

## Gr 4 - 7 Bemeester Vermenigvuldiging | Deel 3 Memo

Slegs Gr 4 – 7 leerders moet van hier voortgaan.

Vraag 1 |  $\times 10$ 

1. Vul die eerste tien veelvoude van 10 in.

	1	2	3	4	5	6	7	8	9	10
$\times 10$	10	20	30	40	50	60	70	80	90	100

2. Bestudeer: a) 1 honderd = 10 tiene b)  $10 \times 10 = 100$ 3. Vul die veelvoude van 10 tussen 100 en 200 in. *Tel in tiene.*

	10	11	12	13	14	15	16	17	18	19	20
$\times 10$	100	110	120	130	140	150	160	170	180	190	200

4. Om 'n getal met 10 te vermenigvuldig maak dit 10 keer groter.

$$\begin{array}{c} \text{E} \quad \text{TE} \\ \text{a) } 9 \times 10 = 90 \\ \quad \quad \quad 9 \text{ tiene} \end{array}$$

$$\begin{array}{c} \text{TE} \quad \text{HTE} \\ \text{b) } 12 \times 10 = \underline{120} \\ \quad \quad \quad 12 \text{ tiene} \end{array}$$

12 tiene  
= 10 tiene + 2 tiene  
= 1 honderd + 2 tiene

5. Voltooi:

$$\text{a) } 10 \times 10 = 100 \quad \text{b) } 12 \times 10 = \underline{120} \quad \text{c) } 14 \times 10 = \underline{140} \quad \text{d) } 19 \times 10 = \underline{190}$$

$$11 \times 10 = \underline{110} \quad 13 \times 10 = \underline{130} \quad 18 \times 10 = \underline{180} \quad 20 \times 10 = \underline{200}$$

6. Voltooi: a) 2 honderd = 20 tiene b)  $10 \times 20 = \underline{200}$  c)  $20 \times 10 = \underline{200}$ 

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7. Om 'n getal met 10 te vermenigvuldig maak dit 10 keer groter.

$$\begin{array}{c} \text{TE} \quad \text{HTE} \\ \text{a) } 40 \times 10 = \underline{400} \\ \quad \quad \quad 40 \text{ tiene} \end{array}$$

$$\begin{array}{c} \text{TE} \quad \text{HTE} \\ \text{b) } 43 \times 10 = \underline{430} \\ \quad \quad \quad 43 \text{ tiene} \end{array}$$

43 tiene  
= 40 tiene + 3 tiene  
= 4 honderde + 3 tiene

8. Voltooi:

$$\text{a) } 30 \times 10 = 300 \quad \text{b) } 50 \times 10 = \underline{500} \quad \text{c) } 60 \times 10 = \underline{600} \quad \text{d) } 90 \times 10 = \underline{900}$$

$$32 \times 10 = 320 \quad 54 \times 10 = \underline{540} \quad 68 \times 10 = \underline{680} \quad 99 \times 10 = \underline{990}$$

**Vraag 2** |  $20 \times 10$  en  $20 \times 30$  ens.

1. Skryf in verkorte vorm: a)  $2 \times 100 = 200$  b)  $5 \times 100 = 500$  c)  $8 \times 100 = 800$

2. Voltooi: Onthou  $10 \times 10 = 100$ . [Sien bladsy 7]

$$\begin{aligned} \text{a) } 20 \times 10 \\ &= 2 \times 10 \times 10 \\ &= 2 \times 100 \\ &= 200 \end{aligned}$$

$$\begin{aligned} \text{b) } 30 \times 10 \\ &= 3 \times 10 \times 10 \\ &= 3 \times 100 \\ &= 300 \end{aligned}$$

c)  $40 \times 10 = 400$

d)  $70 \times 10 = 700$

e)  $90 \times 10 = 900$

3. Voltooi:

$$\begin{aligned} \text{a) } 20 \times 20 \\ &= 2 \times 10 \times 2 \times 10 \\ &= 4 \times 100 \\ &= 400 \end{aligned}$$

$$\begin{aligned} \text{b) } 30 \times 20 \\ &= 3 \times 10 \times 2 \times 10 \\ &= 6 \times 100 \\ &= 600 \end{aligned}$$

c)  $40 \times 20 = 800$

d)  $20 \times 30 = 600$

e)  $30 \times 30 = 900$



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4. Voltooi:

a)  $12 \times 100 = 1\,200$  b)  $15 \times 100 = 1\,500$  c)  $24 \times 100 = 2\,400$  d)  $35 \times 100 = 3\,500$

5. Voltooi:

$$\begin{aligned} \text{a) } 30 \times 40 \\ &= 3 \times 10 \times 4 \times 10 \\ &= 12 \times 100 \\ &= 1\,200 \end{aligned}$$

$$\begin{aligned} \text{b) } 40 \times 60 \\ &= 4 \times 10 \times 6 \times 10 \\ &= 24 \times 100 \\ &= 2\,400 \end{aligned}$$

c)  $50 \times 30 = 1\,500$

d)  $80 \times 40 = 3\,200$

e)  $70 \times 70 = 4\,900$

6. Voltooi:

a)  $20 \times 100 = 2\,000$  b)  $40 \times 100 = 4\,000$  c)  $70 \times 100 = 7\,000$  d)  $90 \times 100 = 9\,000$

7. Voltooi:

$$\begin{aligned} \text{a) } 40 \times 50 \\ &= 4 \times 10 \times 5 \times 10 \\ &= 20 \times 100 \\ &= 2\,000 \end{aligned}$$

$$\begin{aligned} \text{b) } 50 \times 60 \\ &= 5 \times 10 \times 6 \times 10 \\ &= 30 \times 100 \\ &= 3\,000 \end{aligned}$$

c)  $50 \times 20 = 1\,000$

d)  $60 \times 50 = 3\,000$

e)  $50 \times 80 = 4\,000$

**Vraag 3** |  $12 \times 30$  en  $15 \times 20$  ens.

1. Voltooi:

$$\begin{aligned} \text{a) } 12 \times 30 \\ &= 12 \times 3 \times 10 \\ &= 36 \times 10 \\ &= 360 \end{aligned}$$

$$\begin{aligned} \text{b) } 24 \times 20 \\ &= 24 \times 2 \times 10 \\ &= 48 \times 10 \\ &= 480 \end{aligned}$$

$$\text{c) } 11 \times 40 = 440$$

$$\text{d) } 13 \times 20 = 260$$

$$\text{e) } 34 \times 20 = 680$$

2. Voltooi:

$$\begin{aligned} \text{a) } 15 \times 20 \\ &= 15 \times 2 \times 10 \\ &= 30 \times 10 \\ &= 300 \end{aligned}$$

$$\begin{aligned} \text{b) } 25 \times 20 \\ &= 25 \times 2 \times 10 \\ &= 50 \times 10 \\ &= 500 \end{aligned}$$

$$\begin{aligned} \text{c) } 45 \times 20 \\ &= 45 \times 2 \times 10 \\ &= 90 \times 10 \\ &= 900 \end{aligned}$$

3. Voltooi:

$$\begin{aligned} \text{a) } 15 \times 30 \\ &= 15 \times 3 \times 10 \\ &= 45 \times 10 \\ &= 450 \end{aligned}$$

$$\begin{aligned} \text{b) } 18 \times 20 \\ &= 18 \times 2 \times 10 \\ &= 36 \times 10 \\ &= 360 \end{aligned}$$

$$\text{c) } 19 \times 20 = 380$$

$$\text{d) } 14 \times 30 = 420$$

$$\text{e) } 25 \times 30 = 750$$



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4. Voltooi:

$$\begin{aligned} \text{a) } 53 \times 20 \\ &= 53 \times 2 \times 10 \\ &= 106 \times 10 \\ &= 1060 \end{aligned}$$

$$\begin{aligned} \text{b) } 64 \times 20 \\ &= 64 \times 2 \times 10 \\ &= 128 \times 10 \\ &= 1280 \end{aligned}$$

$$\begin{aligned} \text{c) } 54 \times 20 \\ &= 54 \times 2 \times 10 \\ &= 108 \times 10 \\ &= 1080 \end{aligned}$$

$$\begin{aligned} \text{d) } 71 \times 20 \\ &= 71 \times 2 \times 10 \\ &= 142 \times 10 \\ &= 1420 \end{aligned}$$

5. Voltooi:

$$\begin{aligned} \text{a) } 25 \times 50 \\ &= 25 \times 5 \times 10 \\ &= 125 \times 10 \\ &= 1250 \end{aligned}$$

$$\begin{aligned} \text{b) } 25 \times 40 \\ &= 25 \times 4 \times 10 \\ &= 100 \times 10 \\ &= 1000 \end{aligned}$$

$$\text{c) } 65 \times 20 = 1300$$

$$\text{d) } 35 \times 30 = 1050$$

$$\text{e) } 32 \times 50 = 1600$$

## Vraag 4 | 2-syfergetalle × 2-syfergetalle

[“Opbreek” Metode]

1. Voltooi:

a) $23 = 20 + 3$	b) $24$	c) $35$	d) $32$
$\times 32 = 30 + 2$	$\times 22$	$\times 42$	$\times 53$
<hr/>	<hr/>	<hr/>	<hr/>
6 [2 × 3]	8 [2 × 4]	10 [2 × 5]	6 [3 × 2]
<hr/>	<hr/>	<hr/>	<hr/>
40 [2 × 20]	40 [2 × 20]	60 [2 × 30]	90 [3 × 30]
<hr/>	<hr/>	<hr/>	<hr/>
<sup>1</sup> 90 [30 × 3]	<sup>1</sup> 80 [20 × 4]	200 [40 × 5]	100 [50 × 2]
<hr/>	<hr/>	<hr/>	<hr/>
+ 600 [30 × 20]	+ 400 [20 × 20]	+ 1200 [40 × 30]	+ 1500 [50 × 30]
<hr/>	<hr/>	<hr/>	<hr/>
736	528	1470	1696
<hr/>	<hr/>	<hr/>	<hr/>
e) $43 = 40 + 3$	f) $34$	g) $34$	h) $75$
$\times 56 = 50 + 6$	$\times 72$	$\times 83$	$\times 86$
<hr/>	<hr/>	<hr/>	<hr/>
<sup>1</sup> 18 [6 × 3]	8 [2 × 4]	<sup>1</sup> 12 [3 × 4]	30 [6 × 5]
<hr/>	<hr/>	<hr/>	<hr/>
240 [6 × 40]	<sup>1</sup> 60 [2 × 30]	90 [3 × 30]	420 [6 × 70]
<hr/>	<hr/>	<hr/>	<hr/>
150 [50 × 3]	280 [70 × 4]	320 [80 × 4]	<sup>1</sup> 400 [80 × 5]
<hr/>	<hr/>	<hr/>	<hr/>
+ 2000 [50 × 40]	+ 2100 [70 × 30]	+ 2400 [80 × 30]	+ 5600 [80 × 70]
<hr/>	<hr/>	<hr/>	<hr/>
2408	2448	2822	6450
<hr/>	<hr/>	<hr/>	<hr/>



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i) $67 = 60 + 7$	j) $64$	k) $69$	l) $89$
$\times 48 = 40 + 8$	$\times 48$	$\times 86$	$\times 97$
<hr/>	<hr/>	<hr/>	<hr/>
<sup>2</sup> 56 [8 × 7]	<sup>1</sup> 32 [8 × 4]	<sup>1</sup> 54 [6 × 9]	<sup>1</sup> 63 [7 × 9]
<hr/>	<hr/>	<hr/>	<hr/>
480 [8 × 60]	480 [8 × 60]	360 [6 × 60]	560 [7 × 80]
<hr/>	<hr/>	<hr/>	<hr/>
<sup>1</sup> 280 [40 × 7]	<sup>1</sup> 160 [40 × 4]	<sup>1</sup> 720 [80 × 9]	<sup>1</sup> 810 [90 × 9]
<hr/>	<hr/>	<hr/>	<hr/>
+ 2400 [40 × 60]	+ 2400 [40 × 60]	+ 4800 [80 × 60]	+ 7200 [90 × 80]
<hr/>	<hr/>	<hr/>	<hr/>
3216	3072	5934	8633
<hr/>	<hr/>	<hr/>	<hr/>

**Vraag 5 | 2-syfergetalle × 2-syfergetalle**

**["Kort" Metode]**

1. Bestudeer:  $23 \times 32$

**Deel 1:**  $23 \times 2$

$$\begin{array}{r} 23 \\ \times 32 \\ \hline \end{array}$$

46

**Stap 2:**  
 $2 \times 2T = 4T$

**Stap 1:**  
 $2 \times 3E = 6E$

**Deel 2:**  $23 \times 30 = 23 \times 3 \times 10$

$$\begin{array}{r} 23 \\ \times 32 \\ \hline \end{array}$$

46

$$\begin{array}{r} + 690 \\ \hline 736 \end{array}$$

**Stap 2:**  
Ons het reeds met 10 gemaal.  
 $3 \times 23 = 69$

**Stap 1:**  
 $\times 10$

2. Voltooi. Gebruik die "kort" metode.

a) 23

× 22

1 46 [2 × 23]

+ 460 [20 × 23]

506

b) 32

× 22

1 64 [2 × 32]

+ 640 [20 × 32]

704

c) 24

× 22

1 48 [2 × 24]

+ 480 [20 × 24]

528

d) 32

× 33

1 96 [3 × 32]

+ 960 [30 × 32]

1056

3. Bestudeer:  $43 \times 56$

**Deel 1:**  $43 \times 6$

$$\begin{array}{r} 43 \\ \times 56 \\ \hline \end{array}$$

258

**Stap 2:**  
 $6 \times 4T = 24T$   
en  
 $24T + 1T = 25T$

**Stap 1:**  
 $6 \times 3E = 18E = 1T + 8E$

**Deel 2:**  $43 \times 50 = 43 \times 5 \times 10$

$$\begin{array}{r} 43 \\ \times 56 \\ \hline \end{array}$$

1258

$$\begin{array}{r} + 2150 \\ \hline 2408 \end{array}$$

**Stap 2:**  
Ons het reeds met 10 gemaal.  
 $5 \times 43 = 215$

**Stap 1:**  
 $\times 10$

4. Voltooi. Gebruik die "kort" metode.

a) 52

× 36

312 [6 × 52]

+ 1560 [30 × 52]

1872

b) 48

× 35

240

+ 1440

1680

c) 56

× 37

1 392

+ 1680

2072

d) 43

× 68

1 344

+ 2580

2924

e) 54

× 87

378

+ 4320

4698

## Vraag 6 | Gemengde Vrae en Woordsomme

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

a)  $13 \times 10 = 130$

b)  $25 \times 20 = 500$

c)  $12 \times 12 = 144$

d)  $15 \times 30 = 450$

e)  $13 \times 15 = 195$

f)  $50 \times 40 = 2000$

g)  $68 \times 30 = 2040$

h)  $34 \times 23 = 782$

i)  $60 \times 89 = 5340$

j)  $56 \times 47 = 2632$

k)  $87 \times 76 = 6612$

l)  $96 \times 87 = 8352$

2. Daar is 18 boeke in een boks.

Hoeveel boeke sal daar in 20 sulke bokse wees?  $18 \times 20 = 360$  boeke.

3. Jone vra die terreinpersoneel om 23 rye van 15 stoele elk in die skoolsaal uit te pak. Hoeveel stoele moet in totaal uitepak word?

$$23 \times 15 = 345$$



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4. 'n Sak hoenderkos kos R48. 'n Boer koop 75 sakke.

Hoeveel spandeer hy op die hoenderkos?  $R48 \times 75 = R3600$

5. Adam gebruik 25 liter petrol elke maand.  $1 \text{ jaar} = 12 \text{ maand}$

Hoeveel petrol gebruik hy in 1 jaar?  $25 \text{ liter} \times 12 = 300 \text{ liter}$

6. Die afstand van Junior se huis skool toe is 18km. Hy ry elke skooldag skool toe en terug op sy fiets. Watter afstand ry hy in 4 weke?

$$\text{Skoolweek} = 5 \text{ dae}$$

$$4 \text{ Skool weke} = 4 \times 5 \text{ dae} = 20 \text{ dae}$$



$$\text{Retoerrit} = 36\text{km}$$

$$\text{Totaal afstand} = 36 \times 20 = 720\text{km}$$

Vraag 7 |  $\times 100$  en  $\times 120$  ens.

[Hoofrekene]



1. Bestudeer: Ons tel in 100s:

100 , 200 , 300 , 400 , 500 , 600...

Hierdie getalle is veelvoude van 100.

Die derde veelvoud van 100 is 300:

- $100 + 100 + 100 = 300$
- 3 honderde = 300
- $3 \times 100 = 300$

2. Vul die veelvoude van 100 in. *Tel in 100s.*

	1	2	3	4	5	6	7	8	9	10	11	12
$\times 100$	100	200	300	400	500	600	700	800	900	1 000	1 100	1 200

3. Voltooi die tabel.

	Herhaalde optelling	In woorde	$\times$ vorm	Antwoord
a)	$100 + 100 + 100$	3 honderde	$3 \times 100$	300
b)	$100 + 100$	2 honderde	$2 \times 100$	200
c)	$100 + 100 + 100 + 100$	4 honderde	$4 \times 100$	400

4. Om 'n getal met 100 te vermenigvuldig maak dit 100 keer groter. [ $100 = 10 \times 10$ ]Ons tel nie "twee nulle" by.  $4 + 0 + 0 = 4$  maar  $4 \times 100 = 400$ 

5. Voltooi:

a)  $1 \times 100 = 100$     b)  $5 \times 100 = 500$     c)  $100 \times 4 = 400$     d)  $2 \times 10 \times 10 = 200$   
 $3 \times 100 = 300$      $7 \times 100 = 700$      $100 \times 8 = 800$      $10 \times 10 \times 9 = 900$



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6. Voltooi:

a)  $9 \times 100 = 900$     b)  $12 \times 100 = 1\,200$     c)  $14 \times 10 \times 10 = 1\,400$   
 $10 \times 100 = 1\,000$      $15 \times 100 = 1\,500$      $10 \times 10 \times 19 = 1\,900$

7. Voltooi:

a)  $3 \times 120$   
 $= 3 \times 12 \times 10$   
 $= 36 \times 10$   
 $= 360$

b)  $2 \times 140$   
 $= 2 \times 14 \times 10$   
 $= 28 \times 10$   
 $= 280$

c)  $3 \times 150$   
 $= 3 \times 15 \times 10$   
 $= 45 \times 10$   
 $= 450$

c)  $2 \times 160 = 320$

d)  $150 \times 2 = 300$

e)  $4 \times 120 = 480$

## Vraag 8 | $\times 200$ tot $\times 290$

1. Vul die eerste tien veelvoude van 200 in. *Tel in 200s.*

	1	2	3	4	5	6	7	8	9	10
$\times 200$	200	400	600	800	1 000	1 200	1 400	1 600	1 800	2 000

2. Voltooi die tabel.

	Herhaalde optelling	$\times$ vorm	Antwoord
a)	$200 + 200$	$2 \times 200$	400
b)	$200 + 200 + 200$	$3 \times 200$	600
c)	$200 + 200 + 200 + 200$	$4 \times 200$	800



3. Voltooi:

a)  $3 \times 200 = 600$     b)  $2 \times 200 = 400$     c)  $200 \times 4 = 800$     d)  $200 \times 1 = 200$   
 $200 \times 3 = 600$      $200 \times 2 = 400$      $20 \times 40 = 800$      $200 \times 10 = 2000$

4. Voltooi:

a)  $6 \times 200$   
 $= 6 \times 2 \times 100$   
 $= 12 \times 100$   
 $= 1 200$

b)  $8 \times 200$   
 $= 8 \times 2 \times 100$   
 $= 16 \times 100$   
 $= 1 600$

c)  $5 \times 200 = 1 000$   
d)  $200 \times 7 = 1 400$   
e)  $9 \times 200 = 1 800$



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5. Voltooi:

a)  $3 \times 210$   
 $= 3 \times 21 \times 10$   
 $= 63 \times 10$   
 $= 630$

b)  $2 \times 240$   
 $= 2 \times 24 \times 10$   
 $= 48 \times 10$   
 $= 480$

c)  $3 \times 230$   
 $= 3 \times 23 \times 10$   
 $= 69 \times 10$   
 $= 690$

c)  $2 \times 230 = 460$   
d)  $210 \times 4 = 840$   
e)  $3 \times 220 = 660$

6. Voltooi:

a)  $2 \times 260$   
 $= 2 \times 26 \times 10$   
 $= 52 \times 10$   
 $= 520$

b)  $2 \times 250$   
 $= 2 \times 25 \times 10$   
 $= 50 \times 10$   
 $= 500$

c)  $4 \times 230$   
 $= 4 \times 23 \times 10$   
 $= 92 \times 10$   
 $= 920$

c)  $3 \times 240 = 720$   
d)  $280 \times 2 = 560$   
e)  $4 \times 240 = 960$

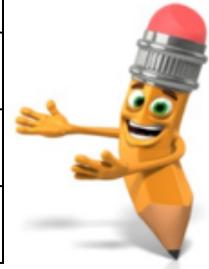
## Vraag 9 | $\times 300$ tot $\times 900$

1. Vul die eerste tien veelvoude van 300 in. *Tel in 300s.*

	1	2	3	4	5	6	7	8	9	10
$\times 300$	300	600	900	1 200	1 500	1 500	2 100	2 100	2 700	3 000

2. Voltooi die tabel.

	Herhaalde optelling	$\times$ vorm	Antwoord
a)	$300 + 300$	$2 \times 300$	600
b)	$300 + 300 + 300$	$3 \times 300$	600
c)	$300 + 300 + 300 + 300$	$4 \times 300$	1 200



3. Voltooi:

$$\begin{aligned} \text{a) } 4 \times 300 \\ &= 4 \times 3 \times 100 \\ &= 12 \times 100 \\ &= 1\,200 \end{aligned}$$

$$\begin{aligned} \text{b) } 7 \times 300 \\ &= 7 \times 3 \times 100 \\ &= 21 \times 100 \\ &= 2\,100 \end{aligned}$$

$$\begin{aligned} \text{c) } 2 \times 300 &= 600 \\ \text{d) } 300 \times 5 &= 1\,500 \\ \text{e) } 9 \times 300 &= 2\,700 \end{aligned}$$



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4. Voltooi:

$$\begin{aligned} \text{a) } 6 \times 400 \\ &= 6 \times 4 \times 100 \\ &= 24 \times 100 \\ &= 2\,400 \end{aligned}$$

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

$$\begin{aligned} \text{c) } 2 \times 400 &= 800 \\ \text{d) } 300 \times 4 &= 1\,200 \\ \text{e) } 9 \times 400 &= 3\,600 \end{aligned}$$

5. Voltooi:

$$\begin{aligned} \text{a) } 4 \times 500 \\ &= 4 \times 5 \times 100 \\ &= 20 \times 100 \\ &= 2\,000 \end{aligned}$$

$$\begin{aligned} \text{b) } 5 \times 600 \\ &= 5 \times 6 \times 100 \\ &= 30 \times 100 \\ &= 3\,000 \end{aligned}$$

$$\begin{aligned} \text{c) } 2 \times 500 &= 1\,000 \\ \text{d) } 400 \times 5 &= 2\,000 \\ \text{e) } 8 \times 500 &= 4\,000 \end{aligned}$$

6. Voltooi:

$$\begin{aligned} \text{a) } 3 \times 600 &= 1\,800 & \text{b) } 8 \times 600 &= 4\,800 & \text{c) } 200 \times 4 &= 800 & \text{d) } 800 \times 7 &= 5\,600 \\ 6 \times 700 &= 4\,200 & 9 \times 700 &= 6\,300 & 40 \times 20 &= 800 & 80 \times 70 &= 5\,600 \end{aligned}$$