

Graad 4 – Boek B

(CAPS uitgawe)

Hersien vir 2023

INHOUD:

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Hoofstuk B1


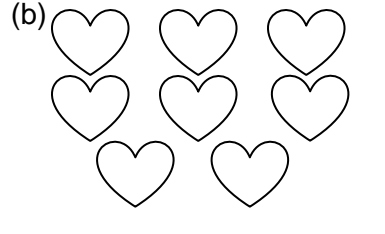
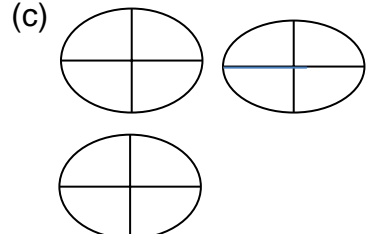
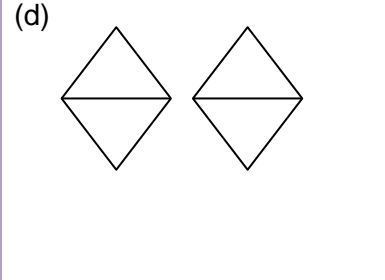
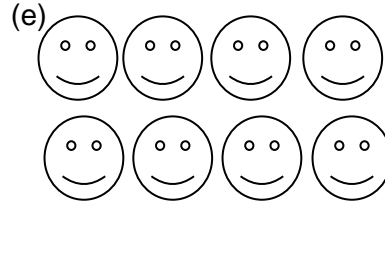
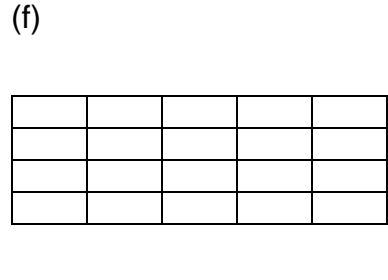
Breuke

B1.1 Beginnels van breuke:

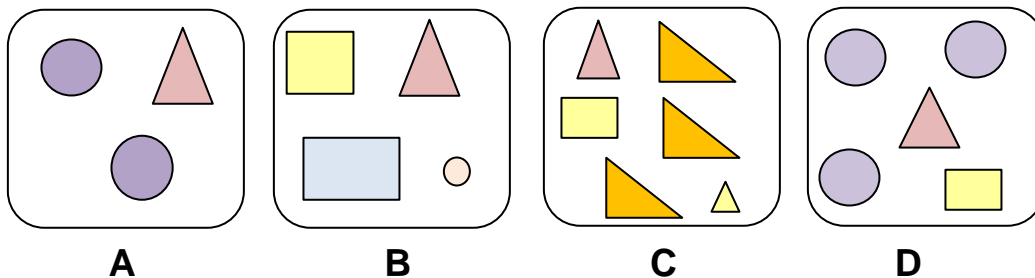
Oefening 1:

Datum: _____

(1) Kleur elke keer die helfte van die vorms in.

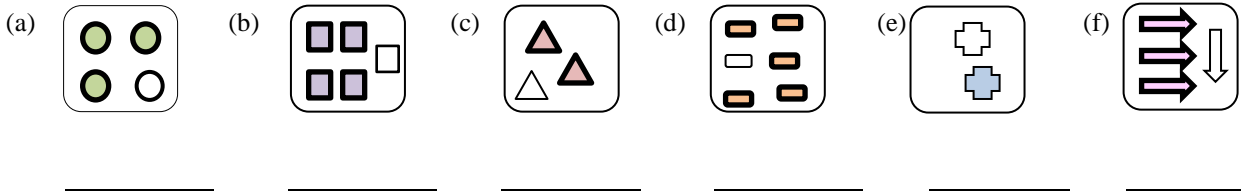
(a) 	(b) 	(c) 
(d) 	(e) 	(f) 

(2) Kyk na die blokke en beantwoord die vrae.



- a) Hoeveel vorms is daar in die blok A? _____
- b) Watter breukdeel van die vorms in blok A is driehoeke? _____
- c) Hoeveel vorms is daar in die blok D? _____
- d) Watter breukdeel van die vorms in blok D is vierkante? _____
- e) Watter breukdeel van die vorms in blok B is sirkels? _____
- f) Watter breukdeel van die vorms in blok C is nie driehoeke nie? _____

(3) Watter breukdeel is elke keer *nie* ingekleur *nie*?



Een van die vier is nie ingekleur nie. $\left(\frac{1}{4}\right)$

Drie van die vier is ingekleur. $\left(\frac{3}{4}\right)$

Daar is altesaam vier kwarte. $\left(\frac{4}{4}\right)$

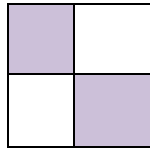
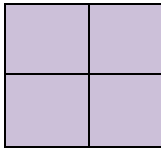
$\frac{1}{4}$	$\frac{1}{4}$
$\frac{1}{4}$	$\frac{1}{4}$

(4) Voltooi die tabel:

	BREUKDEEL INGEKLEUR	BREUKDEEL NIE INGEKLEUR NIE	SKRYF AL DIE DELE SAAM AS 'N HELE
(a)			
(b)			
(c)			
(d)			
(e)			
(f)			
(g)			
(h)			

(5) Dui aan of die volgende 'waar' of 'vals' is. Skryf slegs 'n 'W' of 'V' neer.

(a)

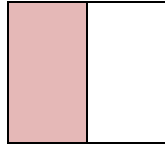
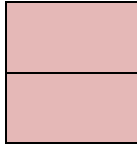


Daar is 2 heles.

Daar is 8 kwarte

Daar is 10 kwarte ingekleur.

(b)



Daar is 4 heles.

Daar is 4 halwes.

Twee halwes is ingekleur.

Een hele is ingekleur.

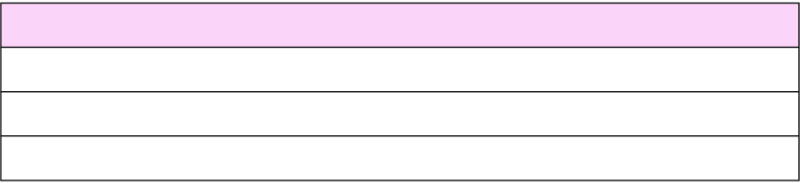
(6) Kleur die breuke in.

<p>(a) $\frac{1}{4}$</p>	<p>(b) $\frac{1}{2}$</p>	<p>(c) $\frac{2}{4}$</p>
<p>(d) $\frac{3}{8}$</p>	<p>(e) $\frac{2}{10}$</p>	<p>(f) $\frac{1}{2}$</p>
<p>(g) $\frac{1}{8}$</p>	<p>(h) $\frac{2}{6}$</p>	<p>(i) $\frac{5}{10}$</p>

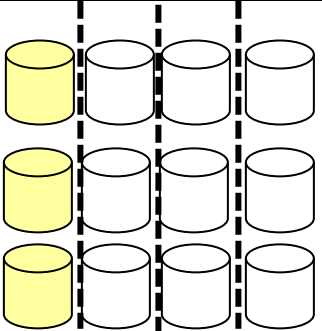
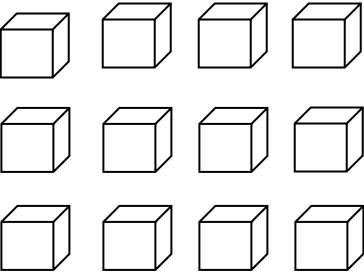
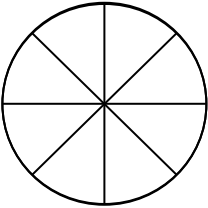
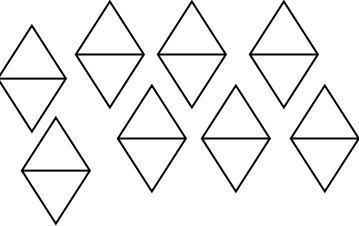
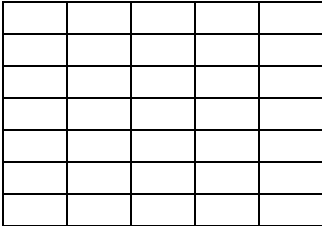
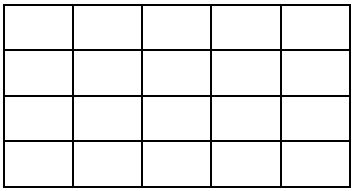
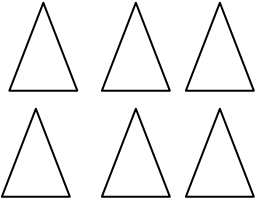
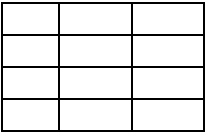
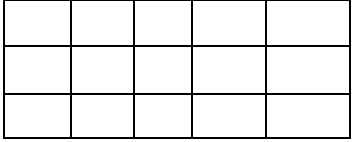
Oefening 2:

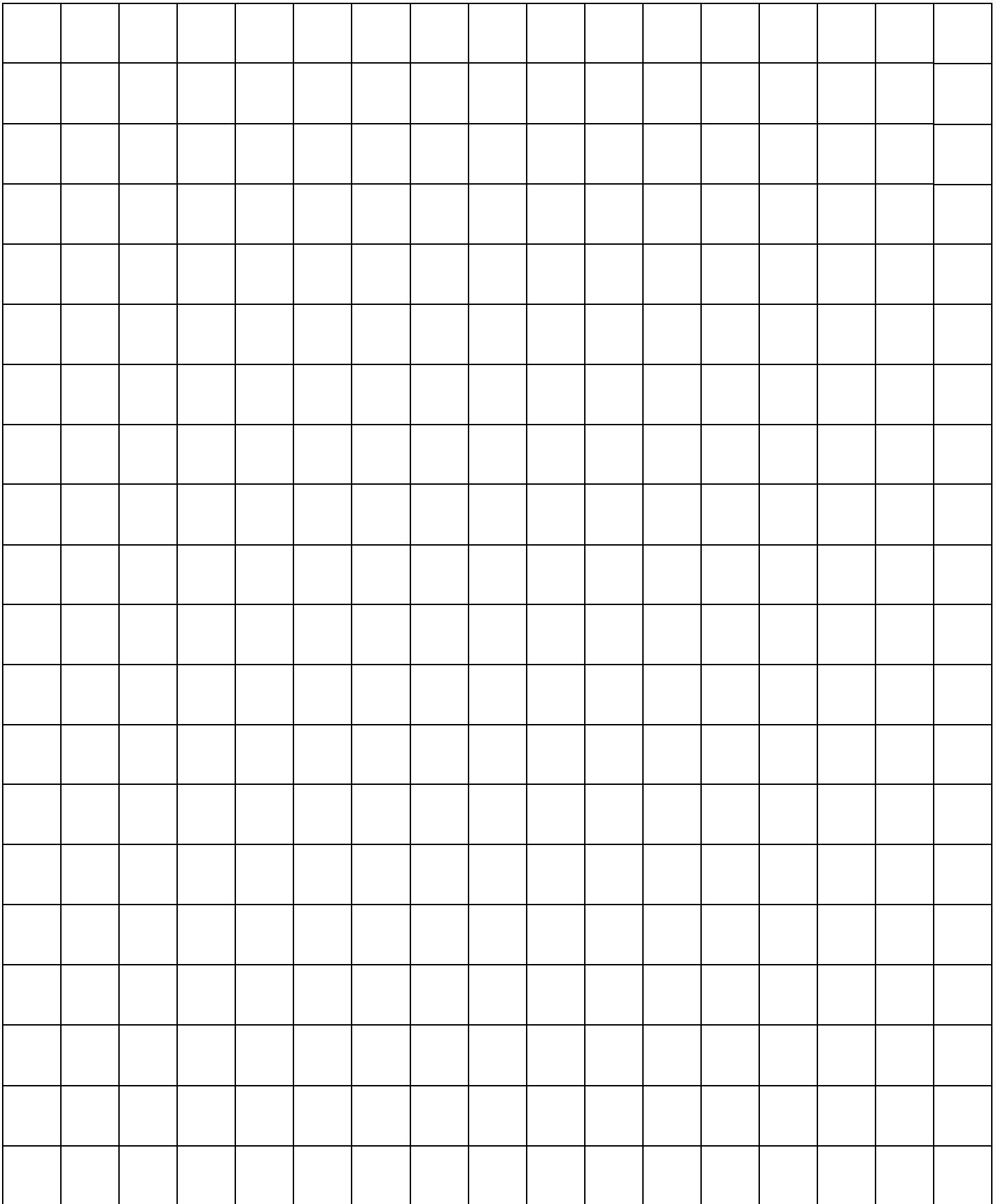
Datum: _____

Hierdie is in kwarte gedeel. Om 'n blok in kwarte te deel, deel ons dit in 4 ***gelyke dele***.



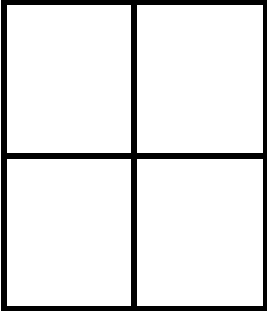
(1) Verdeel eers die vorms en kleur dit in soos gevra.

		
<p>(a) Kleur $\frac{1}{4}$ in.</p>	<p>(b) Kleur $\frac{1}{3}$ in.</p>	<p>(c) Kleur $\frac{1}{4}$ in.</p>
		
<p>(d) Kleur $\frac{1}{4}$ in.</p>	<p>(e) Kleur $\frac{1}{5}$ in.</p>	<p>(f) Kleur $\frac{1}{10}$ in.</p>
		
<p>(g) Kleur $\frac{1}{3}$ in.</p>	<p>(h) Kleur $\frac{1}{6}$ in.</p>	<p>(i) Kleur $\frac{1}{5}$ in.</p>

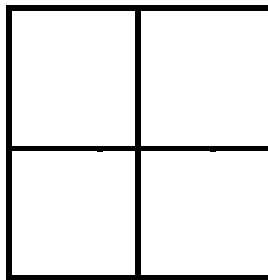


(2) (a) Kleur elke keer $\frac{1}{4}$ in.

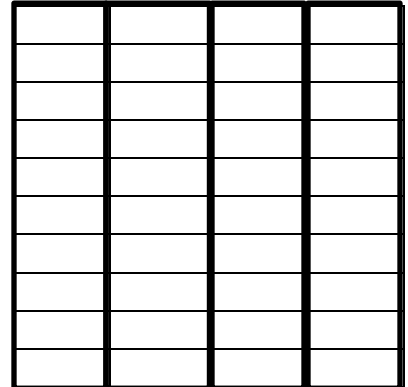
(a)



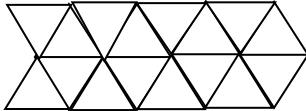
(b)



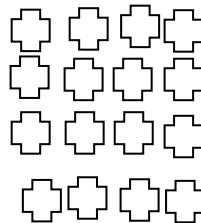
(c)



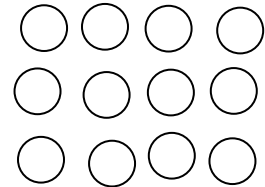
(d)



(e)



(f)



LEER!

$$\frac{3}{4} = \frac{\text{teller}}{\text{noemer}}$$

teller = noemer (een - hele)

teller > noemer (meer as een hele)

teller < as die noemer (minder as een hele)

(3) Dui aan watter breuk groter as 'n hele, kleiner as 'n hele of dieselfde as 'n hele is. Skryf die breuke in die regte blok.

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

(b) $\frac{5}{4}$

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

(d) $\frac{3}{4}$

(e) $\frac{9}{4}$

(f) $\frac{12}{4}$

(g) $\frac{4}{4}$

EEN HELE	KLEINER AS EEN HELE	GROTER AS EEN HELE

(4) Gebruik bl. 10 om die breuke, soos in nr. 3 in die blokke te teken.

HALVEER EN VERDUBBEL (Spoedtoets)

Oefening B1A:

Datum: _____

(1) Skryf slegs die antwoord neer:

Verdubbel die getalle.

- | | | | |
|-----|----|---|--|
| (a) | 7 | → | <input style="width: 95%;" type="text"/> |
| (c) | 14 | → | <input style="width: 95%;" type="text"/> |
| (e) | 9 | → | <input style="width: 95%;" type="text"/> |
| (g) | 11 | → | <input style="width: 95%;" type="text"/> |
| (i) | 15 | → | <input style="width: 95%;" type="text"/> |
| (k) | 26 | → | <input style="width: 95%;" type="text"/> |
| (m) | 35 | → | <input style="width: 95%;" type="text"/> |
| (o) | 22 | → | <input style="width: 95%;" type="text"/> |
| (q) | 45 | → | <input style="width: 95%;" type="text"/> |
| (s) | 64 | → | <input style="width: 95%;" type="text"/> |

Halveer die getalle.

- | | | | |
|-----|-----|---|--|
| (b) | 70 | → | <input style="width: 95%;" type="text"/> |
| (d) | 50 | → | <input style="width: 95%;" type="text"/> |
| (f) | 90 | → | <input style="width: 95%;" type="text"/> |
| (h) | 30 | → | <input style="width: 95%;" type="text"/> |
| (j) | 80 | → | <input style="width: 95%;" type="text"/> |
| (l) | 140 | → | <input style="width: 95%;" type="text"/> |
| (n) | 104 | → | <input style="width: 95%;" type="text"/> |
| (p) | 116 | → | <input style="width: 95%;" type="text"/> |
| (r) | 284 | → | <input style="width: 95%;" type="text"/> |
| (t) | 500 | → | <input style="width: 95%;" type="text"/> |

(2) Voltooi met halwes en heles.

(a) 4 = halwes

(c) 6 = halwes

(e) 9 = halwes

(g) 8 = halwes

(i) 5 = halwes

(b) 12 = halwes

(d) 16 = halwes

(f) 17 = halwes

(h) 19 = halwes

(j) 15 = halwes

(k) 13 halwes = heles + halwe bly oor.

(l) 23 halwes = heles + halwe bly oor.

(m) 15 halwes = heles + halwe bly oor.

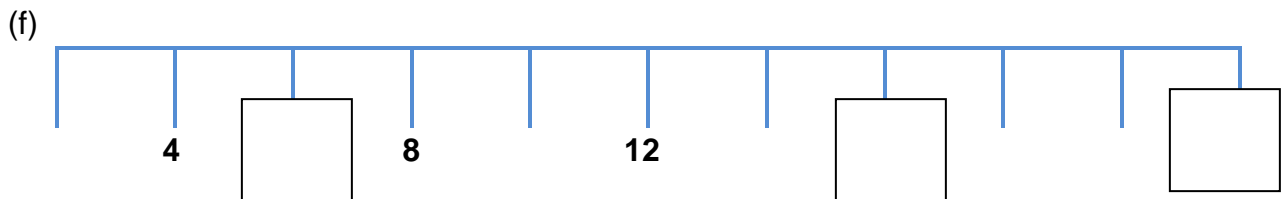
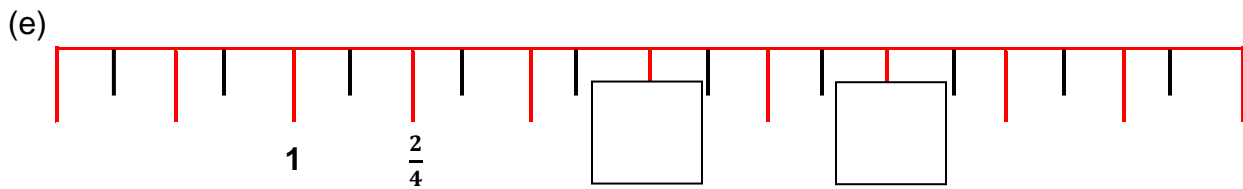
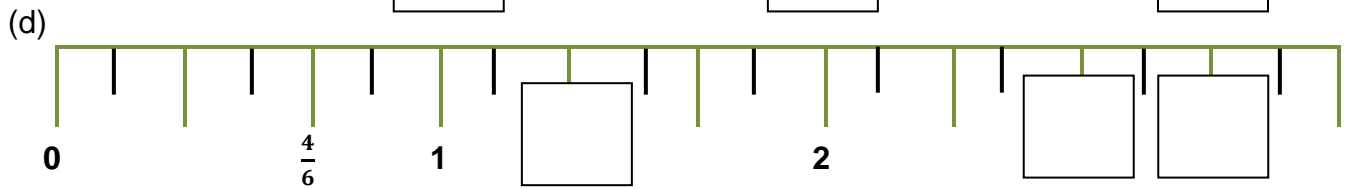
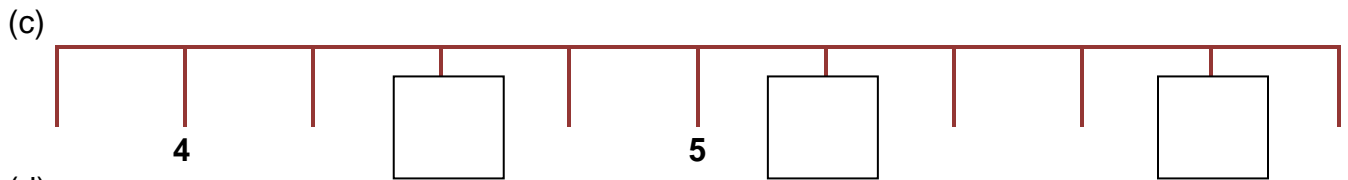
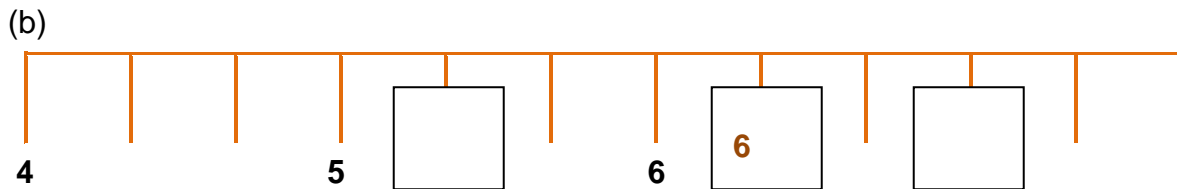
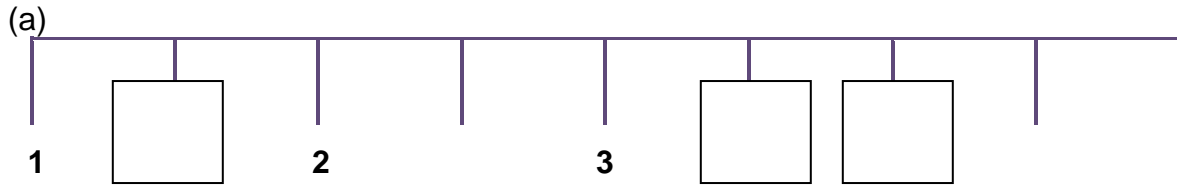
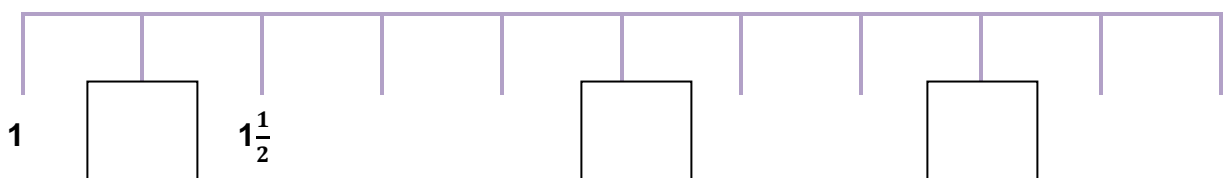
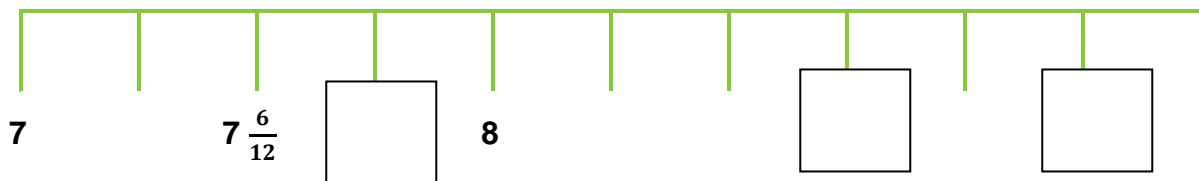
(n) 29 halwes = heles + halwe bly oor.

(o) 19 halwes = heles + halwe bly oor.

Totaal uit 35

Oefening 3:

Datum: _____

(1) **Voltooi die getallelyn. Vul slegs die getalle in wat uitgelaat is.****VIR VERRYKING:**

KWARTE (Spoedtoets)**Oefening B1B:**

Datum: _____

(1) Skryf slegs die antwoord neer:

(a) 1 = _____ kwarte

(c) 3 = _____ kwarte

(e) 5 = _____ kwarte

(g) 12 = _____ kwarte

(i) 2 = _____ kwarte

(k) 11 = _____ kwarte

(m) 50 = _____ kwarte

(o) 25 = _____ kwarte

(q) 40 = _____ kwarte

(s) 15 = _____ kwarte

(b) 4 kwarte = _____ heles

(d) 12 kwarte = _____ heles

(f) 8 kwarte = _____ heles

(h) 20 kwarte = _____ heles

(j) 16 kwarte = _____ heles

(l) 24 kwarte = _____ heles

(n) 32 kwarte = _____ heles

(p) 40 kwarte = _____ heles

*(r) 100 kwarte = _____ heles

*(t) 120 kwarte = _____ heles

(2) Voltooi met kwartes en heles.

(a) 5 kwarte = hele + kwart bly oor.

(b) 9 kwarte = heles + kwart bly oor.

(c) 14 kwarte = heles + kwarte bly oor.

(d) 25 kwarte = heles + kwart bly oor.

(e) 34 kwarte = heles + kwarte bly oor.

Totaal uit 25

EGTE BREUK	ONEGTE BREUK	GEMENGDE GETAL
$\frac{4}{6}$	$\frac{13}{6}$	$1\frac{1}{2}$
Die breuk is kleiner as 1 hele. Die teller is dus kleiner as die noemer.	Die breuk is groter as 1 hele. Die teller is dus groter as die noemer.	Die breuk is groter as 1 hele. Bestaan uit 'n heelgetal en 'n breuk.

Oefening 4:

Datum: _____

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

$$\frac{15}{4}$$

$$\frac{2}{4}$$

$$\frac{7}{3}$$

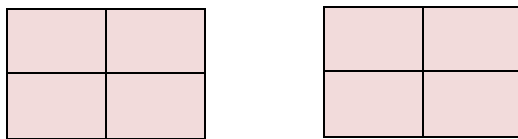
$$4\frac{1}{4}$$

_____ **breuk**_____ **breuk**_____ **breuk**_____ **getal**(2) **Omkring al die breuke wat meer as 1 hele is.**

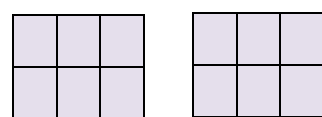
$\frac{15}{15}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{3}{2}$	$\frac{7}{4}$	$\frac{1}{1}$	$\frac{4}{4}$	$\frac{12}{2}$	$\frac{14}{4}$
-----------------	---------------	---------------	---------------	---------------	---------------	---------------	----------------	----------------

(3) **Voltooi die vrae:**

(a)

(i) Daar is kwarte.(ii) Daar is heles.

(b)

(i) Daar is sesdes(ii) Daar is heles

Breuke is eintlik ook deelsomme!

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

(a) $\frac{4}{2} =$ _____

(b) $\frac{14}{2} =$ _____

(c) $\frac{12}{6} =$ _____

(d) $\frac{10}{2} =$ _____

(e) $\frac{24}{3} =$ _____

(f) $\frac{15}{3} =$ _____

VYFDES (Spoedtoets)**Oefening B1C:****Datum:** _____**(1) Skryf slegs die antwoord neer:**

(a)	1	=	_____	vyfdes	(b)	5 vyfdes	=	_____	heles
(c)	4	=	_____	vyfdes	(d)	10 vyfdes	=	_____	heles
(e)	5	=	_____	vyfdes	(f)	20 vyfdes	=	_____	heles
(g)	3	=	_____	vyfdes	(h)	25 vyfdes	=	_____	heles
(i)	8	=	_____	vyfdes	(j)	15 vyfdes	=	_____	heles
(k)	10	=	_____	vyfdes	(l)	30 vyfdes	=	_____	heles
(m)	12	=	_____	vyfdes	(n)	50 vyfdes	=	_____	heles
(o)	6	=	_____	vyfdes	(p)	40 vyfdes	=	_____	heles
(q)	7	=	_____	vyfdes	*(r)	100 vyfdes	=	_____	heles
(s)	9	=	_____	vyfdes	*(t)	150 vyfdes	=	_____	heles

(2) Voltooi met vyfdes en heles.

- (a) 6 vyfdes = hele + vyfde bly oor.
- (b) 9 vyfdes = heles + vyfdes bly oor.
- (c) 11 vyfdes = heles + vyfde bly oor.
- * (d) 36 vyfdes = heles + vyfde bly oor.
- * (e) 34 vyfdes = heles + vyfdes bly oor.

Totaal uit 25

(g) $\frac{12}{2} =$	(h) $\frac{36}{2} =$	(i) $\frac{48}{2} =$
(j) $\frac{20}{2} =$	(k) $\frac{30}{2} =$	(l) $\frac{70}{2} =$
(m) $\frac{16}{2} =$	(n) $\frac{40}{5} =$	(o) $\frac{56}{7} =$
(p) $\frac{14}{2} =$	(q) $\frac{30}{2} =$	(r) $\frac{64}{8} =$

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

Oefening 5:

Datum: _____

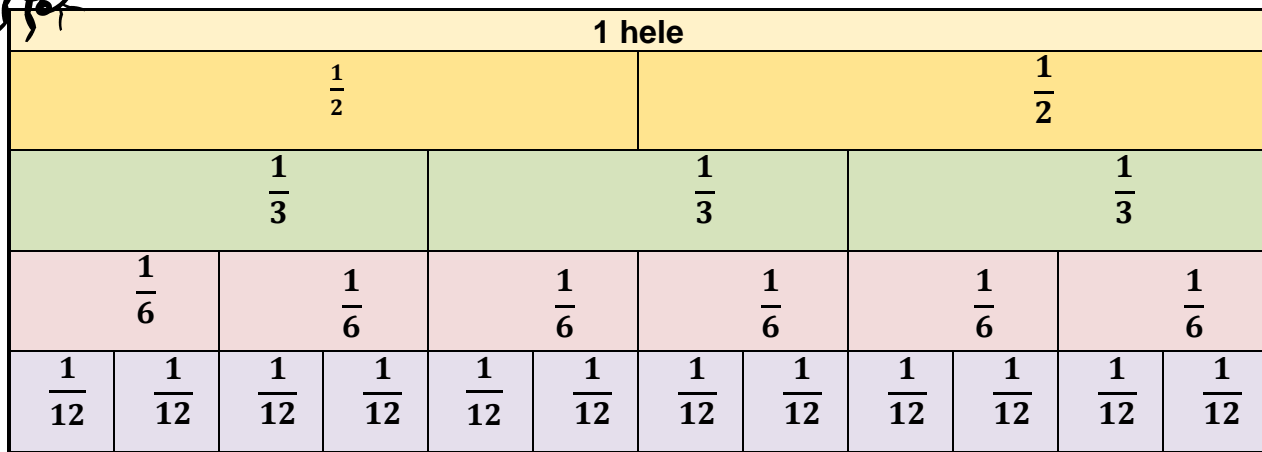
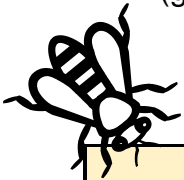
(1) Kyk na die diagram. Vul in: > ; < of =.

(a) $\frac{4}{8}$ <input type="text"/> $\frac{1}{2}$	(b) $\frac{1}{8}$ <input type="text"/> $\frac{1}{4}$	(c) $\frac{3}{8}$ <input type="text"/> $\frac{2}{4}$
(d) $\frac{1}{1}$ <input type="text"/> $\frac{4}{4}$	(e) $\frac{2}{8}$ <input type="text"/> $\frac{1}{4}$	(f) $\frac{2}{4}$ <input type="text"/> $\frac{1}{2}$
(g) $\frac{1}{2}$ <input type="text"/> $\frac{4}{8}$	(h) $\frac{1}{4}$ <input type="text"/> $\frac{2}{4}$	(i) $\frac{1}{20}$ <input type="text"/> $\frac{1}{10}$
(j) $\frac{8}{8}$ <input type="text"/> $\frac{20}{20}$	(k) $\frac{6}{4}$ <input type="text"/> $\frac{1}{8}$	(l) $\frac{1}{1}$ <input type="text"/> $\frac{5}{4}$
(m) $\frac{2}{2}$ <input type="text"/> $\frac{2}{8}$	(n) $\frac{7}{8}$ <input type="text"/> $\frac{4}{4}$	(o) $\frac{1}{2}$ <input type="text"/> $\frac{6}{8}$
(p) $\frac{8}{8}$ <input type="text"/> $\frac{4}{4}$	(q) $\frac{2}{2}$ <input type="text"/> 1	(r) $\frac{5}{4}$ <input type="text"/> $\frac{2}{2}$
(s) 1 <input type="text"/> $\frac{8}{8}$	(t) 2 <input type="text"/> $\frac{2}{2}$	(u) 2 <input type="text"/> $\frac{8}{8}$

(2) Skryf al die breuke in die blok neer wat gelyk aan 'n half is.

$\frac{4}{6}$	$\frac{4}{8}$	$\frac{3}{9}$	$\frac{12}{24}$	$\frac{6}{10}$	$\frac{2}{3}$	$\frac{9}{10}$	$\frac{20}{40}$	$\frac{1}{3}$	$\frac{16}{18}$
$\frac{7}{14}$	$\frac{4}{5}$	$\frac{6}{12}$	$\frac{5}{10}$	$\frac{7}{8}$	$\frac{14}{28}$	$\frac{15}{30}$	$\frac{8}{10}$	$\frac{12}{20}$	$\frac{8}{16}$

- | | | |
|-----------|-----------|-----------|
| (a) _____ | (b) _____ | (c) _____ |
| (d) _____ | (e) _____ | (f) _____ |
| (g) _____ | (h) _____ | (i) _____ |



Oefening 6:

Datum: _____

(1) Voltooi met ekwivalente breuke:

1	=	$\frac{\square}{2}$	=	$\frac{\square}{3}$	=	$\frac{\square}{4}$	=	$\frac{\square}{8}$
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(2) Kyk na die diagram bo en beantwoord die vrae.

- | | |
|----------------------------------|----------------------------------|
| (a) $\frac{2}{6}$ = _____ derde | (b) $\frac{6}{6}$ = _____ hele |
| (c) $\frac{2}{3}$ = _____ sesdes | (d) $\frac{4}{12}$ = _____ derde |

SESDER (Spoedtoets)

Oefening B1D:

Datum: _____

(1) Skryf slegs die antwoord neer:

(a) 1 = _____ sesdes

(c) 3 = _____ sesdes

(e) 6 = _____ sesdes

(g) 5 = _____ sesdes

(i) 9 = _____ sesdes

(k) 11 = _____ sesdes

(m) 12 = _____ sesdes

(o) 8 = _____ sesdes

(q) 20 = _____ sesdes

(s) 30 = _____ sesdes

(b) 6 sesdes = _____ hele

(d) 12 sesdes = _____ heles

(f) 36 sesdes = _____ heles

(h) 72 sesdes = _____ heles

(j) 18 sesdes = _____ heles

(l) 42 sesdes = _____ heles

(n) 60 sesdes = _____ heles

(p) 48 sesdes = _____ heles

*(r) 120 sesdes = _____ heles

*(t) 360 sesdes = _____ heles

(2) Voltooi met sesdes en heles.

(a) 8 sesdes = hele + sesdes bly oor.

(b) 15 sesdes = heles + sesdes bly oor.

(c) 19 sesdes = heles + sesde bly oor.

* (d) 37 sesdes = heles + sesde bly oor.

* (e) 50 sesdes = heles + sesdes bly oor.

Totaal uit 25
