

calc_decimal_example

Student Group

First Name	Surname	Matrikel Nr.

Table of Contents


```

\color{black}{2} & \color{black}{6} & \color{black}{5} & \color{black}{8.} & \color{black}{4} &
\color{black}{7} \\ \color{black}{\text{index}}: & \color{black}{i} & \color{black}{3} &
\color{black}{2} & \color{black}{1} & \color{black}{0} & \color{black}{-1} & \color{black}{-2} \\
\color{blue }{\text{place value}}: & \color{blue }{B^i} & \color{blue }{10^3} & \color{blue
}{10^2} & \color{blue }{10^1} & \color{blue }{10^0} & \color{blue }{10^{-1}} & \color{blue
}{10^{-2}} \\ \color{white}{} & \color{white}{} & \color{white}{1000} & \color{white}{100} &
\color{white}{10} & \color{white}{1} & \color{white}{0.1} & \color{white}{0.01} \\
\color{white}{\text{digit}}: & \color{white}{z_i} & \color{white}{2} & \color{white}{6} &
\color{white}{5} & \color{white}{8} & \color{white}{4} & \color{white}{7} \\
\color{white}{\text{calc.}}: & \color{white}{z_i \cdot B^i} & \color{white}{2000} &
\color{white}{600} & \color{white}{50} & \color{white}{8} & \color{white}{0.4} &
\color{white}{0.07} \\ \color{white}{\text{result}}: & \color{white}{\sum_i z_i \cdot B^i} & & &
\color{white}{2658.47} \\ \end{smallmatrix} \end{align*}

```

```

\begin{align*} \begin{smallmatrix} \color{black}{\text{value}}: & \color{black}{} &
\color{black}{2} & \color{black}{6} & \color{black}{5} & \color{black}{8.} & \color{black}{4} &
\color{black}{7} \\ \color{black}{\text{index}}: & \color{black}{i} & \color{black}{3} &
\color{black}{2} & \color{black}{1} & \color{black}{0} & \color{black}{-1} & \color{black}{-2} \\
\color{black}{\text{place value}}: & \color{black}{B^i} & \color{black}{10^3} &
\color{black}{10^2} & \color{black}{10^1} & \color{black}{10^0} & \color{black}{10^{-1}} &
\color{black}{10^{-2}} \\ \color{black}{} & \color{black}{} & \color{black}{1000} &
\color{black}{100} & \color{black}{10} & \color{black}{1} & \color{black}{0.1} &
\color{black}{0.01} \\ \color{black}{\text{digit}}: & \color{black}{z_i} & \color{black}{2} &
\color{black}{6} & \color{black}{5} & \color{black}{8} & \color{black}{4} & \color{black}{7} \\
\color{black}{\text{calc.}}: & \color{black}{z_i \cdot B^i} & \color{black}{2000} &
\color{black}{600} & \color{black}{50} & \color{black}{8} & \color{black}{0.4} &
\color{black}{0.07} \\ \color{black}{\text{result}}: & \color{black}{\sum_i z_i \cdot B^i} & & &
\color{black}{2658.47} \\ \end{smallmatrix} \end{align*}

```

```

\begin{align*} \begin{smallmatrix} \color{blue }{\text{value}}: & \color{blue }{} & \color{blue
}{2} & \color{blue }{6} & \color{blue }{5} & \color{blue }{8.} & \color{blue }{4} & \color{blue
}{7} \\ \color{blue }{\text{index}}: & \color{blue }{i} & \color{blue }{3} & \color{blue }{2} &
\color{blue }{1} & \color{blue }{0} & \color{blue }{-1} & \color{blue }{-2} \\
\color{blue }{\text{place value}}: & \color{blue }{B^i} & \color{blue }{10^3} & \color{blue }{10^2} &
\color{blue }{10^1} & \color{blue }{10^0} & \color{blue }{10^{-1}} & \color{blue }{10^{-2}} \\
\color{blue }{} & \color{blue }{} & \color{blue }{1000} & \color{blue }{100} & \color{blue }{10} &
\color{blue }{1} & \color{blue }{0.1} & \color{blue }{0.01} \\ \color{blue }{\text{digit}}: &
\color{blue }{z_i} & \color{blue }{2} & \color{blue }{6} & \color{blue }{5} & \color{blue }{8} &
\color{blue }{4} & \color{blue }{7} \\
\color{blue }{\text{calc.}}: & \color{blue }{z_i \cdot B^i} & \color{blue }{2000} &
\color{blue }{600} & \color{blue }{50} & \color{blue }{8} & \color{blue }{0.4} &
\color{blue }{0.07} \\ \color{blue }{\text{result}}: & \color{blue }{\sum_i z_i \cdot B^i} & & &
\color{blue }{2658.47} \\ \end{smallmatrix} \end{align*}

```

```

\begin{align*} \begin{smallmatrix} \color{white}{\text{value}}: & \color{white}{} &
\color{white}{2} & \color{white}{6} & \color{white}{5} & \color{white}{8.} & \color{white}{4} &
\color{white}{7} \\ \color{white}{\text{index}}: & \color{white}{i} & \color{white}{3} &
\color{white}{2} & \color{white}{1} & \color{white}{0} & \color{white}{-1} & \color{white}{-2} \\
\color{white}{\text{place value}}: & \color{white}{B^i} & \color{white}{10^3} &
\color{white}{10^2} & \color{white}{10^1} & \color{white}{10^0} & \color{white}{10^{-1}} &
\color{white}{10^{-2}} \\ \end{smallmatrix} \end{align*}

```


$\frac{1}{R_1+R_2}$	$A_V = \frac{1}{\frac{1}{R_1+R_2} + \frac{1}{A_D}}$	mit $\frac{1}{A_D} \rightarrow \infty$ 0
$\frac{1}{R_1+R_2}$	$A_V = \frac{1}{\frac{1}{R_1+R_2}}$	Bruch umformen
$\frac{1}{R_1+R_2}$	$A_V = \frac{R_1+R_2}{1}$	
$\frac{1}{R_1+R_2}$	$A_V = R_1+R_2$	

From:
<https://wiki.mexle.org/> - MEXLE Wiki

Permanent link:
https://wiki.mexle.org/introduction_to_digital_systems/calc_decimal_example?rev=1631665999

Last update: **2021/09/15 02:33**

