

Gr 3 - 7 Bemeester Vermenigvuldiging | Deel 2

Alle leerders moet van hier voortgaan

Vraag 1 | 2-syfergetalle \times 1-syfergetalle

[12 \times 3 ens.]

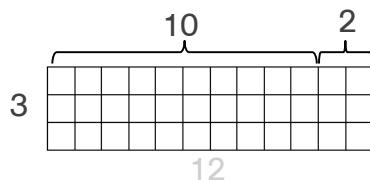
1. Bestudeer: 12×3 beteken "12 dries". Dit is gelyk aan "3 twaalfs" of 3×12 .

Bestudeer die Vertikale-kolom metode:

Vermenigvuldig die ene-syfers eerste.

$$\begin{array}{r}
 12 \quad (10 + 2) \\
 \times 3 \quad (\quad 3) \\
 \hline
 6 \quad (3 \times 2) \\
 + 30 \quad (3 \times 10) \\
 \hline
 36
 \end{array}$$

Dink:



Stap 1: $12 = 10 + 2$.

Stap 2: Vermenigvuldig 2 en 10 met 3.

Stap 3: Tel op om die antwoord te kry.

2. Skryf in uitgebreide-vorm: a) $13 = 10 + 3$ b) $16 = \dots + \dots$ c) $19 = \dots + \dots$

3. Voltooi: Gebruik die vertikale-kolom metode. Vermenigvuldig die ene-syfers eerste.

a) $16 \quad (10 + 6)$

$$\begin{array}{r} \times 2 \quad (\quad 2) \\ \hline \end{array}$$

$$\begin{array}{r} 12 \quad (2 \times 6) \\ \hline \end{array}$$

$$\begin{array}{r} + 20 \quad (2 \times 10) \\ \hline \end{array}$$

$$\begin{array}{r} 32 \\ \hline \end{array}$$

b) $14 \quad \times 2$

c) $13 \quad \times 3$

d) $13 \quad \times 4$

e) $15 \quad \times 3$



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g) $17 \quad (10 + 7)$

$$\begin{array}{r} \times 4 \quad (\quad 4) \\ \hline \end{array}$$

$$\begin{array}{r} 28 \quad (4 \times 7) \\ \hline \end{array}$$

$$\begin{array}{r} + 40 \quad (4 \times 10) \\ \hline \end{array}$$

$$\begin{array}{r} 68 \\ \hline \end{array}$$

h) $18 \quad \times 3$

i) $13 \quad \times 7$

j) $17 \quad \times 6$

k) $15 \quad \times 7$

l) $14 \quad \times 9$

$$\begin{array}{r} 42 \\ \hline \end{array}$$

$$\begin{array}{r} + 60 \\ \hline \end{array}$$

$$\begin{array}{r} 102 \\ \hline \end{array}$$

Vraag 2 | ×20 tot ×29: Deel 1

1. Bestudeer: Ons tel in twintigs:

20 , 40 , 60 , 80 , 100, 120, 140 ...

Hierdie getalle is veelvoude van 20.

Die derde veelvoud van 20 is 60:

- $20 + 20 + 20 = 60$
- 3 twintigs = 60
- $3 \times 20 = 60$

2. Vul die eerste tien veelvoude van 20 in. Tel in twintigs.

	1	2	3	4	5	6	7	8	9	10
× 20	20	40								200

3. Voltooi die tabel.

	Herhaalde optelling	In woorde	× vorm	Antwoord
a)	$20 + 20$	2 twintigs	2×20	40
b)	$20 + 20 + 20$			
c)	$20 + 20 + 20 + 20$			



4. Om 4 met 20 te maal dink aan 20 as 2×10 :

$$\begin{aligned} 4 \times 20 &= 4 \times 2 \times 10 \\ &= 8 \times 10 \\ &= 80 \end{aligned}$$

5. Voltooi:

a) $3 \times 2 = 6$	b) $2 \times 2 = \dots$	c) $4 \times 2 = \dots$	d) $20 \times 1 = \dots$
$3 \times 20 = 60$	$2 \times 20 = \dots$	$4 \times 20 = \dots$	$20 \times 2 = \dots$
$20 \times 3 = 60$	$20 \times 2 = \dots$	$20 \times 4 = \dots$	$20 \times 3 = \dots$

6. Skryf in uitgebreide-vorm: a) $23 = 20 + 3$ b) $28 = \dots + \dots$ c) $22 = \dots + \dots$

7. Voltooi: Vermenigvuldig die ene-syfers eerste.

a) $24 (20 + 4)$

$$\begin{array}{r} \times 3 (3) \\ \hline 12 (3 \times 4) \\ \hline + 60 (3 \times 20) \\ \hline 72 \end{array}$$

b) 23

$$\begin{array}{r} \times 2 \\ \hline \end{array}$$

c) 26

$$\begin{array}{r} \times 3 \\ \hline \end{array}$$

d) 26

$$\begin{array}{r} \times 4 \\ \hline 24 \\ + 80 \\ \hline 104 \end{array}$$

e) 29

$$\begin{array}{r} \times 4 \\ \hline \end{array}$$

Vraag 3 | $\times 20$ tot $\times 29$: Deel 2

1. Vul die veelvoude van 20 tussen 100 en 200 in. Tel in twintigs.

	5	6	7	8	9	10
$\times 20$	100	120				200



2. Bestudeer: a) $20 + 20 + 20 + 20 + 20 = 100$

$$\text{dus is } 5 \times 20 = 100$$

$$\begin{aligned} 5 \times 20 &= 5 \times 2 \times 10 \\ &= 10 \times 10 \\ &= 100 \end{aligned}$$

b) $\overbrace{20 + 20 + 20 + 20 + 20 + 20}^{100} = 120$

$$\text{dus is } 6 \times 20 = 120$$

$$\begin{aligned} 6 \times 20 &= 6 \times 2 \times 10 \\ &= 12 \times 10 \\ &= 120 \end{aligned}$$

3. Voltooi:

a) $5 \times 2 = 10$	b) $6 \times 2 = \dots$	c) $8 \times 2 = \dots$	d) $9 \times 2 = \dots$
$5 \times 20 = 100$	$6 \times 20 = \dots$	$8 \times 20 = \dots$	$9 \times 20 = \dots$
$20 \times 5 = 100$	$20 \times 6 = \dots$	$20 \times 8 = \dots$	$20 \times 9 = \dots$



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4. Voltooi: Vermenigvuldig die ene-syfers eerste.

a) $23 (20 + 3)$

$$\begin{array}{r} \times 6 (\quad 6) \\ \hline 18 (6 \times 3) \\ + 120 (6 \times 20) \\ \hline 138 \end{array}$$

b) 23

$$\begin{array}{r} \times 5 \\ \hline \end{array}$$

c) 25

$$\begin{array}{r} \times 6 \\ \hline \end{array}$$

d) 21

$$\begin{array}{r} \times 9 \\ \hline \end{array}$$

e) 28

$$\begin{array}{r} \times 7 \\ \hline \end{array}$$

5. Voltooi:

a) $27 (20 + 7)$

$$\begin{array}{r} \times 8 (\quad 8) \\ \hline 156 (8 \times 7) \\ + 160 (8 \times 20) \\ \hline 216 \end{array}$$

b) 25

$$\begin{array}{r} \times 8 \\ \hline \end{array}$$

c) 23

$$\begin{array}{r} \times 9 \\ \hline \end{array}$$

d) 28

$$\begin{array}{r} \times 8 \\ \hline \end{array}$$

e) 29

$$\begin{array}{r} \times 9 \\ \hline \end{array}$$

Vraag 4 | $\times 30$ tot $\times 90$

1. Vul die eerste tien veelvoude van 30 in. Tel in 30s.

	1	2	3	4	5	6	7	8	9	10
$\times 30$	30	60			150					

2. Voltooi die tabel.

	Herhaalde optelling	In woorde	\times vorm	Antwoord
a)	$30 + 30 + 30$	3 dertigs	3×30	90
b)	$30 + 30$			
c)	$30 + 30 + 30 + 30$			



3. Bestudeer:

$$\begin{aligned} a) \quad 2 \times 30 &= 2 \times 3 \times 10 \\ &= 6 \times 10 \\ &= 60 \end{aligned}$$

$$\begin{aligned} b) \quad 8 \times 30 &= 8 \times 3 \times 10 \\ &= 24 \times 10 \\ &= 240 \end{aligned}$$

4. Voltooi:

$$a) \quad 4 \times 3 = 12 \quad b) \quad 6 \times 3 = \dots \quad c) \quad 9 \times 3 = \dots \quad d) \quad 5 \times 30 = \dots$$

$$4 \times 30 = 120 \quad 6 \times 30 = \dots \quad 9 \times 30 = \dots \quad 30 \times 5 = \dots$$



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5. Vul die eerste tien veelvoude van 50 in. Tel in 50s.

	1	2	3	4	5	6	7	8	9	10
$\times 50$	50	100	150							

6. Bestudeer:

$$\begin{aligned} a) \quad 4 \times 50 &= 4 \times 5 \times 10 \\ &= 20 \times 10 \\ &= 200 \end{aligned}$$

$$\begin{aligned} b) \quad 5 \times 70 &= 5 \times 7 \times 10 \\ &= 35 \times 10 \\ &= 350 \end{aligned}$$

7. Voltooi:

$$a) \quad 3 \times 5 = 15 \quad b) \quad 6 \times 4 = \dots \quad c) \quad 5 \times 8 = \dots \quad d) \quad 6 \times 7 = \dots$$

$$3 \times 50 = 150 \quad 6 \times 40 = \dots \quad 5 \times 80 = \dots \quad 6 \times 70 = \dots$$

$$30 \times 5 = 150 \quad 60 \times 4 = \dots \quad 50 \times 8 = \dots \quad 60 \times 7 = \dots$$

$$5 \times 30 = 150 \quad 4 \times 60 = \dots \quad 8 \times 50 = \dots \quad 7 \times 60 = \dots$$

Vraag 5 | 2-syfergetalle \times 1-syfergetalle[45 \times 7 ens.]1. Skryf in uitgebreide-vorm: a) $34 = 30 + 4$ b) $58 = \dots + \dots$ c) $92 = \dots + \dots$

2. Voltooi: Vermenigvuldig die ene-syfers eerste.

a) 34 ($30 + 4$)

$$\begin{array}{r} \times 3 \\ \hline \end{array}$$

12 (3×4)

$$\begin{array}{r} + 90 \\ \hline \end{array}$$

102

b) 34

$$\begin{array}{r} \times 2 \\ \hline \end{array}$$

c) 49

$$\begin{array}{r} \times 2 \\ \hline \end{array}$$

d) 35

$$\begin{array}{r} \times 3 \\ \hline \end{array}$$

e) 39

$$\begin{array}{r} \times 3 \\ \hline \end{array}$$



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3. Voltooi: Vermenigvuldig die ene-syfers eerste.

a) 46 ($40 + 6$)

$$\begin{array}{r} \times 3 \\ \hline \end{array}$$

18 (3×6)

$$\begin{array}{r} + 120 \\ \hline \end{array}$$

138

b) 62

$$\begin{array}{r} \times 3 \\ \hline \end{array}$$

c) 56

$$\begin{array}{r} \times 4 \\ \hline \end{array}$$

d) 38

$$\begin{array}{r} \times 7 \\ \hline \end{array}$$

e) 98

$$\begin{array}{r} \times 6 \\ \hline \end{array}$$

4. Voltooi:

a) 37 ($30 + 7$)

$$\begin{array}{r} \times 6 \\ \hline \end{array}$$

142 (6×7)

$$\begin{array}{r} + 180 \\ \hline \end{array}$$

222

b) 43

$$\begin{array}{r} \times 7 \\ \hline \end{array}$$

c) 69

$$\begin{array}{r} \times 6 \\ \hline \end{array}$$

d) 89

$$\begin{array}{r} \times 7 \\ \hline \end{array}$$

e) 79

$$\begin{array}{r} \times 8 \\ \hline \end{array}$$

Vraag 6 | "Kort" Vermenigvuldiging: Deel 1

[2-syfer × 1-syfer]

1. Voltooi:

- a) 3×2 ene
= 6 ene b) 2×2 ene
= ene c) 2×4 tiene
= 8 tiene d) 3×3 tiene
= tiene

2. Voltooi:

Vermenigvuldig die ene-syfers eerste.

$$\begin{array}{r}
 \text{T E} \\
 \text{a) } 43 \quad (4\text{T} + 3\text{E}) \\
 \times \quad 2 \\
 \hline
 86 \quad (8\text{T} + 6\text{E})
 \end{array}$$

$$\begin{array}{ccccc}
 \text{b) } & \text{T E} & \text{c) } & \text{T E} & \text{d) } \text{T E} \\
 & 34 & & 24 & 22 \\
 & \times \quad 2 & & \times \quad 2 & \times \quad 3 \\
 \hline & \hline & \hline & \hline & \hline
 \end{array}
 \quad \text{e) } \text{T E} \quad \times \quad 2 \quad \hline$$



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3. Skryf in uitgebreide-vorm:

- a) $12 = 1\text{T} + 2\text{E}$ b) $24 = \dots\text{T} + \dots\text{E}$ c) $45 = \dots\text{T} + \dots\text{E}$ d) $72 = \dots\text{T} + \dots\text{E}$

4. Voltooi:

- | | | | |
|---|---|---|---|
| a) 3×4 ene
= 12 ene
= 1 tien 2 ene | b) 5×3 ene
= ene
= tienene | c) 4×6 ene
= ene
= tienene | d) 8×4 ene
= ene
= tienene |
|---|---|---|---|

5. Bestudeer: Stap 1:

$$\begin{array}{r}
 \text{T E} \\
 \text{1}23 \quad 4 \times 3 \text{ ene} \\
 \times \quad 4 \\
 \hline
 \text{2} \quad = 1 \text{ tien} + 2 \text{ ene}
 \end{array}$$

Stap 2:

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

6. Voltooi:

$$\begin{array}{r}
 \text{T E} \\
 \text{a) } \text{1}24 \\
 \times \quad 4 \\
 \hline
 96
 \end{array}$$

$$\begin{array}{ccccccc}
 \text{b) } & 36 & \text{c) } & 26 & \text{d) } & 216 & \text{e) } 27 \\
 & \times \quad 2 & & \times \quad 3 & & \times \quad 4 & \text{f) } 14 \\
 \hline & \hline & \hline & \hline & \hline & \hline & \hline
 \end{array}$$

Vraag 7a "Kort" Vermenigvuldiging: Deel 2

[2-syfer × 1-syfer]

1. Bestudeer: a) $8 \text{ tiene} + 2 \text{ tiene} = 10 \text{ tiene}$ en $10 \text{ tiene} = 100$ [1H]
b) $8 \text{ tiene} + 4 \text{ tiene} = 12 \text{ tiene}$ en $12 \text{ tiene} = 120$ [1H + 2T]

2. Voltooi: "T" staan vir "tiene".

- a) $7T + 3T = 10T$ b) $9T + 3T = \dots T$ c) $8T + 6T = \dots T$ d) $7T + 6T = \dots T$

3. Bestudeer: Stap 1:

TE

$$\begin{array}{r} 26 \\ \times 4 \\ \hline 102 \end{array} \quad 4 \times 6 \text{ ene} \\ = 24 \text{ ene} \\ = 2 \text{ tiene} + 4 \text{ ene}$$

Stap 2:

HTE

$$\begin{array}{r} 26 \\ \times 4 \\ \hline 102 \end{array} \quad 4 \times 2T = 8T \\ \text{en} \\ 8T + 2T = 10T \quad [100]$$

4. Voltooi:

$$\begin{array}{r} HTE \\ a) 314 \\ \times 8 \\ \hline 112 \end{array}$$

b) 39

$$\begin{array}{r} \times 3 \\ \hline \end{array}$$

c) 25

$$\begin{array}{r} \times 4 \\ \hline \end{array}$$

d) 19

$$\begin{array}{r} \times 7 \\ \hline \end{array}$$

e) 237

$$\begin{array}{r} \times 3 \\ \hline \end{array}$$

f) 18

$$\begin{array}{r} \times 9 \\ \hline \end{array}$$

Stap 2: $8T + 3T = 11T$ 

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**Vraag 7b "Kort" Vermenigvuldiging: Deel 3**

[2-syfer × 1-syfer]

1. Voltooi: "T" staan vir "tiene" en "H" vir "honderde".

- | | | | |
|--|---|---|---|
| a) $3 \times 4 \text{ tiene}$
$= 12 \text{ tiene}$
$= 1H + 2T$ | b) $4 \times 6 \text{ tiene}$
$= \dots \text{ tiene}$
$= \dots H + \dots T$ | c) $7 \times 5 \text{ tiene}$
$= \dots \text{ tiene}$
$= \dots H + \dots T$ | d) $8 \times 9 \text{ tiene}$
$= \dots \text{ tiene}$
$= \dots H + \dots T$ |
|--|---|---|---|

2. Voltooi:

$$\begin{array}{r} HTE \\ a) 42 \\ \times 3 \\ \hline 126 \end{array}$$

$$\begin{array}{r} HTE \\ b) 52 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} HTE \\ c) 63 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} HTE \\ d) 72 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} HTE \\ e) 81 \\ \times 9 \\ \hline \end{array}$$

3. Voltooi: "T" staan vir "tien".

a) $15T + 3T$

$= 18T$

b) $26T + 2T$

$= \dots\dots T$

c) $30T + 8T$

$= \dots\dots T$

d) $63T + 5T$

$= \dots\dots T$

4. Bestudeer:

Stap 1:

$$\begin{array}{r}
 \text{T E} \\
 \textcolor{blue}{1} \textcolor{red}{4} \textcolor{blue}{3} \quad 6 \times 3 \text{ ene} \\
 \times 6 \quad = 18 \text{ ene} \\
 \hline
 \textcolor{green}{8} \quad = \textcolor{blue}{1} \text{ tien} \textcolor{blue}{+} \textcolor{blue}{8} \text{ ene}
 \end{array}$$

Stap 2:

$$\begin{array}{r}
 \text{H T E} \\
 \textcolor{blue}{1} \textcolor{red}{4} \textcolor{blue}{3} \quad 6 \times 4T = 24T \\
 \times 6 \quad \quad \quad \quad \text{en} \\
 \hline
 \textcolor{green}{2} \textcolor{blue}{5} \textcolor{blue}{8} \quad 24T \textcolor{blue}{+} \textcolor{blue}{1}T = 25T \quad [250]
 \end{array}$$

5. Voltooi:

a) $\begin{array}{r} \text{H T E} \\ \textcolor{blue}{2} \textcolor{red}{5} \textcolor{blue}{4} \\ \times 6 \\ \hline \end{array}$

\hline

a)	b) 84	c) 95	d) 58	e) 65	f) 98
$\times 6$	$\times 3$	$\times 4$	$\times 4$	$\times 7$	$\times 7$
\hline	\hline	\hline	\hline	\hline	\hline



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Vraag 8 | "Kort" Vermenigvuldiging: Deel 4

[2-syfer \times 1-syfer]

1. Voltooi: "T" staan vir "tien".

a) $18T + 3T$

$= 21T$

b) $27T + 5T$

$= \dots\dots T$

c) $39T + 5T$

$= \dots\dots T$

d) $72T + 8T$

$= \dots\dots T$

2. Voltooi:

a) $\begin{array}{r} \text{H T E} \\ \textcolor{blue}{3} \textcolor{red}{4} \textcolor{blue}{5} \\ \times 7 \\ \hline \end{array}$

\hline

b) 34	c) 36
$\times 6$	$\times 6$
\hline	\hline

d) 78	e) 36	f) 98
$\times 4$	$\times 9$	$\times 7$
\hline	\hline	\hline

g) $\begin{array}{r} \text{H T E} \\ \textcolor{blue}{5} \textcolor{red}{6} \textcolor{blue}{7} \\ \times 8 \\ \hline \end{array}$

\hline

h) 89	i) 76
$\times 6$	$\times 7$
\hline	\hline

j) 58	k) 78	l) 69
$\times 9$	$\times 8$	$\times 9$
\hline	\hline	\hline

Stap 2: $8 \times 6T = 48T$ en $48T + 5T = 53T$

Vraag 9 | Woordsomme

1. Een liter sap kos R8.
- Die prys van 2 liter sap = $2 \times R8 = R16$.
 - Die prys van 5 liter sap =
 - Die prys van 12 liter sap =

2. Een sakkie tamaties kos R26.

- Die prys van 2 sakkies tamaties =
- Die prys van 4 sakkies tamaties =
- Die prys van 9 sakkies tamaties =



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3. Die volgende items is by die tweedehandse speelgoedwinkel te koop.



- Hoeveel sal 4 boeke kos?
- Hoeveel sal 13 verfborsels kos?
- Hoeveel sal 8 teddiebere kos?
- Hoeveel kleingeld sal ek ontvang as ek vir 5 verfborsels met R50 betaal?
.....
- Hoeveel sal 3 sokkerballe en 2 boeke altesaam kos?
.....

4. Nkosi is vir sewe dae met vakansie. Hy doen 45 “push-ups” elke dag.

Hoeveel “push-ups” doen hy altesaam?

5. ‘n Fabriek maak 78 speelgoed in een dag. Hoeveel speelgoed maak dit in:

- 2 dae? b) 7 dae?