

- ① Rechne die Zahlen aus dem Dualsystem in das Dezimalsystem um. Nutze dazu die Stellenwerttafel.

a) 101_2

b) 1010_2

c) 1000_2

d) 100_2

e) 111_2

f) 1011_2

g) 10101_2

h) 111001_2

i) 101011_2

j) 1100011_2

	64	32	16	8	4	2	1	Zahl im Dezimalsystem
a)					1	0	1	$4 + 1 = 5$
b)								
c)								
d)								
e)								
f)								
g)								
h)								
i)								
j)								

- ② Wie das Dezimalsystem kann das Dualsystem für größere Zahlen beliebig erweitert werden. Große Zahlen haben dann mehr Stellen.

Wandle die Zahl 1000110101_2 ins Dezimalsystem um. Berechne dafür zuerst die Werte der einzelnen Stellen.

[illegible]

- [illegible]

- [illegible]

- [illegible]

- The diagram illustrates the construction of binary numbers using a grid of boxes. Each box is divided into three sections: a left section for a shaded square, a middle section for the binary digit, and a right section for a shaded square. The numbers are constructed as follows:

 - 10_2 : The first box has a shaded square in the left section, and the second box has a shaded square in the right section.
 - 110_2 : The first box has a shaded square in the left section, the second box has a shaded square in the middle section, and the third box has a shaded square in the right section.
 - 1000_2 : The first box has a shaded square in the left section, the second box has a shaded square in the middle section, the third box has a shaded square in the middle section, and the fourth box has a shaded square in the right section.
 - 11_2 : The first box has a shaded square in the left section, the second box has a shaded square in the middle section, and the third box has a shaded square in the right section.
 - 1100_2 : The first box has a shaded square in the left section, the second box has a shaded square in the middle section, the third box has a shaded square in the middle section, and the fourth box has a shaded square in the right section.
 - 10011_2 : The first box has a shaded square in the left section, the second box has a shaded square in the middle section, the third box has a shaded square in the middle section, the fourth box has a shaded square in the middle section, and the fifth box has a shaded square in the right section.

- [illegible]