

# **Graad 5 – Boek B**

*Onderwysershandleiding*

**(KABV uitgawe)**

**Hersien vir 2023**

## **INHOUD:**

	<u>Bladsy:</u>
B1. Breuke	3
B2. Desimale Breuke	31
B3. Geld	43
B4. 2D- en 3D-Vorms	55
B5. Meting	67
B6. Verhouding en Koers	99
B7. Data	103
B8. Omtrek, Oppervlakte en Volume	111
B9. Temperatuur	119
B10. Waarskynlikheid	123

Hierdie boek is opgestel en verwerk deur E. Language in 2019 in samewerking met EJ du Toit.

**E-pos:** [info@abcbooks.co.za](mailto:info@abcbooks.co.za)

Kopiereg © 2013. Alle kopiereg word voorbehou. Geen deel van hierdie publikasie mag in enige vorm gereproduseer word nie; tensy skriftelike toestemming daarvoor verkry is.

ISBN 978-1-919957-42-5

**Besoek [www.abcmathsandscience.co.za](http://www.abcmathsandscience.co.za) vir gratis  
aflaibare werkkaarte en vele meer!**



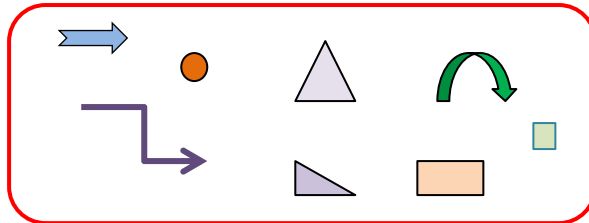
# Hoofstuk B1

## Breuke

Oefening 1:

Datum: \_\_\_\_\_

(1) Beantwoord die vrae.



- |  |               |
|--|---------------|
| (a) Hoeveel elemente is daar in die blok?                              | 8             |
| (b) Hoeveel elemente is pyle?  | 3             |
| (c) Watter breukdeel van die elemente is pyle?                         | $\frac{3}{8}$ |
| (d) Watter breukdeel van die elemente is nie pyle nie?                 | $\frac{5}{8}$ |
| (e) Watter breukdeel is vierhoeke?                                     | $\frac{2}{8}$ |
| (f) Watter breukdeel is nie vierhoeke nie?                             | $\frac{6}{8}$ |
| (g) Watter breukdeel is driehoeke?                                     | $\frac{2}{8}$ |
| (h) Watter breukdeel is nie driehoeke nie?                             | $\frac{6}{8}$ |
| (i) Watter breukdeel van die elemente is sirkels?                      | $\frac{1}{8}$ |
| (j) Watter breukdeel van die elemente is nie sirkels of driehoeke nie? | $\frac{5}{8}$ |

(2) Watter breukdeel is ingekleur en watter breukdeel is nie ingekleur nie?

	BREUKDEEL INGEKLEUR	BREUKDEEL NIE INGEKLEUR NIE
(a)	$\frac{2}{3}$	$\frac{1}{3}$
(b)	$\frac{3}{4}$	$\frac{1}{4}$
(c)	$\frac{3}{6}$	$\frac{3}{6}$
(d)	$\frac{12}{4}$	$\frac{0}{4}$

## VERMENIGVULDIGING EN DELING (Spoedtoets)

(2x – 5x)

**Oefening B1A:**

Datum: \_\_\_\_\_

Skryf slegs die antwoord neer.

(a)  $3 \times 3 = \underline{9}$

(a)  $16 \div 4 = \underline{4}$

(a)  $25 \times 4 = \underline{100}$

(a)  $7 \times 3 = \underline{21}$

(b)  $12 \div 4 = \underline{3}$

(b)  $9 \times 3 = \underline{27}$

(b)  $36 \div 4 = \underline{9}$

(b)  $32 \div 4 = \underline{8}$

(c)  $12 \times 5 = \underline{60}$

(c)  $25 \div 5 = \underline{5}$

(c)  $4 \times 5 = \underline{20}$

(c)  $0 \times 3 = \underline{0}$

(d)  $24 \div 4 = \underline{6}$

(d)  $3 \times 4 = \underline{12}$

(d)  $12 \div 3 = \underline{4}$

(d)  $48 \div 4 = \underline{12}$

(e)  $3 \times 5 = \underline{15}$

(e)  $100 \div 4 = \underline{25}$

(e)  $7 \times 4 = \underline{28}$

(e)  $50 \div 2 = \underline{25}$

(f)  $48 \div 4 = \underline{12}$

(f)  $8 \times 3 = \underline{24}$

(f)  $4 \div 0 = \underline{\text{ongedef.}}$

(f)  $27 \div 3 = \underline{9}$

(g)  $3 \times 4 = \underline{12}$

(g)  $100 \div 5 = \underline{20}$

(g)  $7 \times 5 = \underline{35}$

(g)  $18 \div 3 = \underline{6}$

(h)  $30 \div 5 = \underline{6}$

(h)  $7 \times 3 = \underline{21}$

(h)  $48 \div 2 = \underline{24}$

(h)  $70 \div 2 = \underline{35}$

(i)  $3 \times 3 = \underline{9}$

(i)  $24 \div 2 = \underline{12}$

(i)  $4 \times 5 = \underline{20}$

(i)  $48 \div 3 = \underline{16}$

(j)  $12 \times 3 = \underline{36}$

(j)  $20 \times 5 = \underline{100}$

(j)  $28 \div 4 = \underline{7}$

(j)  $24 \div 4 = \underline{6}$

Totaal: Totaal: Totaal: Totaal: 

Totaal uit 40:

---



---



---



---



---



---



---



---



---



---

Gebruik die tabel om die breuke te vergelyk.

1 hele							
$\frac{1}{2}$				$\frac{1}{2}$			
$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$	
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$

(3) Vul in:  $>$ ;  $<$  of  $=$

(a)  $\frac{4}{4}$    $\frac{1}{2}$

(b)  $\frac{1}{8}$    $\frac{1}{4}$

(c)  $\frac{2}{4}$    $\frac{1}{2}$

(d)  $\frac{4}{4}$    $\frac{2}{2}$

(f)  $\frac{3}{8}$    $\frac{2}{4}$

(f)  $\frac{1}{8}$    $\frac{1}{2}$

(g)  $\frac{6}{8}$    $\frac{3}{4}$

(h)  $\frac{1}{1}$    $\frac{4}{4}$

(i)  $\frac{8}{8}$    $\frac{2}{2}$

(j)  $\frac{1}{4}$    $\frac{3}{8}$

(k)  $\frac{1}{2}$    $\frac{3}{4}$

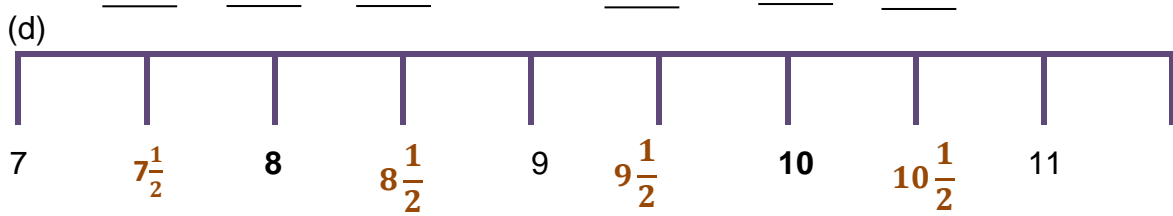
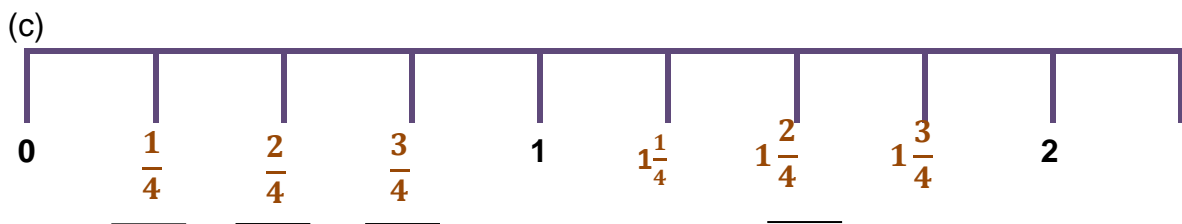
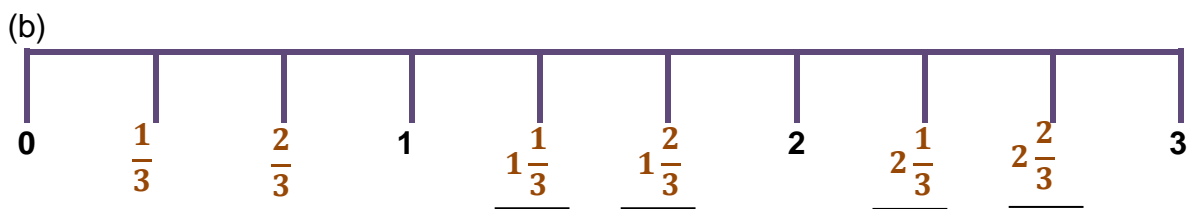
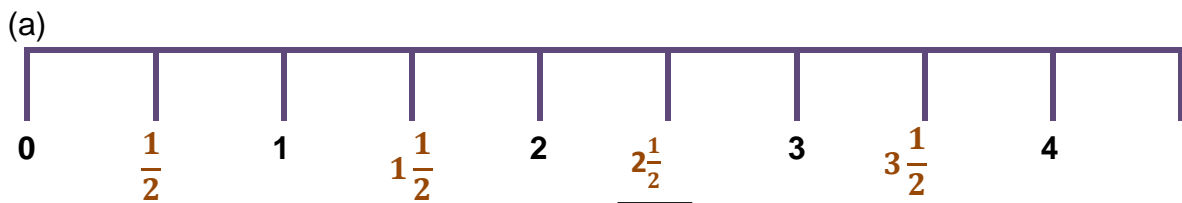
(l)  $\frac{4}{4}$    $\frac{4}{8}$

(m)  $\frac{5}{8}$    $\frac{1}{2}$

(n)  $\frac{1}{1}$    $\frac{8}{8}$

(o)  $\frac{4}{8}$    $\frac{1}{2}$

(4) Voltooi die getallelyne.





EGTE BREUK	ONEGTE BREUK	GEMENGDE GETAL
$\frac{3}{4}$	$\frac{5}{4}$	$1\frac{1}{4}$
Die breuk is <b>kleiner</b> as 1 hele. Die teller is dus kleiner as die noemer.	Die breuk is <b>groter</b> as 1 hele. Die teller is dus groter as die noemer.	Die breuk is <b>groter</b> as 1 hele.

**Oefening 2:**

Datum: \_\_\_\_\_

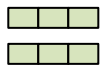


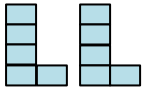
(1) Klassifiseer die breuke as egte breuke, onegte breuke of gemengde getalle.

$\frac{1}{3}$	$\frac{4}{3}$	$\frac{1}{5}$	$1\frac{1}{5}$
<u>Egte</u>	<u>onegte</u>	<u>egte</u>	<u>gemengde</u>
breuk	breuk	breuk	getal

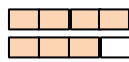

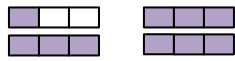
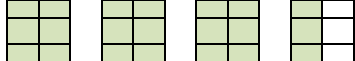
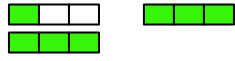
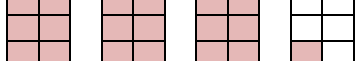
(2) Omkring al die breuke wat meer as 1 hele is.

$\frac{7}{8}$	$\frac{4}{5}$	$\frac{3}{8}$	$\frac{7}{6}$	$\frac{2}{3}$	$\frac{4}{1}$	$\frac{8}{8}$	$\frac{7}{5}$	$1\frac{7}{8}$
---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	----------------

(3) Hoeveel heles is daar in elk van die volgende?

(a)  $\frac{6}{3} = \underline{2}$	(b)  $\frac{9}{3} = \underline{3}$
(c)  $\frac{12}{4} = \underline{3}$	(d)  $\frac{10}{5} = \underline{2}$
(e) ? $\frac{8}{2} = \underline{4}$	(f) ? $\frac{16}{4} = \underline{4}$
(g) ? $\frac{20}{2} = \underline{10}$	(h) ? $\frac{36}{4} = \underline{9}$
(i) ? $\frac{12}{4} = \underline{3}$	(j) ? $\frac{18}{2} = \underline{9}$

(4) Watter breukdeel is elke keer ingekleur? Skryf dit ook as 'n gemengde getal.

(a)  $\rightarrow \frac{7}{4} = 1\frac{3}{4}$	(b)  $\rightarrow \frac{17}{6} = 2\frac{5}{6}$
(c)  $\rightarrow \frac{10}{3} = 3\frac{1}{3}$	(d)  $\rightarrow \frac{21}{6} = 3\frac{3}{6}$
(e)  $\rightarrow \frac{7}{3} = 2\frac{1}{3}$	(f)  $\rightarrow \frac{19}{6} = 3\frac{1}{6}$

**VERMENIGVULDIGING EN DELING (Spoedtoets)**  
**(8x – 9x)****Oefening B1C:**

Datum: \_\_\_\_\_

**Skryf slegs die antwoord neer.**

(a)  $3 \times 8 =$  24

(b)  $81 \div 9 =$  9

(c)  $7 \times 9 =$  63

(d)  $64 \div 8 =$  8

(e)  $7 \times 8 =$  56

(f)  $45 \div 9 =$  5

(g)  $0 \times 9 =$  0

(h)  $27 \div 9 =$  3

(i)  $3 \times 9 =$  27

(j)  $7 \times 9 =$  63

(a)  $18 \div 9 =$  2

(b)  $6 \times 9 =$  54

(c)  $40 \div 8 =$  5

(d)  $12 \times 8 =$  96

(e)  $72 \div 8 =$  9

(f)  $24 \div 8 =$  3

(g)  $45 \div 9 =$  5

(h)  $5 \times 8 =$  40

(i)  $108 \div 9 =$  12

(j)  $8 \times 9 =$  72

(a)  $5 \times 9 =$  45

(b)  $63 \div 9 =$  7

(c)  $12 \times 8 =$  96

(d)  $56 \div 8 =$  7

(e)  $8 \times 9 =$  72

(f)  $18 \div 0 =$  ongedef.

(g)  $6 \times 9 =$  54

(h)  $96 \div 12 =$  8

(i)  $7 \times 9 =$  63

(j)  $16 \div 8 =$  2

(a)  $11 \times 7 =$  77

(b)  $48 \div 6 =$  8

(c)  $6 \times 9 =$  54

(d)  $27 \div 9 =$  3

(e)  $9 \times 9 =$  81

(f)  $88 \div 8 =$  11

(g)  $45 \div 9 =$  5

(h)  $8 \times 9 =$  72

(i)  $72 \div 9 =$  8

(j)  $35 \div 7 =$  5

Totaal: Totaal: Totaal: Totaal: **Totaal uit 40:** 

---

---

---

---

---

---

---

---

---

---



1 HELE											
$\frac{1}{2}$						$\frac{1}{2}$					
$\frac{1}{3}$				$\frac{1}{3}$				$\frac{1}{3}$			
$\frac{1}{6}$		$\frac{1}{6}$		$\frac{1}{6}$		$\frac{1}{6}$		$\frac{1}{6}$		$\frac{1}{6}$	
$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$

**Oefening 3:**

Datum: \_\_\_\_\_

**(1) Voltooi met ekwivalente breuke.**

$$1 = \frac{2}{2} = \frac{3}{3} = \frac{6}{6} = \frac{12}{12}$$

**(2) Kyk na die diagram en beantwoord die vrae.**

(a)  $\frac{2}{6} = \underline{1}$  derde

(c)  $\frac{2}{3} = \underline{4}$  sesdes

(e)  $\frac{3}{6} = \underline{1}$  halwe

(g)  $\frac{1}{2} = \underline{6}$  twaalfdes

(i)  $\frac{1}{2} = \underline{3}$  sesdes

(k)  $\frac{3}{3} = \underline{1}$  hele

(m)  $\frac{12}{12} = \underline{6}$  sesdes

\*(o)  $\frac{9}{3} = \underline{3}$  heles

\*(q)  $\frac{12}{3} = \underline{4}$  heles

\*(s)  $\frac{36}{12} = \underline{3}$  heles

(b)  $\frac{6}{6} = \underline{1}$  hele

(d)  $\frac{4}{12} = \underline{1}$  derde

(f)  $\frac{8}{12} = \underline{4}$  sesdes

(h)  $\frac{1}{3} = \underline{4}$  twaalfdes

(j)  $\frac{4}{6} = \underline{8}$  twaalfdes

(l)  $\frac{1}{1} = \underline{3}$  derdes

\*(n)  $\frac{4}{2} = \underline{2}$  heles

\*(p)  $\frac{24}{12} = \underline{2}$  heles

\*(r)  $\frac{18}{3} = \underline{6}$  heles

\*(t)  $\frac{24}{6} = \underline{4}$  heles

**(3) Voltooi die regte tellers om heles te maak.**

(a)  $\frac{10}{2} = 5$

(d)  $\frac{8}{4} = 2$

(g)  $\frac{10}{5} = 2$

(b)  $\frac{6}{3} = 2$

(e)  $\frac{16}{4} = 4$

(h)  $\frac{24}{4} = 6$

(c)  $\frac{9}{3} = 3$

(f)  $\frac{10}{2} = 5$

(i)  $\frac{15}{5} = 3$

10  
**VERMENIGVULDIGING EN DELING** (Spoedtoets)  
(10x – 12x)

Oefening B1D:

Datum: \_\_\_\_\_

**Skryf slegs die antwoord neer.**

- |                               |                                 |                                   |                                    |
|-------------------------------|---------------------------------|-----------------------------------|------------------------------------|
| (a) $3 \times 12 =$ <u>36</u> | (a) $24 \div 12 =$ <u>2</u>     | (a) $5 \times 12 =$ <u>60</u>     | (a) $110 \times 12 =$ <u>1 320</u> |
| (b) $108 \div 9 =$ <u>12</u>  | (b) $11 \times 12 =$ <u>132</u> | (b) $48 \div 12 =$ <u>4</u>       | (b) $480 \div 12 =$ <u>40</u>      |
| (c) $7 \times 12 =$ <u>84</u> | (c) $144 \div 12 =$ <u>12</u>   | (c) $12 \times 12 =$ <u>144</u>   | (c) $30 \times 12 =$ <u>360</u>    |
| (d) $96 \div 8 =$ <u>12</u>   | (d) $12 \times 7 =$ <u>84</u>   | (d) $120 \div 10 =$ <u>12</u>     | (d) $840 \div 12 =$ <u>70</u>      |
| (e) $7 \times 10 =$ <u>70</u> | (e) $132 \div 12 =$ <u>11</u>   | (e) $20 \times 12 =$ <u>240</u>   | (e) $110 \times 11 =$ <u>1 210</u> |
| (f) $60 \div 12 =$ <u>5</u>   | (f) $121 \div 11 =$ <u>11</u>   | (f) $60 \div 0 =$ <u>ongedef.</u> | (f) $990 \div 11 =$ <u>90</u>      |
| (g) $0 \times 10 =$ <u>0</u>  | (g) $77 \div 11 =$ <u>7</u>     | (g) $40 \times 11 =$ <u>440</u>   | (g) $1\ 000 \div 10 =$ <u>100</u>  |
| (h) $36 \div 12 =$ <u>3</u>   | (h) $9 \times 12 =$ <u>108</u>  | (h) $600 \div 10 =$ <u>60</u>     | (h) $40 \times 12 =$ <u>480</u>    |
| (i) $7 \times 12 =$ <u>84</u> | (i) $108 \div 9 =$ <u>12</u>    | (i) $11 \times 10 =$ <u>110</u>   | (i) $12 \div 12 =$ <u>1</u>        |
| (j) $4 \times 12 =$ <u>48</u> | (j) $2 \times 12 =$ <u>24</u>   | (j) $240 \div 12 =$ <u>20</u>     | (j) $770 \div 7 =$ <u>110</u>      |

Totaal:

Totaal:

Totaal:

Totaal:

**Totaal uit 40:**

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

## Gemengde getalle en onegte breuke

**Oefening 4:**

Datum: \_\_\_\_\_

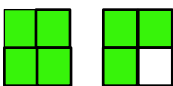

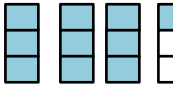
**(1) Hoeveel heles is daar elke keer en hoeveel van die breuk bly oor?**

(a)	$\frac{9}{5}$	=	$\frac{5}{5} + \frac{4}{5}$	=	<u>1 hele</u>	en	<u>4</u> vyfdes
(b)	$\frac{11}{6}$	=	$\frac{6}{6} + \frac{5}{6}$	=	<u>1 hele</u>	en	<u>5</u> sesdes
(c)	$\frac{9}{7}$	=	$\frac{7}{7} + \frac{2}{7}$	=	<u>1 hele</u>	en	<u>2</u> sewendes
(d)	$\frac{15}{6}$	=	$\frac{6}{6} + \frac{6}{6} + \frac{3}{6}$	=	<u>2 heles</u>	en	<u>3</u> sesdes
*(e)	$\frac{7}{3}$	=	$\frac{3}{3} + \frac{3}{3} + \frac{1}{3}$	=	<u>2 heles</u>	en	<u>1</u> derde
*(f)	$\frac{19}{7}$	=	$\frac{7}{7} + \frac{7}{7} + \frac{5}{7}$	=	<u>2 heles</u>	en	<u>5</u> sewendes
(g)	$\frac{9}{6}$	=	$\frac{6}{6} + \frac{3}{6}$	=	<u>1 hele</u>	en	<u>3</u> sesdes
(h)	$\frac{6}{5}$	=	$\frac{5}{5} + \frac{1}{5}$	=	<u>1 hele</u>	en	<u>1</u> vyfde

**(2) Skryf dit nou andersom.**

(a)	$1\frac{3}{5}$	=	$\frac{5}{5} + \frac{3}{5}$	=	$\frac{8}{5}$
(b)	$2\frac{2}{3}$	=	$\frac{3}{3} + \frac{3}{3} + \frac{2}{3}$	=	$\frac{8}{3}$
(c)	$1\frac{3}{7}$	=	$\frac{7}{7} + \frac{3}{7}$	=	$\frac{10}{7}$
(d)	$1\frac{5}{6}$	=	$\frac{6}{6} + \frac{5}{6}$	=	$\frac{11}{6}$
(e)	$2\frac{1}{3}$	=	$\frac{3}{3} + \frac{3}{3} + \frac{1}{3}$	=	$\frac{7}{3}$
(f)	$2\frac{1}{7}$	=	$\frac{7}{7} + \frac{7}{7} + \frac{1}{7}$	=	$\frac{15}{7}$
(g)	$2\frac{2}{4}$	=	$\frac{4}{4} + \frac{4}{4} + \frac{2}{4}$	=	$\frac{10}{4}$

**(3) Skryf somme om die volgende tekeninge te pas.**

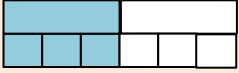
	Aantal ingekleur		Onegte breuk
(a)		=	<u>1</u> heles <u>3</u> kwarte of $\frac{7}{4}$
(b)		=	<u>2</u> heles <u>1</u> halwe of $\frac{5}{2}$
(c)		=	<u>3</u> heles <u>1</u> derde of $\frac{10}{3}$



## Ekwivalente breuke (Dit beteken breuke wat dieselfde waarde het.)

**Oefening 5:**

Datum: \_\_\_\_\_



$\frac{1}{2} \times \frac{3}{3} = \frac{3}{6}$  *daarom is:*  $\frac{1}{2} = \frac{3}{6}$

**(1) Skryf ekwivalente breuke neer.**

**GOUE REËL:** Vermenigvuldig of deel bo en onder met dieselfde getal.

(a)  $\frac{1}{2} \times \frac{3}{3} = \frac{3}{6}$

(b)  $\frac{1}{3} \times \frac{2}{2} = \frac{2}{6}$

(c)  $\frac{1}{3} \times \frac{3}{3} = \frac{3}{9}$

(d)  $\frac{2}{5} \times \frac{2}{2} = \frac{4}{10}$

(e)  $\frac{3}{4} \times \frac{3}{3} = \frac{9}{12}$

(f)  $\frac{3}{4} \times \frac{5}{5} = \frac{15}{20}$

(g)  $\frac{3}{6} \times \frac{2}{2} = \frac{6}{12}$

(h)  $\frac{5}{8} \times \frac{2}{2} = \frac{10}{16}$

(i)  $\frac{1}{9} \times \frac{2}{2} = \frac{2}{18}$

(j)  $\frac{4}{7} \times \frac{2}{2} = \frac{8}{14}$

(k)  $\frac{3}{6} \times \frac{2}{2} = \frac{6}{12}$

(l)  $\frac{2}{3} \times \frac{5}{5} = \frac{10}{15}$

(m)  $\frac{4}{9} \times \frac{10}{10} = \frac{40}{90}$

(n)  $\frac{2}{9} \times \frac{9}{9} = \frac{18}{81}$

(o)  $\frac{1}{5} \times \frac{14}{14} = \frac{14}{70}$

**(2) Skryf die regte getalle neer in die oop spasies om elke stelling waar te maak.**

(a)  $\frac{1}{2} = \frac{3}{6}$

(b)  $\frac{1}{2} = \frac{2}{4}$

(c)  $\frac{1}{2} = \frac{4}{8}$

(d)  $\frac{1}{2} = \frac{5}{10}$

(e)  $\frac{1}{4} = \frac{2}{8}$

(f)  $\frac{1}{4} = \frac{3}{12}$

(g)  $\frac{1}{4} = \frac{5}{20}$

(h)  $\frac{1}{4} = \frac{4}{16}$

(i)  $\frac{1}{3} = \frac{2}{6}$

(j)  $\frac{1}{3} = \frac{4}{12}$

(k)  $\frac{1}{3} = \frac{6}{18}$

(l)  $\frac{1}{3} = \frac{7}{21}$

(m)  $\frac{1}{5} = \frac{2}{10}$

(n)  $\frac{1}{5} = \frac{8}{40}$

(o)  $\frac{1}{5} = \frac{4}{20}$

(p)  $\frac{1}{5} = \frac{6}{30}$

(q)  $\frac{2}{6} = \frac{4}{12}$

(r)  $\frac{4}{5} = \frac{12}{15}$

(s)  $\frac{2}{3} = \frac{20}{30}$

(t)  $\frac{4}{6} = \frac{16}{24}$

(u)  $\frac{3}{4} = \frac{18}{24}$

(v)  $\frac{4}{8} = \frac{16}{32}$

(w)  $\frac{5}{7} = \frac{25}{35}$

(x)  $\frac{4}{6} = \frac{24}{36}$

**VERMENIGVULDIGING EN DELING (Spoedtoets)**  
**(9x -12x)**

Oefening B1F:

Datum: \_\_\_\_\_

**Skryf slegs die antwoord neer.**

- |                                 |                                 |                                   |                                   |
|---------------------------------|---------------------------------|-----------------------------------|-----------------------------------|
| (a) $6 \times 9 =$ <u>54</u>    | (a) $45 \div 9 =$ <u>5</u>      | (a) $3 \times 9 =$ <u>27</u>      | (a) $11 \times 90 =$ <u>990</u>   |
| (b) $81 \div 9 =$ <u>9</u>      | (b) $6 \times 9 =$ <u>54</u>    | (b) $36 \div 12 =$ <u>3</u>       | (b) $480 \div 12 =$ <u>40</u>     |
| (c) $7 \times 9 =$ <u>63</u>    | (c) $48 \div 12 =$ <u>4</u>     | (c) $12 \times 12 =$ <u>144</u>   | (c) $6 \times 120 =$ <u>720</u>   |
| (d) $36 \div 9 =$ <u>4</u>      | (d) $12 \times 12 =$ <u>144</u> | (d) $96 \div 12 =$ <u>8</u>       | (d) $360 \div 3 =$ <u>120</u>     |
| (e) $7 \times 12 =$ <u>84</u>   | (e) $54 \div 9 =$ <u>6</u>      | (e) $8 \times 9 =$ <u>72</u>      | (e) $11 \times 12 =$ <u>132</u>   |
| (f) $45 \div 9 =$ <u>5</u>      | (f) $60 \div 12 =$ <u>5</u>     | (f) $36 \div 2 =$ <u>18</u>       | (f) $840 \div 12 =$ <u>70</u>     |
| (g) $0 \times 11 =$ <u>0</u>    | (g) $132 \div 11 =$ <u>12</u>   | (g) $6 \times 2 =$ <u>12</u>      | (g) $450 \div 50 =$ <u>9</u>      |
| (h) $36 \div 12 =$ <u>3</u>     | (h) $5 \times 12 =$ <u>60</u>   | (h) $72 \div 6 =$ <u>12</u>       | (h) $120 \times 9 =$ <u>1 080</u> |
| (i) $11 \times 11 =$ <u>121</u> | (i) $108 \div 9 =$ <u>12</u>    | (i) $7 \times 9 =$ <u>63</u>      | (i) $720 \div 90 =$ <u>8</u>      |
| (j) $8 \times 12 =$ <u>96</u>   | (j) $8 \times 9 =$ <u>72</u>    | (j) $18 \div 0 =$ <u>ongedef.</u> | (j) $1 080 \div 90 =$ <u>12</u>   |

Totaal:

Totaal:

Totaal:

Totaal:

**Totaal uit 40:**

---

---

---

---

---

---

---

---

---

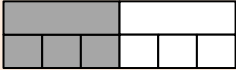
---

---

## Nog ekwivalente breuke (Vereenvoudig)

**Oefening 6:**

Datum: \_\_\_\_\_



$$\frac{6}{12} \div \frac{6}{6} = \frac{1}{2} \quad \text{daarom is: } \frac{3}{6} = \frac{1}{2}$$

**(1) Skryf ekwivalente breuke neer:**

**GOUE REËL:** Vermenigvuldig of deel bo en onder met dieselfde getal.

(a)  $\frac{6}{12} \div \frac{6}{6} = \frac{1}{2}$

(d)  $\frac{6}{8} \div \frac{2}{2} = \frac{3}{4}$

(g)  $\frac{7}{14} \div \frac{7}{7} = \frac{1}{2}$

(j)  $\frac{18}{21} \div \frac{3}{3} = \frac{6}{7}$

(m)  $\frac{20}{30} \div \frac{10}{10} = \frac{2}{3}$

(b)  $\frac{9}{12} \div \frac{3}{3} = \frac{3}{4}$

(e)  $\frac{12}{15} \div \frac{3}{3} = \frac{4}{5}$

(h)  $\frac{8}{16} \div \frac{8}{8} = \frac{1}{2}$

(k)  $\frac{12}{24} \div \frac{12}{12} = \frac{1}{2}$

(n)  $\frac{9}{27} \div \frac{9}{9} = \frac{1}{3}$

(c)  $\frac{4}{8} \div \frac{4}{4} = \frac{1}{2}$

(f)  $\frac{5}{10} \div \frac{5}{5} = \frac{1}{2}$

(i)  $\frac{9}{18} \div \frac{9}{9} = \frac{1}{2}$

(l)  $\frac{24}{30} \div \frac{6}{6} = \frac{4}{5}$

(o)  $\frac{15}{20} \div \frac{5}{5} = \frac{3}{4}$

**(2) Vul die regte getalle in om die stelling waar te maak:**

(a)  $\frac{3}{6} = \frac{1}{2}$

(e)  $\frac{3}{12} = \frac{1}{4}$

(i)  $\frac{4}{12} = \frac{1}{3}$

(b)  $\frac{6}{12} = \frac{1}{2}$

(f)  $\frac{5}{20} = \frac{1}{4}$

(j)  $\frac{5}{15} = \frac{1}{3}$

(c)  $\frac{10}{20} = \frac{1}{2}$

(g)  $\frac{4}{16} = \frac{1}{4}$

(k)  $\frac{2}{6} = \frac{1}{3}$

(d)  $\frac{9}{18} = \frac{1}{2}$

(h)  $\frac{6}{24} = \frac{1}{4}$

(l)  $\frac{3}{9} = \frac{1}{3}$

**(3) Hoeveel heles is daar?**

(a)  $\frac{12}{6} = \underline{2}$

(d)  $\frac{18}{6} = \underline{3}$

(g)  $\frac{16}{4} = \underline{4}$

(b)  $\frac{14}{7} = \underline{2}$

(e)  $\frac{24}{6} = \underline{4}$

(h)  $\frac{20}{5} = \underline{4}$

(c)  $\frac{21}{3} = \underline{7}$

(f)  $\frac{30}{6} = \underline{5}$

(i)  $\frac{28}{4} = \underline{7}$

## VERMENIGVULDIGING EN DELING (Spoedtoets)

Oefening B1G:

Datum: \_\_\_\_\_

## VOORKEUR VAN BEWERKINGS

Skryf slegs die antwoord neer.

(a)  $6 \times 6 + 4 = \underline{40}$

(b)  $5 + 81 \div 9 = \underline{14}$

(c)  $70 - 7 \times 9 = \underline{7}$

(d)  $100 - 25 \times 2 = \underline{50}$

(e)  $24 - 2 \times 12 = \underline{0}$

(f)  $40 - 45 \div 9 = \underline{35}$

(g)  $12 - 0 \times 11 = \underline{12}$

(h)  $18 - 36 \div 3 = \underline{6}$

(i)  $50 - 6 \times 5 = \underline{20}$

(j)  $40 - 7 \times 5 = \underline{5}$

(a)  $50 - 45 \div 5 = \underline{41}$

(b)  $90 - 5 \times 9 = \underline{45}$

(c)  $70 - 7 \times 5 = \underline{35}$

(d)  $150 - 12 \times 12 = \underline{6}$

(e)  $120 - 20 \times 3 = \underline{60}$

(f)  $100 - 5 \times 5 = \underline{75}$

(g)  $20 - 81 \div 9 = \underline{11}$

(h)  $80 - 8 \times 8 = \underline{16}$

(i)  $40 + 64 \div 8 = \underline{48}$

(j)  $25 + 8 \times 8 = \underline{89}$

(a)  $35 + 5 \times 7 = \underline{70}$

(b)  $9 + 48 \div 8 = \underline{15}$

(c)  $7 + 12 \times 12 = \underline{151}$

(d)  $8 + 56 \div 8 = \underline{15}$

(e)  $80 - 8 \times 5 = \underline{40}$

(f)  $75 - 24 \div 8 = \underline{72}$

(g)  $65 - 4 \times 9 = \underline{29}$

(h)  $15 + 72 \div 6 = \underline{27}$

(i)  $4 + 7 \times 9 = \underline{67}$

(j)  $18 + 64 \div 8 = \underline{26}$

Totaal: Totaal: Totaal: 

Totaal uit 30:

---



---



---



---



---



---



---



---



---



---



Optel van breukeOefening 7:

Datum: \_\_\_\_\_

**(1) Voltooi met die regte antwoorde.**

(a)

$$4 \xrightarrow{+\frac{1}{2}} \boxed{4\frac{1}{2}} \xrightarrow{+\frac{1}{2}} \boxed{5} \xrightarrow{+\frac{1}{2}} \boxed{5\frac{1}{2}}$$

(b)

$$6 \xrightarrow{+\frac{1}{2}} \boxed{6\frac{1}{2}} \xrightarrow{+\frac{1}{2}} \boxed{7} \xrightarrow{+\frac{1}{2}} \boxed{7\frac{1}{2}}$$

$$\boxed{9} \xleftarrow{+\frac{1}{2}} \boxed{8\frac{1}{2}} \xleftarrow{+\frac{1}{2}} \boxed{8} \xleftarrow{+\frac{1}{2}} \boxed{7\frac{1}{2}}$$

(c)

$$3 \xrightarrow{+\frac{1}{4}} \boxed{3\frac{1}{4}} \xrightarrow{+\frac{1}{4}} \boxed{3\frac{2}{4} \text{ of } 3\frac{1}{2}} \xrightarrow{+\frac{1}{4}} \boxed{3\frac{3}{4}}$$

$$\boxed{4\frac{2}{4} \text{ of } 4\frac{1}{2}} \xleftarrow{+\frac{1}{4}} \boxed{4\frac{1}{4}} \xleftarrow{+\frac{1}{4}} \boxed{4} \xleftarrow{+\frac{1}{4}} \boxed{3\frac{3}{4}}$$

**(2) Tel die breuke op.**

(a)  $\frac{1}{4} + \frac{1}{4} = \frac{2}{4} = \frac{1}{2}$

(b)  $\frac{1}{5} + \frac{3}{5} = \frac{4}{5}$

(c)  $\frac{1}{3} + \frac{2}{3} = \frac{3}{3} = 1$

(d)  $\frac{1}{4} + \frac{3}{4} = \frac{4}{4} = 1$

(e)  $\frac{2}{5} + \frac{2}{5} = \frac{4}{5}$

(f)  $\frac{3}{6} + \frac{1}{6} = \frac{4}{6} = \frac{2}{3}$

(g)  $\frac{2}{7} + \frac{3}{7} = \frac{5}{7}$

(h)  $\frac{5}{10} + \frac{1}{10} = \frac{6}{10} \text{ of } \frac{3}{5}$

(i)  $\frac{4}{8} + \frac{2}{8} = \frac{6}{8} = \frac{3}{4}$

(j)  $\frac{3}{9} + \frac{6}{9} = \frac{9}{9} = 1$

(k)  $\frac{4}{5} + \frac{1}{5} = \frac{5}{5} = 1$

(l)  $\frac{2}{2} + \frac{1}{1} = 2$

(m)  $\frac{5}{4} + \frac{2}{4} = \frac{7}{4} = 1\frac{3}{4}$

(n)  $\frac{3}{8} + \frac{4}{8} = \frac{7}{8}$

(o)  $\frac{3}{4} + \frac{4}{4} = \frac{7}{4} = 1\frac{3}{4}$



**MOEILIKER OPTELLING EN****VEREENVOUDIGING****Oefening 8:**

Datum: \_\_\_\_\_

**(1) Tel die breuke op en vereenvoudig die antwoord.**

(a) $\frac{3}{16} + \frac{5}{16} = \frac{8}{16} \div \frac{8}{8} = \frac{1}{2}$	(b) $\frac{4}{15} + \frac{8}{15} = \frac{12}{15} \div \frac{3}{3} = \frac{4}{5}$
(c) $\frac{2}{8} + \frac{2}{8} = \frac{4}{8} \div \frac{4}{4} = \frac{1}{2}$	(d) $\frac{12}{20} + \frac{3}{20} = \frac{15}{20} \div \frac{5}{5} = \frac{3}{4}$
(e) $\frac{11}{18} + \frac{1}{18} = \frac{12}{18} \div \frac{6}{6} = \frac{2}{3}$	(f) $\frac{24}{50} + \frac{6}{50} = \frac{30}{50} \div \frac{10}{10} = \frac{3}{5}$
(g) $\frac{15}{30} + \frac{5}{30} = \frac{20}{30} \div \frac{10}{10} = \frac{2}{3}$	(h) $\frac{6}{12} + \frac{2}{12} = \frac{8}{12} \div \frac{4}{4} = \frac{2}{3}$
(i) $\frac{25}{100} + \frac{35}{100} = \frac{60}{100} \div \frac{20}{20} = \frac{3}{5}$	(j) $\frac{15}{25} + \frac{5}{25} = \frac{20}{25} \div \frac{5}{5} = \frac{4}{5}$

**(2) Watter breuk moet elke keer bygetel word?**

(a) $\frac{3}{8} + \frac{4}{8} = \frac{7}{8}$	(b) $\frac{3}{6} + \frac{3}{6} = \frac{6}{6}$	(c) $\frac{2}{10} + \frac{6}{10} = \frac{8}{10}$
(d) $\frac{3}{15} + \frac{9}{15} = \frac{12}{15}$	(e) $\frac{2}{5} + \frac{3}{5} = 1$	*(f) $\frac{2}{5} + \frac{8}{5} = 2$
(g) $\frac{2}{10} + \frac{7}{10} = \frac{9}{10}$	(h) $\frac{5}{8} + \frac{3}{8} = 1$	*(i) $\frac{4}{6} + \frac{8}{6} = 2$
(j) $\frac{8}{20} + \frac{8}{20} = \frac{16}{20}$	(k) $\frac{4}{10} + \frac{6}{10} = 1$	*(l) $\frac{1}{2} + \frac{3}{2} = 2$
(m) $\frac{7}{8} + \frac{1}{8} = 1$	(n) $\frac{4}{7} + \frac{2}{7} = \frac{6}{7}$	*(o) $\frac{1}{5} + \frac{19}{5} = 4$

**(3) Tel die heelgetalle en die breuke bymekaar.**

(a) $1 + 1\frac{1}{3} = 2\frac{1}{3}$	(b) $1\frac{1}{4} + 1\frac{1}{4} = 2\frac{2}{4} = 2\frac{1}{2}$
(c) $4\frac{1}{5} + 1\frac{3}{5} = 5\frac{4}{5}$	(d) $4\frac{3}{6} + 1\frac{3}{6} = 5\frac{6}{6} = 6$
(e) $4\frac{1}{3} + 1\frac{1}{3} = 5\frac{2}{3}$	(f) $1\frac{2}{8} + 1\frac{1}{8} = 2\frac{3}{8}$
(g) $2\frac{3}{8} + 1\frac{1}{8} = 3\frac{4}{8} = 3\frac{1}{2}$	(h) $1\frac{2}{6} + 1\frac{3}{6} = 2\frac{5}{6}$

