



Opleiding: Middenkaderfunctionaris Bouw en Infra
Leerweg: BOL Niveau 4

Wiskunde 1-1

Periode 01

Opdrachten Week 02

Getallen – Rekenen

Uitweking

Te behalen cijfers = NVT

Naam: _____

Klas: _____

Datum: _____

Opgave 15:

Bereken:

a $160,34 - 25,9$

b $25,9 - 160,34$

c $105,3 + -314,2$

d $-105,3 - -314,2$

Oplossing:

a $160,34 - 25,9$

$$\begin{array}{r} 160,34 \\ 25,90 - \\ \hline 134,44 \end{array}$$

Handwritten annotations: Red arrows above the numbers indicate borrowing. From the 4 in the hundredths place to the 3 in the tenths place (labeled 10), and from the 0 in the tenths place to the 9 in the hundredths place (labeled 13).

b $25,9 - 160,34$

$$\begin{array}{r} -160,34 \\ +25,90 \\ \hline -134,44 \end{array}$$

Handwritten annotations: Red arrows above the numbers indicate borrowing. From the 0 in the hundredths place to the 9 in the tenths place (labeled 10), and from the 5 in the tenths place to the 3 in the hundredths place (labeled 13). A green arrow on the left points from the result line back to the second number.

c $105,3 + -314,2$

$= 105,3 (+ \times -) 314,2$

$= 105,3 - 314,2$

$$\begin{array}{r} -314,2 \\ +105,3 - \\ \hline -208,9 \end{array}$$

Handwritten annotations: Red arrows above the numbers indicate borrowing. From the 2 in the tenths place to the 3 in the hundredths place (labeled 13), and from the 0 in the tenths place to the 5 in the hundredths place (labeled 12). A green arrow on the left points from the result line back to the second number.

d $-105,3 - -314,2$

$= -105,3 (- \times -) 314,2$

$= -105,3 + 314,2$

$$\begin{array}{r} +314,2 \\ -105,3 - \\ \hline +208,9 \end{array}$$

Handwritten annotations: Red arrows above the numbers indicate borrowing. From the 2 in the tenths place to the 3 in the hundredths place (labeled 13), and from the 4 in the tenths place to the 5 in the hundredths place (labeled 12). A green arrow on the left points from the result line back to the second number.

Opgave 16:

Doe de volgende optellingen en aftrekkingen met de hand.

- a $341 + 1715$
- b $341 - 1715$
- c $22,39 - 7,6$
- d $22,39 - -7,6$
- e $0,123 + 0,049$
- f $-0,123 - 0,049$

Oplossing:

a $341 + 1715$

$$\begin{array}{r} +1715 \\ + 341 \\ \hline 2056 \end{array}$$

b $341 - 1715$

$$\begin{array}{r} \overset{6}{\curvearrowright} \\ -1715 \\ + 341 \\ \hline -1374 \end{array}$$

c $22,39 - 7,6$

$$\begin{array}{r} \overset{1}{\curvearrowright} \quad \overset{13}{\curvearrowright} \\ +22,39 \\ - 7,60 \\ \hline 14,79 \end{array}$$

d $22,39 - -7,6$

$$\begin{array}{l} = 22,39 \overset{(- \times -)}{\curvearrowright} 7,6 \\ = 22,39 + 7,6 \\ \begin{array}{r} +22,39 \\ + 7,60 \\ \hline 29,99 \end{array} \end{array}$$

e $0,123 + 0,049$

$$\begin{array}{r} +0,123 \\ +0,049 \\ \hline 0,172 \end{array}$$

f $-0,123 - 0,049$

$$\begin{array}{r} -0,123 \\ -0,049 \\ \hline -0,172 \end{array}$$

Opgave 17:

Je kunt $1264 - 913$ ook uitrekenen door 913 aan te vullen tot 1264:

$913 + 7 + 80 + 264 = 1264$, dus $1264 - 913 = 7 + 80 + 264 = 351$.

Bereken op deze manier:

a $2573 - 2412$

b $6,72 - 5,38$

Oplossing:

a $2412 + 8 + 80 + 73 = 2573$, dus $2573 - 2412 = 161$.

b $5,38 + 0,02 + 0,60 + 0,72 = 6,72$, dus $6,72 - 5,38 = 1,34$.

Opgave 18:

Doe de volgende optellingen en aftrekkingen met de hand.

- a $1645 - 797 - 418$
- b $1645 + 797 - 418$
- c $1645 - 797 + 418$
- d $1645 + 797 + 418$

Oplossing:

a $1645 - 797 - 418$

$$\begin{array}{r} \textcircled{2} \\ -797 \\ -418 \quad + \\ \hline -1215 \\ \end{array}$$
$$\begin{array}{r} +1645 \\ -1215 \quad - \\ \hline +430 \end{array}$$

b $1645 + 797 - 418$

$$\begin{array}{r} \textcircled{1} \\ +1645 \\ +797 \quad + \\ \hline 2442 \\ \end{array}$$
$$\begin{array}{r} \textcircled{2} \\ +2442 \\ -418 \quad - \\ \hline +2024 \end{array}$$

c $1645 - 797 + 418$

$$\begin{array}{r} +1645 \\ +418 \quad + \\ \hline +2063 \\ \end{array}$$
$$\begin{array}{r} 2063 \\ -797 \\ \hline +1266 \end{array}$$

d $1645 + 797 + 418$

$$\begin{array}{r} +1645 \\ +797 \\ +418 \quad + \\ \hline +2860 \\ \hline \end{array}$$

Opgave 19:

Doe de volgende vermenigvuldigingen en delingen met de hand. Controleer je antwoord met de rekenmachine.

a 1734×51

b $1734/51$

c $23,56 \times 3,1$

d $23,56/3,1$

e $1,23 \times -0,05$

f $1,23/-0,05$

a 88434

b 34

c 73,036

d 7,6

e -0,0615

f -24,6

Oplossing:

a 1734×51

$$\begin{array}{r} 1734 \\ \quad 51 \times \\ \hline 1734 \\ 86700 + \\ \hline 88434 \end{array}$$

c $23,56 \times 3,1 = 73,036$

$$\begin{array}{r} 2356 \\ \quad 31 \\ \hline 2356 \\ 70680 \\ \hline 73,036 \end{array}$$

e $1,23 \times -0,05$

$$\begin{array}{r} 123 \\ \quad 5 \times \\ \hline 615 \end{array}$$

$\Rightarrow 615,0$

$-0,0615$

b $1734/51$

$$\begin{array}{r} 51 \overline{) 1734} \quad | 34 \\ \underline{153} \\ 204 \\ \underline{204} \\ 000 \end{array}$$

$\Rightarrow \boxed{1734/51 = 34}$

d $23,56/3,1 \times 100$
 $= 2356/310$

$$\begin{array}{r} 310 \overline{) 2356} \quad | 7,6 \\ \underline{2170} \\ 1860 \\ \underline{1860} \\ 0 \end{array}$$

$\Rightarrow \boxed{23,56/3,1 = 7,6}$

f $1,23/-0,05 \times 100$

$= 123/-5$

$$\begin{array}{r} 5 \overline{) 123} \quad | 24,6 \\ \underline{10} \\ 23 \\ \underline{20} \\ 30 \\ \underline{30} \\ 0 \end{array}$$

$\Rightarrow \boxed{24,6}$

Opgave 20:

Bereken met de hand en controleer je antwoord achteraf met de rekenmachine.

a $1645 \times -97/25$

a -6382,6

b $1645/-35 \times -418$

b 19646

c $112,6 \times 52/2,6$

c 2252

d $150/1,25/-32$

d -3,75

Oplossing:

a $1645 \times -97/25$

$$\begin{array}{r} 1645 \\ -97 \quad \times \\ \hline 11515 \\ 148050 \quad + \\ \hline -159565 \end{array}$$

①

$$\boxed{-159565}$$

$-159565/25$

$25/159565 | 6382,6$

$$\begin{array}{r} 150 \\ \hline 95 \\ -75 \\ \hline 206 \\ -200 \\ \hline 65 \\ -50 \\ \hline 150 \\ 150 \\ \hline 0 \end{array}$$

②

$$\boxed{6382,6}$$

b $1645/-35 \times -418$

①

$$\begin{array}{r} 35 \overline{) 1645} \quad | \quad 47 \\ -140 \\ \hline 245 \\ 245 \\ \hline 0 \end{array}$$

②

$$\boxed{= -47}$$

-47×-418

$$\begin{array}{r} -418 \\ -47 \quad \times \\ \hline 2926 \end{array}$$

$16720 +$

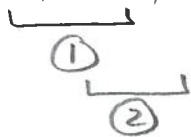
$+19646$

$-x - = \neq$

②

$$\boxed{19646}$$

c $112,6 \times 52 / 2,6$



$$\begin{array}{r}
 112,6 \\
 \times 52 \\
 \hline
 2252 \\
 56300 \\
 \hline
 5855,2
 \end{array}$$

①

5855,2

$$5855,2 / 2,6 \quad \times 10$$

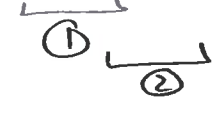
$$58552 / 26$$

$$\begin{array}{r}
 26 \overline{) 58552} \quad | \quad 2252 \\
 \underline{52} \\
 65 \\
 \underline{52} \\
 135 \\
 \underline{130} \\
 52 \\
 \underline{52} \\
 0
 \end{array}$$

②

2252

d $150 / 1,25 / -32$



$$150 / 1,25 \quad \times 100$$

$$1500 / 125$$

$$\begin{array}{r}
 125 \overline{) 1500} \quad | \quad 12 \\
 \underline{125} \\
 250 \\
 \underline{250} \\
 0
 \end{array}$$

①

12

$$12 / -32$$

$$\begin{array}{r}
 32 \overline{) 120} \quad | \quad 0,375 \\
 \underline{96} \\
 240 \\
 \underline{224} \\
 160 \\
 \underline{160} \\
 0
 \end{array}$$

②

-0,375