

- 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 [illegible]

- 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]

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- A blank sheet of graph paper with a grid pattern. The grid consists of small squares formed by thin black lines. There are 20 columns and 15 rows of squares. The entire sheet is covered by this grid, with no margins or other markings.

- 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 a digit, and a right section for a shaded square. The numbers are constructed as follows:

 - 10_2 : The middle section of the first box contains the digit 1, and the middle section of the second box contains the digit 0.
 - 110_2 : The middle section of the first box contains the digit 1, the middle section of the second box contains the digit 1, and the middle section of the third box contains the digit 0.
 - 1000_2 : The middle section of the first box contains the digit 1, and the middle sections of the next three boxes contain the digits 0, 0, and 0.
 - 11_2 : The middle section of the first box contains the digit 1, and the middle section of the second box contains the digit 1.
 - 1100_2 : The middle section of the first box contains the digit 1, the middle section of the second box contains the digit 1, and the middle sections of the next two boxes contain the digits 0 and 0.
 - 10011_2 : The middle section of the first box contains the digit 1, the middle sections of the next two boxes contain the digits 0 and 0, the middle section of the fourth box contains the digit 1, and the middle section of the fifth box contains the digit 1.

- [illegible]