

Gr 6 - 7 Bemeester Vermenigvuldiging | Deel 5

Slegs Gr 6 – 7 leerders moet van hier voortgaan.

Vraag 1 | 300×200 en 600×400 ens.

1. Bestudeer: Vermenigvuldig met 100 maak 'n getal 100 keer groter.

$$\begin{array}{c} \text{T E} \\ \text{a) } 10 \times 100 = 1\ 000 \end{array}$$

Check: "3 nulle"

$$\begin{array}{c} \text{D H T E} \\ 100 \times 100 = 10\ 000 \end{array}$$

"3 nulle"

$$\begin{array}{c} \text{H T E} \\ \text{b) } 100 \times 100 = 10\ 000 \end{array}$$

Check: "4 nulle"

$$\begin{array}{c} \text{T D D H T E} \\ 1000 \times 1000 = 1\ 000\ 000 \end{array}$$

"4 nulle"

2. Voltooi:

a) $200 \times 100 = 20\ 000$ b) $500 \times 100 = \dots\dots\dots$ c) $800 \times 100 = \dots\dots\dots$

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

$$\begin{aligned} \text{a) } 300 \times 200 \\ &= 3 \times 2 \times 100 \times 100 \\ &= 6 \times 10\ 000 \\ &= 60\ 000 \end{aligned}$$

Check: "4 nulle"

$$\begin{aligned} \text{b) } 200 \times 400 \\ &= \dots\dots\dots \\ &= \dots\dots\dots \\ &= \dots\dots\dots \end{aligned}$$

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

4. Voltooi:

$$\begin{aligned} \text{a) } 500 \times 300 \\ &= 5 \times 3 \times 100 \times 100 \\ &= 15 \times 10\ 000 \\ &= 150\ 000 \end{aligned}$$

Check: "4 nulle"

$$\begin{aligned} \text{b) } 400 \times 600 \\ &= \dots\dots\dots \\ &= \dots\dots\dots \\ &= \dots\dots\dots \end{aligned}$$

$$\begin{aligned} \text{c) } 400 \times 300 &= \dots\dots\dots \\ \text{d) } 700 \times 400 &= \dots\dots\dots \\ \text{e) } 900 \times 500 &= \dots\dots\dots \end{aligned}$$



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5. Voltooi:

$$\begin{aligned} \text{a) } 500 \times 400 \\ &= 5 \times 4 \times 100 \times 100 \\ &= 20 \times 10\ 000 \\ &= 200\ 000 \end{aligned}$$

Check: "5 nulle"

$$\begin{aligned} \text{b) } 600 \times 500 \\ &= \dots\dots\dots \\ &= \dots\dots\dots \\ &= \dots\dots\dots \end{aligned}$$

$$\begin{aligned} \text{c) } 200 \times 500 &= \dots\dots\dots \\ \text{d) } 500 \times 800 &= \dots\dots\dots \\ \text{e) } 400 \times 500 &= \dots\dots\dots \end{aligned}$$

6. Voltooi:

$$\begin{aligned} \text{a) } 340 \times 200 \\ &= 34 \times 2 \times 10 \times 100 \\ &= 68 \times 1\ 000 \\ &= 68\ 000 \end{aligned}$$

$$\begin{aligned} \text{b) } 230 \times 300 \\ &= \dots\dots\dots \\ &= \dots\dots\dots \\ &= \dots\dots\dots \end{aligned}$$

$$\begin{aligned} \text{c) } 110 \times 300 &= \dots\dots\dots \\ \text{d) } 240 \times 200 &= \dots\dots\dots \\ \text{e) } 430 \times 200 &= \dots\dots\dots \end{aligned}$$

Vraag 2 | 3-syfergetalle × 3-syfergetalle: Deel 1 ["Kort" Metode]

1. Bestudeer:

	Deel 1:	Deel 2:	Deel 3:
422 × 643	$\begin{array}{r} 422 \\ \times 643 \\ \hline 1266 \end{array}$ <p style="text-align: center; font-size: small;">← 3 × 422</p>	$\begin{array}{r} 422 \\ \times 643 \\ \hline 1266 \end{array}$ <p style="text-align: center; font-size: small;">← 3 × 422</p>	$\begin{array}{r} 422 \\ \times 643 \\ \hline 1266 \\ \hline 16880 \\ \hline + 253200 \\ \hline 271346 \end{array}$ <p style="text-align: center; font-size: small;">← 3 × 422 ← 40 × 422 ← 600 × 422</p>

2. Voltooi. Gebruik die “kort” metode.

<p>a) 342</p> $\begin{array}{r} 342 \\ \times 232 \\ \hline 684 \end{array}$ <p style="text-align: center; font-size: small;">[2 × 342]</p> <hr style="border-top: 1px dotted black;"/> <p style="text-align: center;">10260</p> <p style="text-align: center; font-size: small;">[30 × 342]</p> <hr style="border-top: 1px dotted black;"/> <p style="text-align: center;">+ 68400</p> <p style="text-align: center; font-size: small;">[200 × 342]</p> <hr style="border-top: 1px dotted black;"/> <p style="text-align: center;">79344</p> <hr style="border-top: 1px dotted black;"/>	<p>b) 432</p> $\begin{array}{r} 432 \\ \times 223 \\ \hline \end{array}$ <hr style="border-top: 1px dotted black;"/> <hr style="border-top: 1px dotted black;"/> <hr style="border-top: 1px dotted black;"/> <hr style="border-top: 1px dotted black;"/>	<p>c) 623</p> $\begin{array}{r} 623 \\ \times 232 \\ \hline \end{array}$ <hr style="border-top: 1px dotted black;"/> <hr style="border-top: 1px dotted black;"/> <hr style="border-top: 1px dotted black;"/> <hr style="border-top: 1px dotted black;"/>	<p>d) 832</p> $\begin{array}{r} 832 \\ \times 323 \\ \hline \end{array}$ <hr style="border-top: 1px dotted black;"/> <hr style="border-top: 1px dotted black;"/> <hr style="border-top: 1px dotted black;"/> <hr style="border-top: 1px dotted black;"/>
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3. Voltooi: Doen jou bewerkings op 'n aparte vel papier.

a) 423 × 211	b) 223 × 142	c) 301 × 847
=	=	=

4. Hoeveel lekkers is daar in 456 bekere as daar 789 lekkers in elk beker is?

.....

5. Koeldrankbottels word verpak in houers wat elk 11 dosyn bottels inhou.
Bereken die aantal bottels wat in 522 van die houers verpak kan word.

.....

Vraag 3 | 3-syfergetalle × 3-syfergetalle: Deel 2 ["Kort" Metode]

1. Bestudeer:	Deel 1:	Deel 2:	Deel 3:
526×748	$\begin{array}{r} 526 \\ \times 748 \\ \hline 4208 \end{array}$ <p>← 8 × 526</p>	$\begin{array}{r} 526 \\ \times 748 \\ \hline 4208 \\ 21040 \end{array}$ <p>← 8 × 526 ← 40 × 526</p>	$\begin{array}{r} 526 \\ \times 748 \\ \hline 4208 \\ 21040 \\ + 368200 \\ \hline 393448 \end{array}$ <p>← 8 × 526 ← 40 × 526 ← 700 × 526</p>

2. Voltooi. Gebruik die "kort" metode.

a) 346	b) 423	c) 629	d) 837
$\times 732$	$\times 628$	$\times 543$	$\times 683$
<hr/>	<hr/>	<hr/>	<hr/>
692 [2 × 346]			
<hr/>	<hr/>	<hr/>	<hr/>
10380 [30 × 346]			
<hr/>	<hr/>	<hr/>	<hr/>
+ 242200 [700 × 346]			
<hr/>	<hr/>	<hr/>	<hr/>
253272			
<hr/>	<hr/>	<hr/>	<hr/>



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3. Voltooi: Doen jou bewerkings op 'n aparte vel papier.

a) 423×269	b) 627×148	c) 467×849
=	=	=

4. 'n Skool koop 758 Play! Wiskunde Boeke teen 'n afslagprys van R105 elk.

Hoeveel kos die boeke in totaal?

5. 'n Boek met 289 bladsye het ongeveer 18 woorde per lyn en 27 lyne per bladsy. Bereken hoeveel:

a) woorde daar ongeveer op 'n bladsy is.

b) woorde daar ongeveer in die hele boek is.



Vraag 4 | 4-syfergetalle × 1-syfergetalle

1. Voltooi:

$$\begin{aligned} \text{a) } & 3 \times 2\,000 \\ & = 3 \times 2 \times 1\,000 \\ & = 6 \times 1\,000 \\ & = 6\,000 \end{aligned}$$

$$\begin{aligned} \text{b) } & 2 \times 4\,000 \\ & = \dots\dots\dots \\ & = \dots\dots\dots \\ & = \dots\dots\dots \end{aligned}$$

$$\begin{aligned} \text{c) } & 4 \times 2\,000 = \dots\dots\dots \\ \text{d) } & 2\,000 \times 3 = \dots\dots\dots \\ \text{e) } & 3\,000 \times 3 = \dots\dots\dots \end{aligned}$$

2. Voltooi:

$$\begin{aligned} \text{a) } & 3 \times 6\,000 \\ & = 3 \times 6 \times 1\,000 \\ & = 18 \times 1\,000 \\ & = 18\,000 \\ & \text{Check: "3 nulle"} \end{aligned}$$

$$\begin{aligned} \text{b) } & 4 \times 7\,000 \\ & = \dots\dots\dots \\ & = \dots\dots\dots \\ & = \dots\dots\dots \end{aligned}$$

$$\begin{aligned} \text{c) } & 5 \times 5\,000 = \dots\dots\dots \\ \text{d) } & 6\,000 \times 7 = \dots\dots\dots \\ \text{e) } & 9\,000 \times 8 = \dots\dots\dots \end{aligned}$$

3. Voltooi:

$$\begin{aligned} \text{a) } & 4 \times 5\,000 \\ & = 4 \times 5 \times 1\,000 \\ & = 20 \times 1\,000 \\ & = 20\,000 \\ & \text{Check: "4 nulle"} \end{aligned}$$

$$\begin{aligned} \text{b) } & 5 \times 6\,000 \\ & = \dots\dots\dots \\ & = \dots\dots\dots \\ & = \dots\dots\dots \end{aligned}$$

$$\begin{aligned} \text{c) } & 2 \times 5\,000 = \dots\dots\dots \\ \text{d) } & 5 \times 8\,000 = \dots\dots\dots \\ \text{e) } & 4 \times 5\,000 = \dots\dots\dots \end{aligned}$$

4. Voltooi:

$$\begin{array}{r} \text{DHTE} \\ \text{a) } 1243 \\ \times 2 \\ \hline 2486 \\ \hline \end{array}$$

$$\begin{array}{r} \text{DHTE} \\ \text{b) } 2334 \\ \times 2 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{TD D H T E} \\ \text{c) } 6232 \\ \times 3 \\ \hline 18696 \\ \hline \end{array}$$

$$\begin{array}{r} \text{TD D H T E} \\ \text{d) } 7122 \\ \times 3 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{TD D H T E} \\ \text{e) } 9234 \\ \times 2 \\ \hline \\ \hline \end{array}$$

(2D + 4H + 8T + 6E)

5. Voltooi:

$$\begin{array}{r} \text{a) } 1^1 2^1 43 \\ \times 4 \\ \hline 4972 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b) } 2334 \\ \times 3 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{c) } 6232 \\ \times 5 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{d) } 7122 \\ \times 6 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{e) } 9234 \\ \times 4 \\ \hline \\ \hline \end{array}$$

6. Voltooi:

$$\begin{array}{r} \text{a) } 1^3 5^2 4^1 76 \\ \times 7 \\ \hline 22932 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b) } 8467 \\ \times 5 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{c) } 2538 \\ \times 6 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{d) } 6327 \\ \times 8 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{e) } 9637 \\ \times 9 \\ \hline \\ \hline \end{array}$$

Vraag 5 | 3000×20 en 3000×200 ens.

1. Bestudeer:

$$\begin{array}{c} \text{D H T E} \\ \text{a) } 1\ 000 \times 10 = 10\ 000 \\ \text{Check: "4 nulle"} \end{array}$$

$$\text{T D D H T E}$$

$$\text{"4 nulle"}$$

$$\begin{array}{c} \text{D H T E} \\ \text{b) } 1\ 000 \times 100 = 100\ 000 \\ \text{Check: "5 nulle"} \end{array}$$

$$\text{H D T D D H T E}$$

$$\text{"5 nulle"}$$

2. Voltooi:

$$\text{a) } 2\ 000 \times 10 = 20\ 000 \quad \text{b) } 5\ 000 \times 10 = \dots\dots\dots \quad \text{c) } 8\ 000 \times 10 = \dots\dots\dots$$

$$2\ 000 \times 100 = 200\ 000 \quad 5\ 000 \times 100 = \dots\dots\dots \quad 8\ 000 \times 100 = \dots\dots\dots$$

3. Bestudeer:

$$\begin{array}{l} \text{a) } 3\ 000 \times 20 \\ = 3 \times 2 \times 1000 \times 10 \\ = 6 \times 10\ 000 \\ = 60\ 000 \text{ Check: "4 nulle"} \end{array}$$

$$\begin{array}{l} \text{b) } 3\ 000 \times 200 \\ = 3 \times 2 \times 1000 \times 100 \\ = 6 \times 100\ 000 \\ = 600\ 000 \text{ Check: "5 nulle"} \end{array}$$

4. Voltooi:

$$\text{a) } 4\ 000 \times 20 = 80\ 000 \quad \text{b) } 3\ 000 \times 30 = \dots\dots\dots \quad \text{c) } 2\ 000 \times 30 = \dots\dots\dots$$

$$4\ 000 \times 200 = 800\ 000 \quad 3\ 000 \times 300 = \dots\dots\dots \quad 2\ 000 \times 300 = \dots\dots\dots$$

5. Bestudeer:

$$\begin{array}{l} \text{a) } 4\ 000 \times 30 \\ = 4 \times 3 \times 1000 \times 10 \\ = 12 \times 10\ 000 \\ = 120\ 000 \text{ Check: "4 nulle"} \end{array}$$

$$\begin{array}{l} \text{b) } 4\ 000 \times 300 \\ = 4 \times 3 \times 1000 \times 100 \\ = 12 \times 100\ 000 \\ = 1\ 200\ 000 \text{ Check: "5 nulle"} \end{array}$$

6. Voltooi:

$$\text{a) } 3\ 000 \times 50 = 150\ 000 \quad \text{b) } 8\ 000 \times 40 = \dots\dots\dots \quad \text{c) } 5\ 000 \times 90 = \dots\dots\dots$$

$$3\ 000 \times 500 = 1\ 500\ 000 \quad 8\ 000 \times 400 = \dots\dots\dots \quad 5\ 000 \times 900 = \dots\dots\dots$$



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7. Bestudeer:

$$\begin{array}{l} \text{a) } 4\ 000 \times 50 \\ = 4 \times 5 \times 1000 \times 10 \\ = 20 \times 10\ 000 \\ = 200\ 000 \text{ Check: "5 nulle"} \end{array}$$

$$\begin{array}{l} \text{b) } 4\ 000 \times 500 \\ = 4 \times 5 \times 1000 \times 100 \\ = 20 \times 100\ 000 \\ = 2\ 000\ 000 \text{ Check: "6 nulle"} \end{array}$$

$$\text{a) } 5\ 000 \times 20 = 100\ 000 \quad \text{b) } 8\ 000 \times 50 = \dots\dots\dots \quad \text{c) } 5\ 000 \times 60 = \dots\dots\dots$$

$$5\ 000 \times 200 = 2\ 000\ 000 \quad 8\ 000 \times 500 = \dots\dots\dots \quad 5\ 000 \times 600 = \dots\dots\dots$$

Vraag 6 | 4-syfergetalle × 2-syfergetalle

["Kort" Metode]

1. Bestudeer: 4526×43

Deel 1:

$$\begin{array}{r}
 1 1 \\
 4526 \\
 \times 43 \\
 \hline
 13578 \leftarrow 3 \times 4526 \\
 \hline
 \hline
 \hline
 \end{array}$$

Deel 2:

$$\begin{array}{r}
 2 1 2 \\
 4526 \\
 \times 43 \\
 \hline
 13578 \leftarrow 3 \times 4526 \\
 + 181040 \leftarrow 40 \times 4526 \\
 \hline
 194618 \\
 \hline
 \hline
 \hline
 \end{array}$$

2. Voltooi:

a) 2346

$\times 32$

$$\begin{array}{r}
 \hline
 4692 \quad [2 \times 2346] \\
 \hline
 + 70380 \quad [30 \times 2346] \\
 \hline
 75072 \\
 \hline
 \hline
 \end{array}$$

b) 2432

$\times 43$

$$\begin{array}{r}
 \hline
 \hline
 \hline
 \hline
 \hline
 \hline
 \end{array}$$

c) 3625

$\times 64$

$$\begin{array}{r}
 \hline
 \hline
 \hline
 \hline
 \hline
 \hline
 \end{array}$$

d) 6374

$\times 78$

$$\begin{array}{r}
 \hline
 \hline
 \hline
 \hline
 \hline
 \hline
 \end{array}$$



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3. Voltooi: Doen jou bewerkings op 'n aparte vel papier.

a) 1423×21

=

b) 4527×43

=

c) 7084×96

=

4. 'n Fabriek verpak maandeliks 235 houers met 18 batterye in elk.

Hoeveel batterye verpak die fabriek altesaam:

a) per maand?

b) per jaar?

c) in 2 jare?

