

Gr 5 - 7 Bemeester Vermenigvuldiging | Deel 4 Memo

Slegs Gr 5 – 7 leerders moet van hier voortgaan.

Vraag 1 | 3-syfergetalle × 1-syfergetalle

["Opbreek" Metode]

1. Bestudeer:

$$\begin{aligned} \text{a) } 2 \times 300 &= 2 \times 3 \times 100 \\ &= 6 \times 100 \\ &= 600 \end{aligned}$$

$$\begin{aligned} \text{b) } 8 \times 400 &= 8 \times 4 \times 100 \\ &= 32 \times 100 \\ &= 3\,200 \end{aligned}$$

2. Voltooi:

a) $400 \times 2 = 800$ b) $200 \times 3 = 600$ c) $500 \times 4 = 2\,000$ d) $800 \times 5 = 4\,000$

$300 \times 3 = 900$ $300 \times 5 = 1\,500$ $400 \times 7 = 2\,800$ $900 \times 8 = 7\,200$

3. Skryf in uitgebreide-vorm:

a) $342 = 300 + 40 + 2$ b) $583 = 500 + 80 + 3$ c) $746 = 700 + 40 + 6$

4. Voltooi:

a) $425 \quad (400 + 20 + 5)$

$\times 3 \quad (\quad 3)$

$15 \quad (3 \times 5)$

$60 \quad (3 \times 20)$

$+ 1200 \quad (3 \times 400)$

1275

b) 384

$\times 2$

$8 \quad (2 \times 4)$

$160 \quad (2 \times 80)$

$+ 600 \quad (2 \times 300)$

768

c) 528

$\times 3$

$24 \quad (3 \times 8)$

$60 \quad (3 \times 20)$

$+ 1500 \quad (3 \times 500)$

1584

d) 736

$\times 4$

$24 \quad (4 \times 6)$

$120 \quad (4 \times 60)$

$+ 2800 \quad (4 \times 700)$

2944



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5. Voltooi:

a) $537 \quad (500 + 30 + 7)$

$\times 6 \quad (\quad 6)$

$1\,42 \quad (6 \times 7)$

$180 \quad (6 \times 30)$

$+ 3000 \quad (6 \times 500)$

3222

b) 679

$\times 4$

$1\,36 \quad (4 \times 9)$

$280 \quad (4 \times 70)$

$+ 2400 \quad (4 \times 600)$

2716

c) 384

$\times 6$

$1\,24 \quad (6 \times 4)$

$1\,480 \quad (6 \times 80)$

$+ 1800 \quad (6 \times 300)$

2304

d) 769

$\times 8$

$1\,72 \quad (8 \times 9)$

$1\,480 \quad (8 \times 60)$

$+ 5600 \quad (8 \times 700)$

6152

Vraag 2 | 3-syfergetalle × 1-syfergetalle: Deel 1

["Kort" Metode]

1. Voltooi:

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

$$\begin{array}{r}
 \text{HTE} \\
 \text{b) } 334 \\
 \times 2 \\
 \hline
 668 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{HTE} \\
 \text{c) } 232 \\
 \times 3 \\
 \hline
 696 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{HTE} \\
 \text{d) } 302 \\
 \times 3 \\
 \hline
 906 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{HTE} \\
 \text{e) } 234 \\
 \times 2 \\
 \hline
 468 \\
 \hline
 \end{array}$$

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:

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

$$\begin{array}{r}
 \text{b) } 3^1 26 \\
 \times 3 \\
 \hline
 978 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{c) } 1^1 24 \\
 \times 4 \\
 \hline
 496 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{HTE} \\
 \text{d) } 2^2 16 \\
 \times 4 \\
 \hline
 864 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{e) } 2^2 15 \\
 \times 4 \\
 \hline
 860 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{f) } 3^2 28 \\
 \times 3 \\
 \hline
 984 \\
 \hline
 \end{array}$$



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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:

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

$$\begin{array}{r}
 \text{b) } 2^5 234 \\
 \times 6 \\
 \hline
 3204 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{c) } 3^8 172 \\
 \times 5 \\
 \hline
 4360 \\
 \hline
 \end{array}$$

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

$$\begin{array}{r}
 \text{e) } 3^7 446 \\
 \times 7 \\
 \hline
 5222 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{f) } 5^4 859 \\
 \times 9 \\
 \hline
 4131 \\
 \hline
 \end{array}$$

Vraag 3 | 300×20 en 600×40 ens.

1. Vermenigvuldig met 10 maak 'n getal 10 keer groter: $100 \times 10 = 1\ 000$

2. Voltooi: a) $200 \times 10 = 2\ 000$ b) $400 \times 10 = 4\ 000$ c) $900 \times 10 = 9\ 000$

3. Voltooi: LW: $100 \times 10 = 1\ 000$.

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

$$\begin{aligned} \text{b) } 200 \times 40 \\ &= 2 \times 4 \times 100 \times 10 \\ &= 8 \times 1\ 000 \\ &= 8\ 000 \end{aligned}$$

$$\text{c) } 200 \times 30 = 6\ 000$$

$$\text{d) } 400 \times 20 = 8\ 000$$

$$\text{e) } 300 \times 30 = 9\ 000$$

4. Voltooi:

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

$$\begin{aligned} \text{b) } 400 \times 60 \\ &= 4 \times 6 \times 100 \times 10 \\ &= 24 \times 1\ 000 \\ &= 24\ 000 \end{aligned}$$

$$\text{c) } 400 \times 30 = 12\ 000$$

$$\text{d) } 700 \times 40 = 28\ 000$$

$$\text{e) } 900 \times 50 = 45\ 000$$



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5. Voltooi:

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

$$\begin{aligned} \text{b) } 600 \times 50 \\ &= 6 \times 5 \times 100 \times 10 \\ &= 30 \times 1\ 000 \\ &= 30\ 000 \end{aligned}$$

$$\text{c) } 200 \times 50 = 10\ 000$$

$$\text{d) } 500 \times 80 = 40\ 000$$

$$\text{e) } 400 \times 50 = 20\ 000$$

6. Voltooi:

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

$$\begin{aligned} \text{b) } 230 \times 30 \\ &= 23 \times 3 \times 10 \times 10 \\ &= 69 \times 100 \\ &= 6\ 900 \end{aligned}$$

$$\text{c) } 110 \times 30 = 3\ 300$$

$$\text{d) } 240 \times 20 = 4\ 800$$

$$\text{e) } 430 \times 20 = 8\ 600$$

7. Voltooi:

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

$$\begin{aligned} \text{b) } 650 \times 20 \\ &= 65 \times 2 \times 10 \times 10 \\ &= 130 \times 100 \\ &= 13\ 000 \end{aligned}$$

$$\begin{aligned} \text{c) } 350 \times 60 \\ &= 35 \times 6 \times 10 \times 10 \\ &= 210 \times 100 \\ &= 21\ 000 \end{aligned}$$

Vraag 4 | 3-syfergetalle × 2-syfergetalle: Deel 1

1. Bestudeer: "Opbreek" Metode

$$\begin{array}{r}
 425 \quad (400 + 20 + 5) \\
 \times 23 \quad (20 + 3) \\
 \hline
 15 \quad (3 \times 5) \\
 \hline
 60 \quad (3 \times 20) \\
 \hline
 1200 \quad (3 \times 400) \\
 \hline
 100 \quad (20 \times 5) \\
 400 \quad (20 \times 20) \\
 + 8000 \quad (20 \times 400) \\
 \hline
 9775
 \end{array}$$

Deel 1 = 1275
Deel 2 = 8500

"Kort" Metode

Deel 1:	Deel 2:
D H T E	D H T E
4 ¹ 25	4 ¹ 25
× 23	× 23
1275 ← 3 × 425	1275 ← 3 × 425
	+ 8500 ← 20 × 425
	9775

2. Voltooi. Gebruik die "opbreek" metode.

a) 328 (300 + 20 + 8)

$$\begin{array}{r}
 328 \\
 \times 34 \quad (30 + 4) \\
 \hline
 32 \quad (4 \times 8) \\
 \hline
 180 \quad (4 \times 20) \\
 \hline
 1200 \quad (4 \times 300) \\
 \hline
 240 \quad (30 \times 8) \\
 \hline
 600 \quad (30 \times 20) \\
 \hline
 + 9000 \quad (30 \times 300) \\
 \hline
 11\,152
 \end{array}$$

b) 438

$$\begin{array}{r}
 438 \\
 \times 23 \\
 \hline
 24 \quad (3 \times 8) \\
 \hline
 90 \quad (3 \times 30) \\
 \hline
 1200 \quad (3 \times 400) \\
 \hline
 160 \quad (20 \times 8) \\
 \hline
 600 \quad (20 \times 30) \\
 \hline
 + 8000 \quad (20 \times 400) \\
 \hline
 10\,074
 \end{array}$$

c) 528

$$\begin{array}{r}
 528 \\
 \times 64 \\
 \hline
 32 \quad (4 \times 8) \\
 \hline
 80 \quad (4 \times 20) \\
 \hline
 2000 \quad (4 \times 500) \\
 \hline
 480 \quad (60 \times 8) \\
 \hline
 1200 \quad (60 \times 20) \\
 \hline
 + 30000 \quad (60 \times 500) \\
 \hline
 33\,792
 \end{array}$$

d) 743

$$\begin{array}{r}
 743 \\
 \times 86 \\
 \hline
 18 \quad (6 \times 3) \\
 \hline
 240 \quad (6 \times 40) \\
 \hline
 4200 \quad (6 \times 700) \\
 \hline
 240 \quad (80 \times 3) \\
 \hline
 3200 \quad (80 \times 40) \\
 \hline
 + 56000 \quad (80 \times 700) \\
 \hline
 63\,898
 \end{array}$$



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3. Voltooi. Gebruik die "kort" metode.

a) 328

$$\begin{array}{r}
 328 \\
 \times 34 \\
 \hline
 1312 \quad [4 \times 328] \\
 \hline
 + 9840 \quad [30 \times 328] \\
 \hline
 11\,152
 \end{array}$$

b) 438

$$\begin{array}{r}
 438 \\
 \times 23 \\
 \hline
 1314 \quad [3 \times 438] \\
 \hline
 + 8760 \quad [20 \times 438] \\
 \hline
 10\,074
 \end{array}$$

c) 528

$$\begin{array}{r}
 528 \\
 \times 64 \\
 \hline
 2112 \quad [4 \times 528] \\
 \hline
 + 31680 \quad [60 \times 528] \\
 \hline
 33\,792
 \end{array}$$

d) 743

$$\begin{array}{r}
 743 \\
 \times 86 \\
 \hline
 4458 \quad [6 \times 743] \\
 \hline
 + 59440 \quad [80 \times 743] \\
 \hline
 63\,898
 \end{array}$$

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) $423 \times 21 = 8883$

d) $223 \times 14 = 3122$

e) $424 \times 13 = 5512$

f) $224 \times 24 = 5376$

g) $232 \times 16 = 3712$

h) $243 \times 32 = 7776$

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) $274 \times 53 = 14\ 522$

d) $482 \times 39 = 18\ 798$

e) $497 \times 35 = 17\ 395$

f) $423 \times 78 = 32\ 994$

g) $548 \times 63 = 34\ 524$

h) $763 \times 89 = 67\ 907$

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

$$125 \times 28 = 3500 \text{ bome}$$

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

Hoeveel sal 45 pakkette altesaam kos? $R279 \times 45 = R12\ 555$

5. Daar is 352 kiwis in 'n krat.

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

$$352 \times 12 = 4224 \text{ kiwis}$$