	1	1	0	1
30	1	1	1	1	0
31	1	1	1	1	1

Zusatzaufgabe

- $1010101_{(2)} = 64 + 16 + 4 + 1 = 85$
- $101110_{(2)} = 32 + 8 + 4 + 2 = 46$
- $100001_{(2)} = 32 + 1 = 33$
- $110001_{(2)} = 32 + 16 + 1 = 49$
- $1110111_{(2)} = 64 + 32 + 16 + 4 + 2 + 1 = 119$
- $110011_{(2)} = 32 + 16 + 2 + 1 = 51$
- $11001_{(2)} = 16 + 8 + 1 = 25$
- $1001001_{(2)} = 64 + 8 + 1 = 73$
- $1011101_{(2)} = 64 + 16 + 8 + 4 + 1 = 93$