

# Gr 5 - 7 Bemeester Vermenigvuldiging | Deel 4

**Slegs Gr 5 – 7 leerders moet van hier voortgaan.**

**Vraag 1 | 3-syfergetalle × 1-syfergetalle [“Opbreek” Metode]**

1. Bestudeer:	$\begin{aligned} \text{a) } 2 \times 300 &= 2 \times 3 \times 100 \\ &= 6 \times 100 \\ &= 600 \end{aligned}$	$\begin{aligned} \text{b) } 8 \times 400 &= 8 \times 4 \times 100 \\ &= 32 \times 100 \\ &= 3\,200 \end{aligned}$
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2. Voltooi:
- a)  $400 \times 2 = \dots\dots\dots$     b)  $200 \times 3 = \dots\dots\dots$     c)  $500 \times 4 = \dots\dots\dots$     d)  $800 \times 5 = \dots\dots\dots$
- $300 \times 3 = \dots\dots\dots$      $300 \times 5 = \dots\dots\dots$      $400 \times 7 = \dots\dots\dots$      $900 \times 8 = \dots\dots\dots$

3. Skryf in uitgebreide-vorm:
- a)  $342 = 300 + 40 + 2$     b)  $583 = \dots\dots\dots + \dots\dots + \dots\dots$     c)  $746 = \dots\dots\dots + \dots\dots + \dots\dots$

4. Voltooi:

$\begin{array}{r} \text{a) } 425 \quad (400 + 20 + 5) \\ \times 3 \quad ( \quad \quad 3) \\ \hline 15 \quad (3 \times 5) \\ \hline 60 \quad (3 \times 20) \\ \hline + 1200 \quad (3 \times 400) \\ \hline 1275 \end{array}$	$\begin{array}{r} \text{b) } 384 \\ \times 2 \\ \hline \\ \hline \\ \hline \\ \hline \end{array}$	$\begin{array}{r} \text{c) } 528 \\ \times 3 \\ \hline \\ \hline \\ \hline \\ \hline \end{array}$	$\begin{array}{r} \text{d) } 736 \\ \times 4 \\ \hline \\ \hline \\ \hline \\ \hline \end{array}$
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5. Voltooi:

$\begin{array}{r} \text{a) } 537 \quad (500 + 30 + 7) \\ \times 6 \quad ( \quad \quad 6) \\ \hline 142 \quad (6 \times 7) \\ \hline 180 \quad (6 \times 30) \\ \hline + 3000 \quad (6 \times 500) \\ \hline 3222 \end{array}$	$\begin{array}{r} \text{b) } 679 \\ \times 4 \\ \hline \\ \hline \\ \hline \\ \hline \end{array}$	$\begin{array}{r} \text{c) } 384 \\ \times 6 \\ \hline \\ \hline \\ \hline \\ \hline \end{array}$	$\begin{array}{r} \text{d) } 769 \\ \times 8 \\ \hline \\ \hline \\ \hline \\ \hline \end{array}$
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**Vraag 2 | 3-syfergetalle × 1-syfergetalle: Deel 1**

["Kort" Metode]

1. Voltooi:

$$\begin{array}{r}
 \text{HTE} \\
 \text{a) } 243 \quad (2\text{H} + 4\text{T} + 3\text{E}) \\
 \times 2 \quad ( \quad \quad 2\text{E}) \\
 \hline
 486 \quad (4\text{H} + 8\text{T} + 6\text{E}) \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{HTE} \\
 \text{b) } 334 \\
 \times 2 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{HTE} \\
 \text{c) } 232 \\
 \times 3 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{HTE} \\
 \text{d) } 302 \\
 \times 3 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{HTE} \\
 \text{e) } 234 \\
 \times 2 \\
 \hline
 \hline
 \end{array}$$

2. Bestudeer. **Stap 1:**

$$\begin{array}{r}
 \text{HTE} \\
 2^1 23 \\
 \times 4 \\
 \hline
 2 \\
 \hline
 \end{array}
 \quad
 \begin{array}{l}
 4 \times 3\text{E} = 12 \\
 \text{en} \\
 12 = 1\text{T} + 2\text{E}
 \end{array}$$

**Stap 2:**

$$\begin{array}{r}
 \text{HTE} \\
 2^1 23 \\
 \times 4 \\
 \hline
 92 \\
 \hline
 \end{array}
 \quad
 \begin{array}{l}
 4 \times 2\text{T} = 8\text{T} \\
 \text{en} \\
 8\text{T} + 1\text{T} = 9\text{T}
 \end{array}$$

**Stap 3:**

$$\begin{array}{r}
 \text{HTE} \\
 2^1 23 \\
 \times 4 \\
 \hline
 892 \\
 \hline
 \end{array}
 \quad
 \begin{array}{l}
 4 \times 2\text{H} \\
 = 8\text{H}
 \end{array}$$

3. Voltooi:

$$\begin{array}{r}
 \text{HTE} \\
 \text{a) } 3^1 15 \\
 \times 2 \\
 \hline
 630 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{b) } 326 \\
 \times 3 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{c) } 124 \\
 \times 4 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{HTE} \\
 \text{d) } 2^2 16 \\
 \times 4 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{e) } 215 \\
 \times 4 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{f) } 328 \\
 \times 3 \\
 \hline
 \hline
 \end{array}$$



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4. Bestudeer. **Stap 1:**

$$\begin{array}{r}
 \text{HTE} \\
 3^2 24 \\
 \times 6 \\
 \hline
 4 \\
 \hline
 \end{array}
 \quad
 \begin{array}{l}
 6 \times 4\text{E} = 24 \\
 \text{en} \\
 24 = 2\text{T} + 4\text{E}
 \end{array}$$

**Stap 2:**

$$\begin{array}{r}
 \text{HTE} \\
 13^2 24 \\
 \times 6 \\
 \hline
 44 \\
 \hline
 \end{array}
 \quad
 \begin{array}{l}
 6 \times 2\text{T} = 12\text{T} \\
 12\text{T} + 2\text{T} = 14\text{T} \\
 14\text{T} = 140 \\
 = 1\text{H} + 4\text{T}
 \end{array}$$

**Stap 3:**

$$\begin{array}{r}
 \text{DHTE} \\
 13^1 24 \\
 \times 6 \\
 \hline
 1944 \\
 \hline
 \end{array}
 \quad
 \begin{array}{l}
 6 \times 3\text{H} = 18\text{H} \\
 18\text{H} + 1\text{H} = 19\text{H} \\
 19\text{H} = 1900 \\
 = 1\text{D} + 9\text{H}
 \end{array}$$

5. Voltooi:

$$\begin{array}{r}
 \text{a) } 13^3 28 \\
 \times 4 \\
 \hline
 1312 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{b) } 534 \\
 \times 6 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{c) } 872 \\
 \times 5 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{d) } 5^7 364 \\
 \times 8 \\
 \hline
 6112 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{e) } 746 \\
 \times 7 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{f) } 459 \\
 \times 9 \\
 \hline
 \hline
 \end{array}$$

**Vraag 3** |  $300 \times 20$  en  $600 \times 40$  ens.

HTE D HTE

1. Vermenigvuldig met 10 maak 'n getal 10 keer groter:  $100 \times 10 = 1\ 000$ 2. Voltooi: a)  $200 \times 10 = 2\ 000$  b)  $400 \times 10 = \dots\dots\dots$  c)  $900 \times 10 = \dots\dots\dots$ 3. Voltooi: LW:  $100 \times 10 = 1\ 000$ .

$$\begin{aligned} \text{a) } 300 \times 20 \\ &= 3 \times 2 \times 100 \times 10 \\ &= 6 \times 1\ 000 \\ &= 6\ 000 \end{aligned}$$

$$\begin{aligned} \text{b) } 200 \times 40 \\ &= \dots\dots\dots \\ &= \dots\dots\dots \\ &= \dots\dots\dots \end{aligned}$$

$$\begin{aligned} \text{c) } 200 \times 30 &= \dots\dots\dots \\ \text{d) } 400 \times 20 &= \dots\dots\dots \\ \text{e) } 300 \times 30 &= \dots\dots\dots \end{aligned}$$

4. Voltooi:

$$\begin{aligned} \text{a) } 500 \times 30 \\ &= 5 \times 3 \times 100 \times 10 \\ &= 15 \times 1\ 000 \\ &= 15\ 000 \end{aligned}$$

$$\begin{aligned} \text{b) } 400 \times 60 \\ &= \dots\dots\dots \\ &= \dots\dots\dots \\ &= \dots\dots\dots \end{aligned}$$

$$\begin{aligned} \text{c) } 400 \times 30 &= \dots\dots\dots \\ \text{d) } 700 \times 40 &= \dots\dots\dots \\ \text{e) } 900 \times 50 &= \dots\dots\dots \end{aligned}$$

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5. Voltooi:

$$\begin{aligned} \text{a) } 500 \times 40 \\ &= 5 \times 4 \times 100 \times 10 \\ &= 20 \times 1\ 000 \\ &= 20\ 000 \end{aligned}$$

$$\begin{aligned} \text{b) } 600 \times 50 \\ &= \dots\dots\dots \\ &= \dots\dots\dots \\ &= \dots\dots\dots \end{aligned}$$

$$\begin{aligned} \text{c) } 200 \times 50 &= \dots\dots\dots \\ \text{d) } 500 \times 80 &= \dots\dots\dots \\ \text{e) } 400 \times 50 &= \dots\dots\dots \end{aligned}$$

6. Voltooi:

$$\begin{aligned} \text{a) } 340 \times 20 \\ &= 34 \times 2 \times 10 \times 10 \\ &= 68 \times 100 \\ &= 6\ 800 \end{aligned}$$

$$\begin{aligned} \text{b) } 230 \times 30 \\ &= \dots\dots\dots \\ &= \dots\dots\dots \\ &= \dots\dots\dots \end{aligned}$$

$$\begin{aligned} \text{c) } 110 \times 30 &= \dots\dots\dots \\ \text{d) } 240 \times 20 &= \dots\dots\dots \\ \text{e) } 430 \times 20 &= \dots\dots\dots \end{aligned}$$

7. Voltooi:

$$\begin{aligned} \text{a) } 420 \times 30 \\ &= 42 \times 3 \times 10 \times 10 \\ &= 126 \times 100 \\ &= 12\ 600 \end{aligned}$$

$$\begin{aligned} \text{b) } 650 \times 20 \\ &= \dots\dots\dots \\ &= \dots\dots\dots \\ &= \dots\dots\dots \end{aligned}$$

$$\begin{aligned} \text{c) } 350 \times 60 \\ &= \dots\dots\dots \\ &= \dots\dots\dots \\ &= \dots\dots\dots \end{aligned}$$



**Vraag 5 | 3-syfergetalle × 2-syfergetalle: Deel 2**

**Doen jou bewerkings op 'n aparte vel papier.**

1. Voltooi: [Maklike Vrae]

a)

$$\begin{array}{r} 432 \\ \times 23 \\ \hline 1296 \leftarrow 3 \times 432 \\ \hline 8640 \leftarrow 20 \times 432 \\ \hline 9936 \\ \hline \end{array}$$

b)

$$\begin{array}{r} 314 \\ \times 13 \\ \hline 942 \leftarrow 3 \times 314 \\ \hline 3140 \leftarrow 10 \times 314 \\ \hline 4082 \\ \hline \end{array}$$

c)  $423 \times 21 = \dots\dots\dots$

d)  $223 \times 14 = \dots\dots\dots$

e)  $424 \times 13 = \dots\dots\dots$

f)  $224 \times 24 = \dots\dots\dots$

g)  $232 \times 16 = \dots\dots\dots$

h)  $243 \times 32 = \dots\dots\dots$

2. Voltooi: [Uitdagende Vrae]

a)

$$\begin{array}{r} 476 \\ \times 42 \\ \hline 952 \leftarrow 2 \times 476 \\ \hline 19040 \leftarrow 40 \times 476 \\ \hline 19992 \\ \hline \end{array}$$

b)

$$\begin{array}{r} 876 \\ \times 64 \\ \hline 3504 \leftarrow 4 \times 876 \\ \hline 52560 \leftarrow 60 \times 876 \\ \hline 56064 \\ \hline \end{array}$$

c)  $274 \times 53 = \dots\dots\dots$

d)  $482 \times 39 = \dots\dots\dots$

e)  $497 \times 35 = \dots\dots\dots$

f)  $423 \times 78 = \dots\dots\dots$

g)  $548 \times 63 = \dots\dots\dots$

h)  $763 \times 89 = \dots\dots\dots$

3. Bereken hoeveel bome daar is in 125 rye met 28 bome in elke ry.

.....

4. 'n Kruidenier verkoop 'n vrugte en groente pakket vir R279.

Hoeveel sal 45 pakkette altesaam kos? .....

5. Daar is 352 kiwis in 'n krat.

Hoeveel kiwis is daar in 'n dosyn van dieselfde kratte?

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