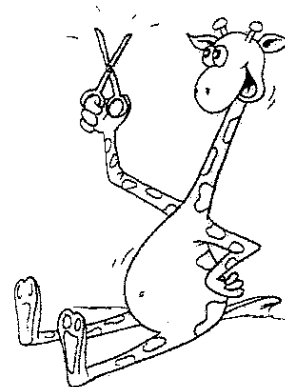
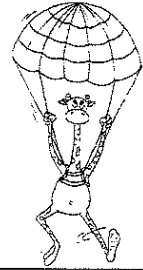

Blok 1 Optellen en aftrekken van breuken met gelijknamige noemers tot 1

Wat heb je nodig voor dit blok:

- schaar
- kleurpotloden
- pen
- potlood



Knip uit en bedenk sommen.



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

Knip de delen los van elkaar. Hoeveel verschillende optelsommen kan je met deze delen maken? Schrijf het antwoord op de volgende bladzijde.

$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$
$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$

Kleur $\frac{2}{6}$ deel of 2 delen. Welke sommen kan je nu maken met $\frac{2}{6}$ erin? Schrijf het antwoord op de volgende bladzijde.

$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$

Welke aftreksommen kan je allemaal maken met deze delen? Schrijf het antwoord op de volgende bladzijde.

Knip uit en bedenk sommen.



Schrijf hier de optelsommen die met de delen van $\frac{1}{4}$ kan maken.

Schrijf hier de optelsommen die je kan maken met $\frac{2}{6}$ erin.

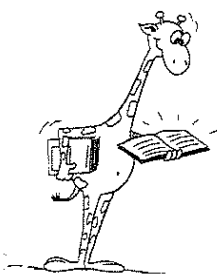
Schrijf hier de aftreksommen die je kan maken met de delen van $\frac{1}{8}$.



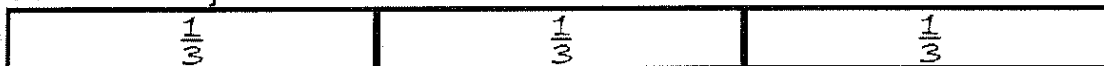
Met breuken kan je ook sommen maken:

Je hebt $\frac{3}{4}$ reep chocolade en je geeft $\frac{1}{4}$ deel van de reep weg,
hoeveel van je reep heb je dan nog over?

In dit hoofdstuk leer je hoe je breuken met gelijke noemers
bij elkaar op kan tellen en van elkaar af kunt trekken.

**Instructie 1:***Welke optelsom kan je maken met derde delen?**Welke optelsom kan je maken met zesde delen?**Welke optelsom kan je maken met derde delen?*

Deze plank is in 3 gelijke stukken verdeeld. Alle gelijke delen van een breuk zijn samen 1.

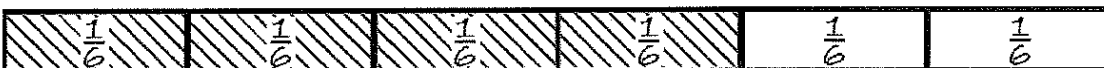


$\frac{1}{3}$ deel + $\frac{1}{3}$ deel + $\frac{1}{3}$ deel = $\frac{3}{3}$ deel of 1 plank.

Welke optelsom kan je maken met zesde delen?

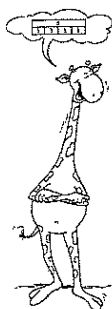
$$\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} = \frac{6}{6} = 1$$

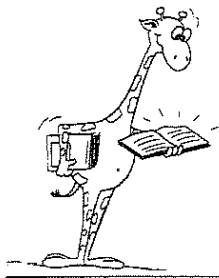
De som kan ook korter als je meerdere delen samen neemt:



$$\frac{4}{6} + \frac{1}{6} + \frac{1}{6} = \frac{6}{6} = 1 \text{ of anders opgeschreven: } \frac{4}{6} + \frac{2}{6} = \frac{6}{6} = 1$$

$$\text{Maar ook: } \frac{6}{6} - \frac{2}{6} = \frac{4}{6} \text{ en } \frac{6}{6} - \frac{4}{6} = \frac{2}{6}$$

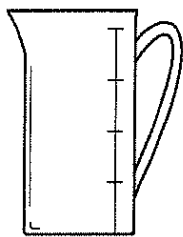


**Instructie 1 (vervolg):**

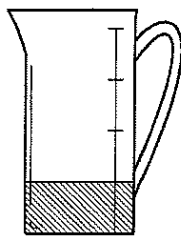
Welke optel- en aftreksommen kan je allemaal maken met vierde delen?

Welke optel- en aftreksommen kan je allemaal maken met vierde delen?

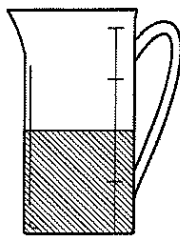
Met welk deel moet je de kan bijvullen om een volle kan te krijgen?



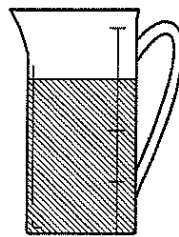
$$0 + \frac{4}{4} = \frac{4}{4} = 1$$



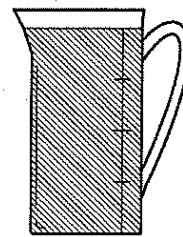
$$\frac{1}{4} + \frac{3}{4} = \frac{4}{4} = 1$$



$$\frac{2}{4} + \frac{2}{4} = \frac{4}{4} = 1$$

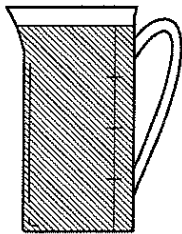


$$\frac{3}{4} + \frac{1}{4} = \frac{4}{4} = 1$$

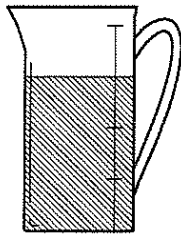


$$\frac{4}{4} + 0 = \frac{4}{4} = 1$$

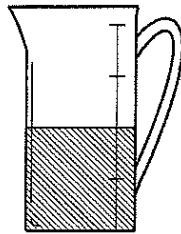
Hoeveel is uit de kan geschonken?



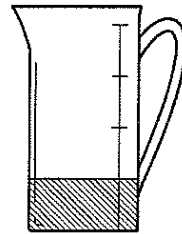
$$\frac{4}{4} - 0 = \frac{4}{4}$$



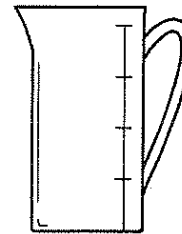
$$1 - \frac{1}{4} = \frac{3}{4}$$



$$1 - \frac{2}{4} = \frac{2}{4}$$

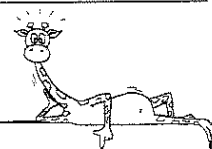


$$1 - \frac{3}{4} = \frac{1}{4}$$

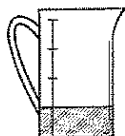


$$1 - \frac{4}{4} = 0$$

1. Welke sommen kan je maken met de kannen?



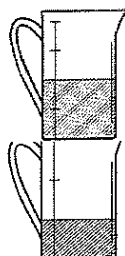
Voorbeeld:



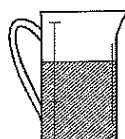
optelsom: $\frac{1}{4} + \frac{3}{4} = 1$

aftreksom: $1 - \frac{3}{4} = \frac{1}{4}$

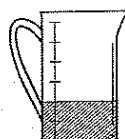
Nu jij:



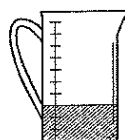
optelsom:
aftreksom:



optelsom:
aftreksom:



optelsom:
aftreksom:



optelsom:
aftreksom:

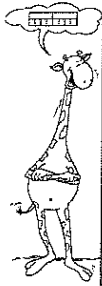
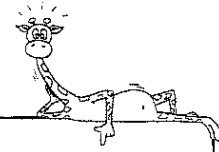
Bedenk zelf 1 opgave:



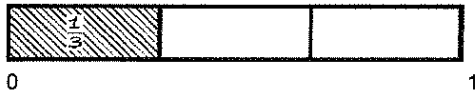
Deze bladzijde
ging zo:



2. Maak de optelsommen bij de stroken. Samen 1.



Voorbeeld:

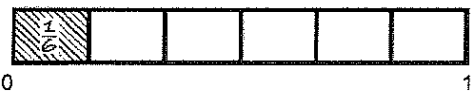


$$\frac{1}{3} + \frac{2}{3} = \frac{3}{3} = 1$$

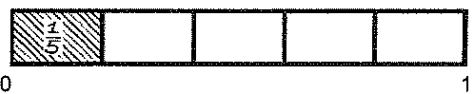
Nu jij:



$$\frac{1}{4} + \frac{\dots}{4} = \frac{\dots}{4} = 1$$



$$\frac{1}{6} + \frac{\dots}{6} = \frac{\dots}{6} = 1$$



$$\frac{1}{5} + \frac{\dots}{5} = \frac{\dots}{5} = 1$$



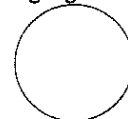
$$\frac{2}{3} + \frac{\dots}{3} = \frac{\dots}{3} = 1$$



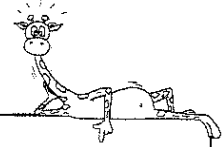
$$\frac{5}{12} + \frac{\dots}{12} = \frac{\dots}{12} = 1$$

Bedenk zelf 1 opgave:

Deze bladzijde
ging zo:

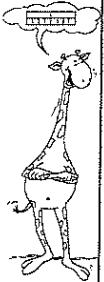


3. Maak samen 1. Teken de strook erbij.



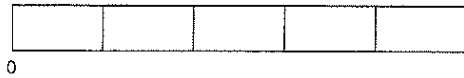
Voorbeeld:

$$\frac{1}{4} + \frac{3}{4} = \frac{4}{4} = 1$$



Nu jij:

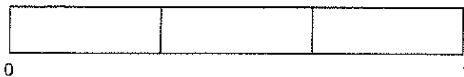
$$\frac{1}{5} + \frac{\dots}{\dots} = \frac{\dots}{\dots} = 1$$



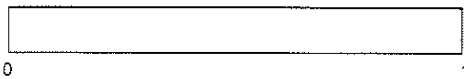
$$\frac{2}{7} + \frac{\dots}{\dots} = \frac{\dots}{\dots} = 1$$



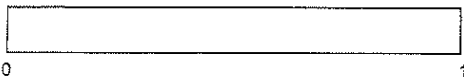
$$\frac{2}{3} + \frac{\dots}{\dots} = \frac{\dots}{\dots} = 1$$



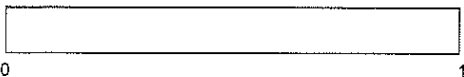
$$\frac{2}{4} + \frac{\dots}{\dots} = \frac{\dots}{\dots} = 1$$



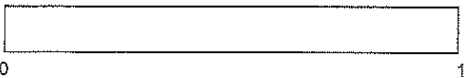
$$\frac{5}{6} + \frac{\dots}{\dots} = \frac{\dots}{\dots} = 1$$



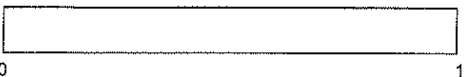
$$\frac{2}{5} + \frac{\dots}{\dots} = \frac{\dots}{\dots} = 1$$



$$\frac{3}{4} + \frac{\dots}{\dots} = \frac{\dots}{\dots} = 1$$



$$\frac{1}{3} + \frac{\dots}{\dots} = \frac{\dots}{\dots} = 1$$

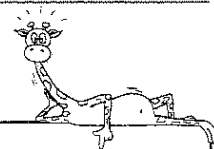


Bedenk zelf 1 opgave:

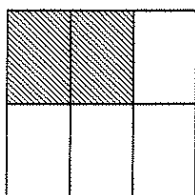
Deze bladzijde
ging zo:



4. Kleur het deel en verzin een optel- en een aftreksom.



Voorbeeld:

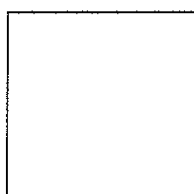


kleur $\frac{2}{6}$ deel

optelsom: $\frac{4}{6} + \frac{2}{6} = \frac{6}{6} = 1$

aftreksom: $1 - \frac{2}{6} = \frac{4}{6}$

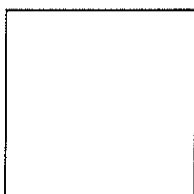
Nu jij:



kleur $\frac{1}{4}$ deel

optelsom:

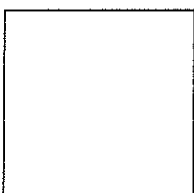
aftreksom:



kleur $\frac{2}{3}$ deel

optelsom:

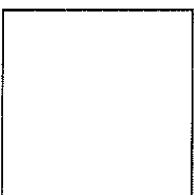
aftreksom:



kleur $\frac{4}{6}$ deel

optelsom:

aftreksom:



kleur $\frac{4}{8}$ deel

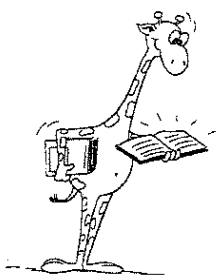
optelsom:

aftreksom:

Bedenk zelf 1 opgave:

Deze bladzijde
ging zo:





Instructie 2:
Welk deel van de stof is gebruikt?

Van een strook stof wordt $\frac{4}{8}$ deel gebruikt voor een broek, $\frac{2}{8}$ deel voor een shirt en $\frac{1}{8}$ deel voor een sjaal. Welk deel van de stof is gebruikt?

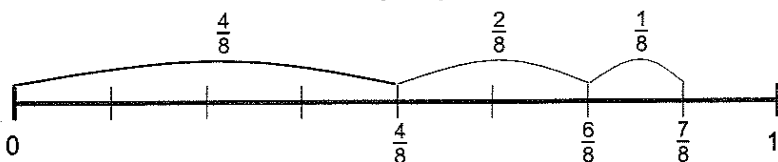
De optelsom: $\frac{4}{8} + \frac{2}{8} + \frac{1}{8} = \dots$

Met de breukenstrook ziet $\frac{4}{8} + \frac{2}{8} + \frac{1}{8}$ er zo uit:



$\frac{4}{8} + \frac{2}{8} + \frac{1}{8}$ wordt $\frac{6}{8} + \frac{1}{8} = \frac{7}{8}$. $\frac{7}{8}$ deel van de stof is gebruikt.

Op de getallenlijn ziet $\frac{4}{8} + \frac{2}{8} + \frac{1}{8}$ er zo uit:



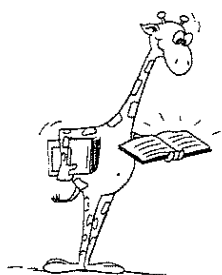
$\frac{4}{8} + \frac{2}{8} + \frac{1}{8} = \frac{7}{8}$. $\frac{7}{8}$ deel van de stof is gebruikt.

$\frac{4}{8} + \frac{2}{8} + \frac{1}{8}$ via handig rekenen:

Ik kan de tellers bij elkaar optellen.

De optelsom: $\frac{4}{8} + \frac{2}{8} + \frac{1}{8}$ wordt $\frac{4}{8} + \frac{3}{8} = \frac{7}{8}$.

Opdracht: kleur de giraffe van de manier die jij zou gebruiken.



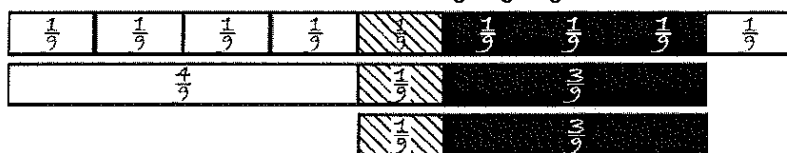
Instructie 2 (vervolg):

Hoeveel meter heb ik dan nog van de lap stof over?

Ik gebruik $\frac{8}{9}$ meter stof. Ik knip er eerst $\frac{3}{9}$ meter vanaf en dan $\frac{1}{9}$ meter. Hoeveel meter heb ik dan nog van de lap stof over?

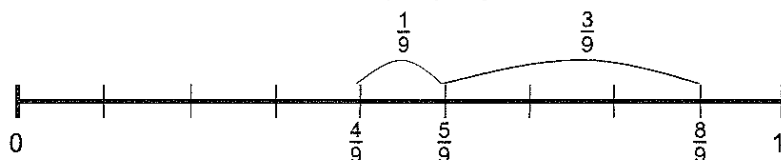
De aftreksom: $\frac{8}{9} - \frac{3}{9} - \frac{1}{9} = \dots$

Met de breukenstrook ziet $\frac{8}{9} - \frac{3}{9} - \frac{1}{9}$ er zo uit:



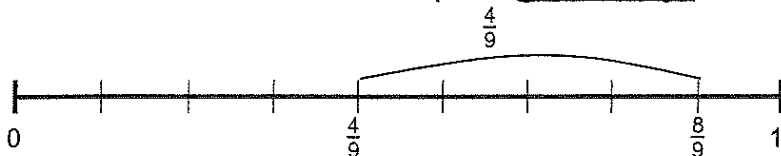
$\frac{4}{9}$ meter van de lap stof is nog over.

Op de getallenlijn ziet $\frac{8}{9} - \frac{3}{9} - \frac{1}{9}$ er zo uit:



$\frac{8}{9} - \frac{3}{9} - \frac{1}{9} = \frac{4}{9}$. $\frac{4}{9}$ meter van de lap stof is nog over.

of in één keer aftrekken op de getallenlijn:



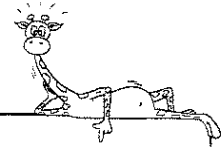
$\frac{8}{9} - \frac{3}{9} - \frac{1}{9} = \frac{8}{9} - \frac{4}{9} = \frac{4}{9}$. $\frac{4}{9}$ meter van de lap stof is nog over.

$\frac{8}{9} - \frac{3}{9} - \frac{1}{9}$ via handig rekenen:

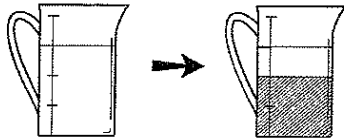
Ik kan de tellers van elkaar aftrekken. De aftreksom: $\frac{8}{9} - \frac{3}{9} - \frac{1}{9}$ wordt $\frac{8}{9} - \frac{4}{9} = \frac{4}{9}$.

Opdracht: kleur de giraffe van de manier die jij zou gebruiken.

5. Vul aan of schenk uit. Teken hoeveel er over blijft.

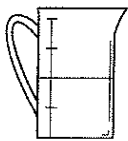


Voorbeeld:

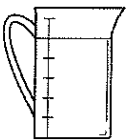


Ik heb $\frac{3}{4}$ liter. Ik schenk er $\frac{1}{4}$ liter uit.
Hoeveel liter zit er in de kan? $\frac{2}{4}$ liter

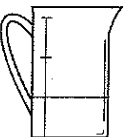
Nu jij:



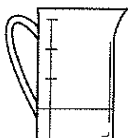
Ik heb $\frac{2}{4}$ liter. Ik vul de kan met $\frac{1}{4}$ liter aan.
Hoeveel zit er in de kan? ... liter



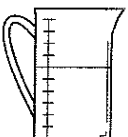
Ik heb $\frac{5}{6}$ liter. Ik schenk er $\frac{2}{6}$ liter uit.
Hoeveel zit er in de kan? ... liter



Ik heb $\frac{1}{3}$ liter. Ik vul de kan met $\frac{2}{3}$ liter aan.
Hoeveel zit er in de kan? ... liter



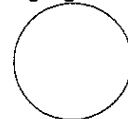
Ik heb $\frac{1}{4}$ liter. Ik schenk er $\frac{1}{4}$ liter uit.
Hoeveel zit er in de kan? ... liter



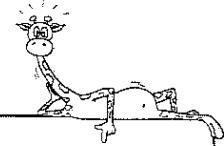
Ik heb $\frac{6}{10}$ liter. Ik schenk er $\frac{3}{10}$ liter uit.
Hoeveel zit er in de kan? ... liter

Bedenk zelf 1 opgave:

Deze bladzijde
ging zo:



6. Kleur de optelsom met 2 kleuren op de strook.
Maak de som.



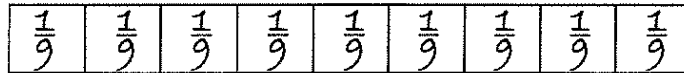
Voorbeeld:

$$\frac{2}{8} + \frac{3}{8} = \frac{5}{8}$$

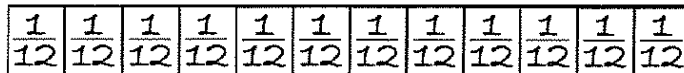


Nu jij:

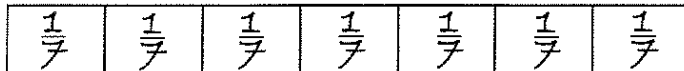
$$\frac{5}{9} + \frac{3}{9} =$$



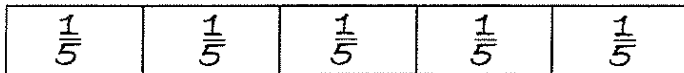
$$\frac{1}{12} + \frac{8}{12} =$$



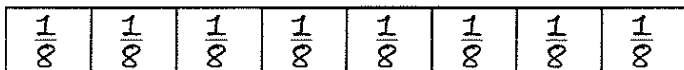
$$\frac{5}{7} + \frac{2}{7} =$$



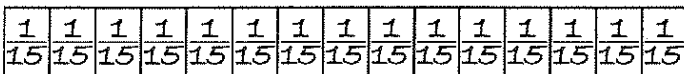
$$\frac{1}{5} + \frac{3}{5} =$$



$$\frac{3}{8} + \frac{1}{8} =$$

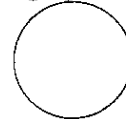


$$\frac{9}{15} + \frac{3}{15} =$$

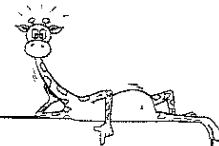


Bedenk zelf 1 opgave:

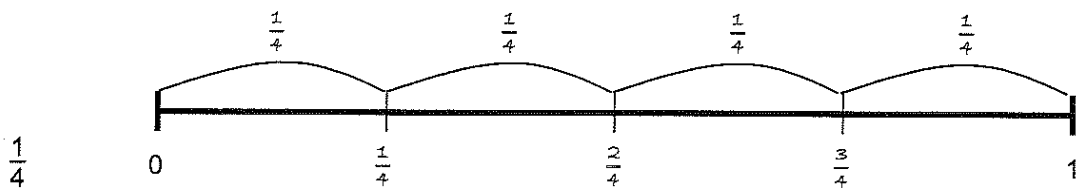
Deze bladzijde
ging zo:



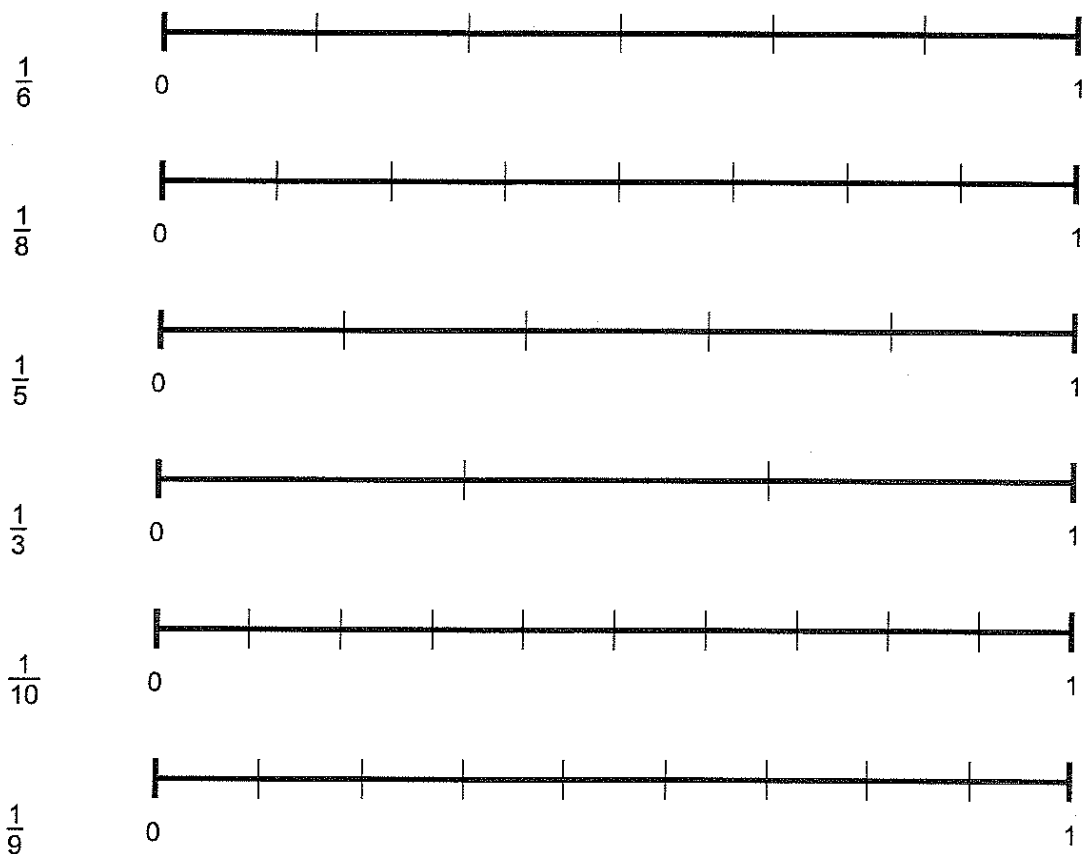
7. Spring door tot 1. Zet de breuken eronder.



Voorbeeld:

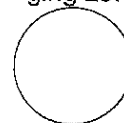


Nu jij:

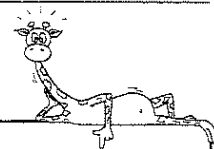


Bedenk zelf 1 opgave:

Deze bladzijde
ging zo:

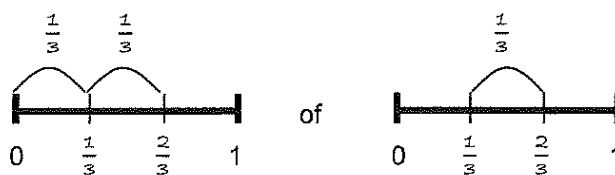


8. Teken de sprong op de getallenlijn en maak de optelsom.



Voorbeeld:

$$\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$$

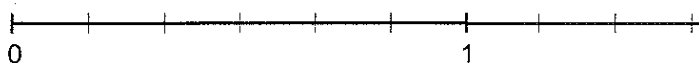


Nu jij:

$$\frac{2}{3} + \frac{1}{3} =$$



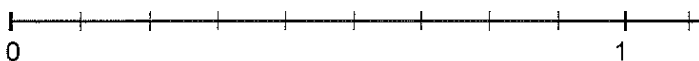
$$\frac{1}{6} + \frac{5}{6} =$$



$$\frac{5}{8} + \frac{2}{8} =$$



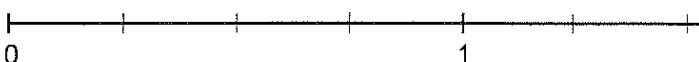
$$\frac{3}{9} + \frac{4}{9} =$$



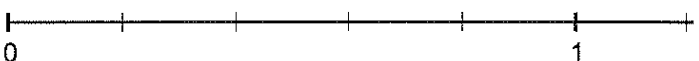
$$\frac{5}{12} + \frac{2}{12} =$$



$$\frac{1}{4} + \frac{3}{4} =$$



$$\frac{3}{5} + \frac{1}{5} =$$

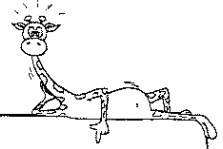


Bedenk zelf 1 opgave:

Deze bladzijde
ging zo:



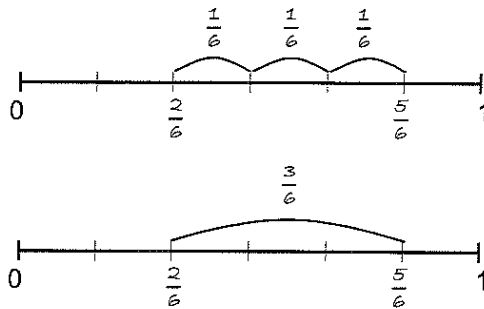
9. Teken de sprong op de getallenlijn en maak de aftreksom.



Voorbeeld:

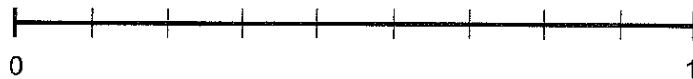
$$\frac{5}{6} - \frac{3}{6} = \frac{2}{6}$$

of



Nu jij:

$$\frac{6}{9} - \frac{4}{9} =$$



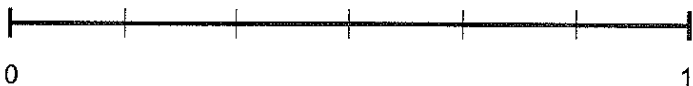
$$\frac{4}{5} - \frac{1}{5} =$$



$$1 - \frac{8}{12} =$$



$$\frac{2}{6} - \frac{1}{6} =$$



$$\frac{5}{8} - \frac{5}{8} =$$

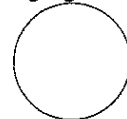


$$1 - \frac{2}{7} =$$

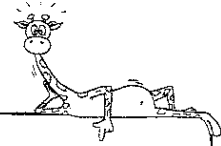


Bedenk zelf 1 opgave:

Deze bladzijde
ging zo:



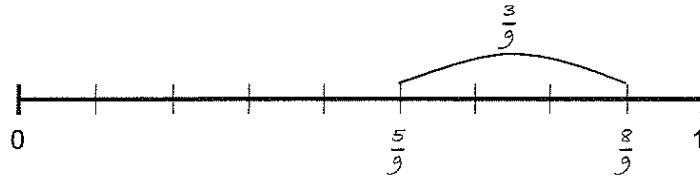
10. Maak de sommen bij de sprong op de getallenlijn.



Voorbeeld:

$$\text{som: } \frac{5}{9} + \frac{3}{9} = \frac{8}{9}$$

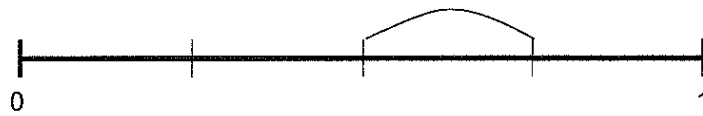
$$\text{som: } \frac{8}{9} - \frac{3}{9} = \frac{5}{9}$$



Nu jij:

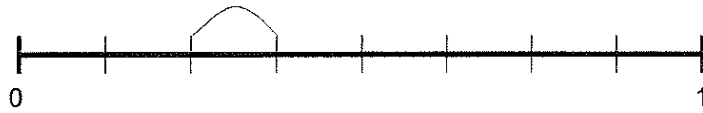
som:

som:



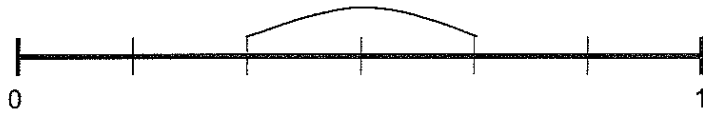
som:

som:



som:

som:



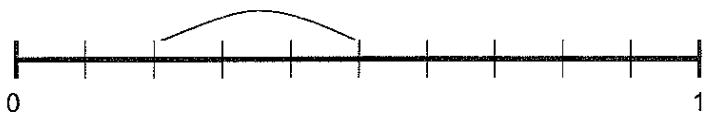
som:

som:



som:

som:



som:

som:

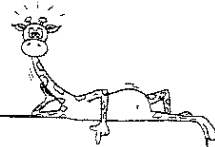


Bedenk zelf 1 opgave:

Deze bladzijde
ging zo:

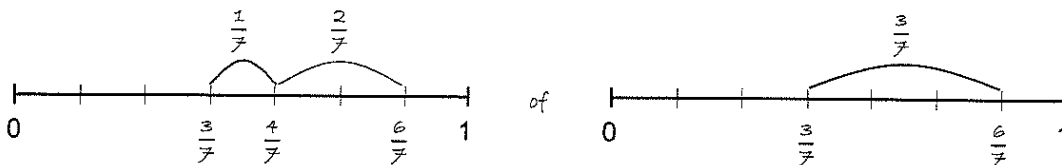


11. Maak de sommen, gebruik de getallenlijn als je wilt.



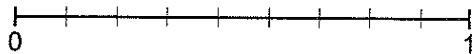
Voorbeeld:

$$\frac{3}{7} + \frac{1}{7} + \frac{2}{7} = \frac{3}{7} + \frac{3}{7} = \frac{6}{7}$$



Nu jij:

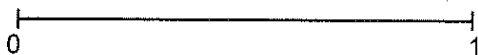
$$\frac{2}{9} + \frac{3}{9} + \frac{2}{9} =$$



$$\frac{3}{12} + \frac{5}{12} + \frac{3}{12} =$$



$$\frac{1}{4} + \frac{1}{4} + \frac{1}{4} =$$



$$\frac{1}{5} + \frac{3}{5} + \frac{1}{5} =$$



$$\frac{8}{9} - \frac{2}{9} - \frac{2}{9} =$$



$$\frac{8}{12} - \frac{4}{12} - \frac{1}{12} =$$



$$\frac{3}{4} - \frac{1}{4} - \frac{1}{4} =$$

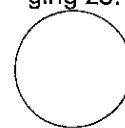


$$\frac{5}{5} - \frac{4}{5} - \frac{1}{5} =$$



Bedenk zelf 1 opgave:

Deze bladzijde
ging zo:



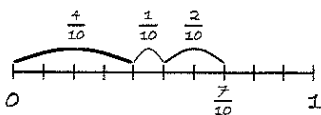


12. Maak de sommen. Gebruik jouw manier.

Voorbeeld:

$$\frac{4}{10} + \frac{1}{10} + \frac{2}{10} = \frac{7}{10}$$

$$\frac{7}{12} - \frac{2}{12} - \frac{3}{12} = \frac{2}{12}$$



$$\frac{4}{10} + \frac{1}{10} + \frac{2}{10} \text{ wordt } \frac{4}{10} + \frac{3}{10} = \frac{7}{10}$$



Nu jij:

$$\frac{3}{8} + \frac{4}{8} =$$

$$\frac{7}{9} - \frac{3}{9} =$$

$$\frac{5}{12} + \frac{2}{12} =$$

$$\frac{5}{7} - \frac{4}{7} =$$

$$\frac{2}{9} + \frac{3}{9} + \frac{2}{9} =$$

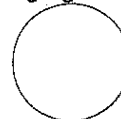
$$\frac{7}{10} - \frac{3}{10} - \frac{2}{10} =$$

$$\frac{4}{6} + \frac{1}{6} + \frac{1}{6} =$$

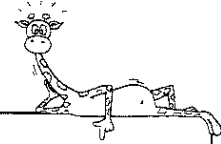
$$1 - \frac{2}{5} - \frac{2}{5} =$$

Bedenk zelf 1 opgave:

Deze bladzijde
ging zo:



13. Maak de splitsbomen. Samen 1



Voorbeeld:

1	
$\frac{1}{3}$	$\frac{2}{3}$
$\frac{2}{3}$	$\frac{1}{3}$
$\frac{3}{3}$	0



Nu jij:

1	
$\frac{3}{8}$	
$\frac{1}{8}$	
$\frac{8}{8}$	
$\frac{7}{8}$	

1	
$\frac{4}{4}$	
$\frac{1}{4}$	
$\frac{3}{4}$	
$\frac{2}{4}$	

1	
$\frac{3}{5}$	
$\frac{1}{5}$	
0	
$\frac{4}{5}$	

1	
$\frac{8}{12}$	
$\frac{4}{12}$	
$\frac{11}{12}$	
$\frac{2}{12}$	

1	
$\frac{8}{15}$	
$\frac{2}{15}$	
$\frac{6}{15}$	
$\frac{10}{15}$	

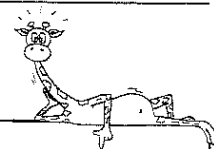
1	
$\frac{2}{6}$	
$\frac{3}{6}$	
$\frac{6}{6}$	
$\frac{1}{6}$	

Bedenk zelf 1 opgave:

Deze bladzijde
ging zo:



14. Maak de sommen. Gebruik jouw manier op een kladblaadje.



Voorbeeld:

$$\frac{1}{4} + \frac{2}{4} = \frac{3}{4}$$

$$\frac{4}{5} - \frac{3}{5} = \frac{1}{5}$$

Nu jij:

$$\frac{5}{8} + \frac{2}{8} =$$

$$\frac{3}{7} + \frac{4}{7} =$$

$$\frac{3}{9} + \frac{5}{9} =$$

$$\frac{2}{6} + \frac{2}{6} =$$

$$\frac{8}{15} + \frac{3}{15} =$$

$$\frac{3}{12} + \frac{7}{12} =$$

$$\frac{3}{5} + \frac{2}{5} =$$

$$\frac{9}{50} + \frac{22}{50} =$$

$$\frac{57}{100} + \frac{36}{100} =$$

$$\frac{8}{12} - \frac{3}{12} =$$

$$1 - \frac{4}{7} =$$

$$\frac{3}{6} - \frac{1}{6} =$$

$$\frac{9}{10} - \frac{5}{10} =$$

$$\frac{8}{8} - \frac{5}{8} =$$

$$\frac{2}{3} - \frac{2}{3} =$$

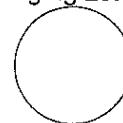
$$1 - \frac{3}{9} =$$

$$\frac{7}{14} - \frac{5}{14} =$$

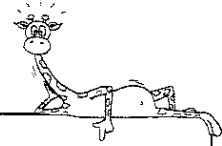
$$\frac{50}{75} - \frac{23}{75} =$$

Bedenk zelf 1 opgave:

Deze bladzijde
ging zo:



15. Maak de optelsommen kloppend. Samen 1.



Voorbeeld:

$$1 = \frac{1}{2} + \frac{1}{2}$$

$$1 = \frac{1}{3} + \frac{1}{3} + \frac{1}{3} \text{ of } 1 = \frac{1}{3} + \frac{2}{3}$$



Nu jij:

$$1 = \frac{1}{6} + \frac{\dots}{\dots} + \frac{\dots}{\dots} + \frac{\dots}{\dots} + \frac{\dots}{\dots} + \frac{\dots}{\dots} \text{ of } 1 = \frac{1}{6} + \frac{\dots}{\dots}$$

$$1 = \frac{1}{12} + \frac{\dots}{\dots} + \frac{\dots}{\dots} + \frac{\dots}{\dots} \text{ of } 1 = \frac{1}{12} + \frac{\dots}{\dots}$$

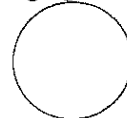
$$1 = \frac{3}{4} + \frac{\dots}{\dots} \text{ of } 1 = \frac{2}{4} + \frac{\dots}{\dots}$$

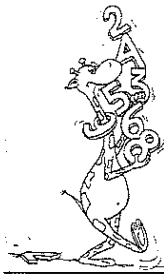
$$1 = \frac{6}{24} + \frac{\dots}{\dots} + \frac{\dots}{\dots} \text{ of } 1 = \frac{6}{24} + \frac{\dots}{\dots}$$

$$1 = \frac{4}{16} + \frac{\dots}{\dots} + \frac{\dots}{\dots} + \frac{\dots}{\dots} \text{ of } 1 = \frac{4}{16} + \frac{\dots}{\dots}$$

$$1 = \frac{2}{9} + \frac{\dots}{\dots} + \frac{\dots}{\dots} + \frac{\dots}{\dots} + \frac{\dots}{\dots} \text{ of } 1 = \frac{2}{9} + \frac{\dots}{\dots}$$

Bedenk zelf 1 opgave:

Deze bladzijde
ging zo:



BINGO-sommen

Uitleg:

- Knip de BINGO-kaarten uit.
- Van te voren worden de sommen geselecteerd die meedoen met de BINGO-ronde. Markeer deze op het breukenblad.
- Iedereen vult op zijn/haar BINGO-kaart de antwoorden in van de sommen.
- De spelleider prikt een som van het breukenblad, leest de som voor, wacht 3 tellen en prikt de volgende som.
- Wie heeft als eerste zijn/haar kaart vol? Of wie heeft als eerste een rij of kolom vol?



BINGO-kaarten



Breukenblad (plussommen)

$\frac{1}{1} + 0$	$\frac{1}{2} + 0$	$\frac{1}{2} + \frac{1}{2}$	$\frac{2}{2} + 0$	$\frac{1}{3} + 0$	$\frac{1}{3} + \frac{1}{3}$	$\frac{1}{3} + \frac{2}{3}$	$\frac{2}{3} + 0$	$\frac{2}{3} + \frac{1}{3}$
$\frac{3}{3} + 0$	$\frac{1}{4} + 0$	$\frac{1}{4} + \frac{1}{4}$	$\frac{1}{4} + \frac{2}{4}$	$\frac{1}{4} + \frac{3}{4}$	$\frac{2}{4} + 0$	$\frac{2}{4} + \frac{1}{4}$	$\frac{2}{4} + \frac{2}{4}$	$\frac{3}{4} + 0$
$\frac{3}{4} + \frac{1}{4}$	$\frac{4}{4} + 0$	$\frac{1}{5} + 0$	$\frac{1}{5} + \frac{1}{5}$	$\frac{1}{5} + \frac{2}{5}$	$\frac{1}{5} + \frac{3}{5}$	$\frac{1}{5} + \frac{4}{5}$	$\frac{2}{5} + 0$	$\frac{2}{5} + \frac{1}{5}$
$\frac{2}{5} + \frac{2}{5}$	$\frac{2}{5} + \frac{3}{5}$	$\frac{3}{5} + 0$	$\frac{3}{5} + \frac{1}{5}$	$\frac{3}{5} + \frac{2}{5}$	$\frac{4}{5} + 0$	$\frac{4}{5} + \frac{1}{5}$	$\frac{5}{5} + 0$	$\frac{1}{6} + 0$
$\frac{1}{6} + \frac{1}{6}$	$\frac{1}{6} + \frac{2}{6}$	$\frac{1}{6} + \frac{3}{6}$	$\frac{1}{6} + \frac{4}{6}$	$\frac{1}{6} + \frac{5}{6}$	$\frac{2}{6} + 0$	$\frac{2}{6} + \frac{1}{6}$	$\frac{2}{6} + \frac{2}{6}$	$\frac{2}{6} + \frac{3}{6}$
$\frac{2}{6} + \frac{4}{6}$	$\frac{3}{6} + 0$	$\frac{3}{6} + \frac{1}{6}$	$\frac{3}{6} + \frac{2}{6}$	$\frac{3}{6} + \frac{3}{6}$	$\frac{4}{6} + 0$	$\frac{4}{6} + \frac{1}{6}$	$\frac{4}{6} + \frac{2}{6}$	$\frac{5}{6} + 0$
$\frac{5}{6} + \frac{1}{6}$	$\frac{6}{6} + 0$	$\frac{1}{7} + 0$	$\frac{1}{7} + \frac{1}{7}$	$\frac{1}{7} + \frac{2}{7}$	$\frac{1}{7} + \frac{3}{7}$	$\frac{1}{7} + \frac{4}{7}$	$\frac{1}{7} + \frac{5}{7}$	$\frac{1}{7} + \frac{6}{7}$
$\frac{2}{7} + 0$	$\frac{2}{7} + \frac{1}{7}$	$\frac{2}{7} + \frac{2}{7}$	$\frac{2}{7} + \frac{3}{7}$	$\frac{2}{7} + \frac{4}{7}$	$\frac{2}{7} + \frac{5}{7}$	$\frac{3}{7} + 0$	$\frac{3}{7} + \frac{1}{7}$	$\frac{3}{7} + \frac{2}{7}$
$\frac{3}{7} + \frac{3}{7}$	$\frac{3}{7} + \frac{4}{7}$	$\frac{4}{7} + 0$	$\frac{4}{7} + \frac{1}{7}$	$\frac{4}{7} + \frac{2}{7}$	$\frac{4}{7} + \frac{3}{7}$	$\frac{5}{7} + 0$	$\frac{5}{7} + \frac{1}{7}$	$\frac{5}{7} + \frac{2}{7}$
$\frac{6}{7} + 0$	$\frac{6}{7} + \frac{1}{7}$	$\frac{7}{7} + 0$	$\frac{1}{8} + 0$	$\frac{1}{8} + \frac{1}{8}$	$\frac{1}{8} + \frac{2}{8}$	$\frac{1}{8} + \frac{3}{8}$	$\frac{1}{8} + \frac{4}{8}$	$\frac{1}{8} + \frac{5}{8}$
$\frac{1}{8} + \frac{6}{8}$	$\frac{1}{8} + \frac{7}{8}$	$\frac{2}{8} + 0$	$\frac{2}{8} + \frac{1}{8}$	$\frac{2}{8} + \frac{2}{8}$	$\frac{2}{8} + \frac{3}{8}$	$\frac{2}{8} + \frac{4}{8}$	$\frac{2}{8} + \frac{5}{8}$	$\frac{2}{8} + \frac{6}{8}$
$\frac{3}{8} + 0$	$\frac{3}{8} + \frac{1}{8}$	$\frac{3}{8} + \frac{2}{8}$	$\frac{3}{8} + \frac{3}{8}$	$\frac{3}{8} + \frac{4}{8}$	$\frac{3}{8} + \frac{5}{8}$	$\frac{4}{8} + 0$	$\frac{4}{8} + \frac{1}{8}$	$\frac{4}{8} + \frac{2}{8}$
$\frac{4}{8} + \frac{3}{8}$	$\frac{4}{8} + \frac{4}{8}$	$\frac{5}{8} + 0$	$\frac{5}{8} + \frac{1}{8}$	$\frac{5}{8} + \frac{2}{8}$	$\frac{5}{8} + \frac{3}{8}$	$\frac{6}{8} + 0$	$\frac{6}{8} + \frac{1}{8}$	$\frac{6}{8} + \frac{2}{8}$
$\frac{7}{8} + 0$	$\frac{7}{8} + \frac{1}{8}$	$\frac{8}{8} + 0$	$\frac{1}{9} + 0$	$\frac{1}{9} + \frac{1}{9}$	$\frac{1}{9} + \frac{2}{9}$	$\frac{1}{9} + \frac{3}{9}$	$\frac{1}{9} + \frac{4}{9}$	$\frac{1}{9} + \frac{5}{9}$
$\frac{1}{9} + \frac{6}{9}$	$\frac{1}{9} + \frac{7}{9}$	$\frac{1}{9} + \frac{8}{9}$	$\frac{2}{9} + 0$	$\frac{2}{9} + \frac{1}{9}$	$\frac{2}{9} + \frac{2}{9}$	$\frac{2}{9} + \frac{3}{9}$	$\frac{2}{9} + \frac{4}{9}$	$\frac{2}{9} + \frac{5}{9}$
$\frac{2}{9} + \frac{6}{9}$	$\frac{2}{9} + \frac{7}{9}$	$\frac{3}{9} + 0$	$\frac{3}{9} + \frac{1}{9}$	$\frac{3}{9} + \frac{2}{9}$	$\frac{3}{9} + \frac{3}{9}$	$\frac{3}{9} + \frac{4}{9}$	$\frac{3}{9} + \frac{5}{9}$	$\frac{3}{9} + \frac{6}{9}$
$\frac{4}{9} + 0$	$\frac{4}{9} + \frac{1}{9}$	$\frac{4}{9} + \frac{2}{9}$	$\frac{4}{9} + \frac{3}{9}$	$\frac{4}{9} + \frac{4}{9}$	$\frac{4}{9} + \frac{5}{9}$	$\frac{5}{9} + 0$	$\frac{5}{9} + \frac{1}{9}$	$\frac{5}{9} + \frac{2}{9}$
$\frac{5}{9} + \frac{3}{9}$	$\frac{5}{9} + \frac{4}{9}$	$\frac{6}{9} + 0$	$\frac{6}{9} + \frac{1}{9}$	$\frac{6}{9} + \frac{2}{9}$	$\frac{6}{9} + \frac{3}{9}$	$\frac{7}{9} + 0$	$\frac{7}{9} + \frac{1}{9}$	$\frac{7}{9} + \frac{2}{9}$
$\frac{8}{9} + 0$	$\frac{8}{9} + \frac{1}{9}$	$\frac{9}{9} + 0$	$\frac{1}{10} + 0$	$\frac{1}{10} + \frac{1}{10}$	$\frac{1}{10} + \frac{2}{10}$	$\frac{1}{10} + \frac{3}{10}$	$\frac{1}{10} + \frac{4}{10}$	$\frac{1}{10} + \frac{5}{10}$
$\frac{1}{10} + \frac{6}{10}$	$\frac{1}{10} + \frac{7}{10}$	$\frac{1}{10} + \frac{8}{10}$	$\frac{1}{10} + \frac{9}{10}$	$\frac{2}{10} + 0$	$\frac{2}{10} + \frac{1}{10}$	$\frac{2}{10} + \frac{2}{10}$	$\frac{2}{10} + \frac{3}{10}$	$\frac{2}{10} + \frac{4}{10}$
$\frac{2}{10} + \frac{5}{10}$	$\frac{2}{10} + \frac{6}{10}$	$\frac{2}{10} + \frac{7}{10}$	$\frac{2}{10} + \frac{8}{10}$	$\frac{3}{10} + 0$	$\frac{3}{10} + \frac{1}{10}$	$\frac{3}{10} + \frac{2}{10}$	$\frac{3}{10} + \frac{3}{10}$	$\frac{3}{10} + \frac{4}{10}$
$\frac{3}{10} + \frac{5}{10}$	$\frac{3}{10} + \frac{6}{10}$	$\frac{3}{10} + \frac{7}{10}$	$\frac{4}{10} + 0$	$\frac{4}{10} + \frac{1}{10}$	$\frac{4}{10} + \frac{2}{10}$	$\frac{4}{10} + \frac{3}{10}$	$\frac{4}{10} + \frac{4}{10}$	$\frac{4}{10} + \frac{5}{10}$
$\frac{4}{10} + \frac{6}{10}$	$\frac{5}{10} + 0$	$\frac{5}{10} + \frac{1}{10}$	$\frac{5}{10} + \frac{2}{10}$	$\frac{5}{10} + \frac{3}{10}$	$\frac{5}{10} + \frac{4}{10}$	$\frac{5}{10} + \frac{5}{10}$	$\frac{6}{10} + 0$	$\frac{6}{10} + \frac{1}{10}$
$\frac{6}{10} + \frac{2}{10}$	$\frac{6}{10} + \frac{3}{10}$	$\frac{6}{10} + \frac{4}{10}$	$\frac{7}{10} + 0$	$\frac{7}{10} + \frac{1}{10}$	$\frac{7}{10} + \frac{2}{10}$	$\frac{7}{10} + \frac{3}{10}$	$\frac{8}{10} + 0$	$\frac{8}{10} + \frac{1}{10}$
$\frac{8}{10} + \frac{2}{10}$	$\frac{9}{10} + 0$	$\frac{9}{10} + \frac{1}{10}$	$\frac{10}{10} + 0$					



Breukenblad (minsommen)

$\frac{1}{1} - 0$	$\frac{1}{2} - 0$	$\frac{2}{2} - 0$	$\frac{2}{2} - \frac{1}{2}$	$\frac{1}{3} - 0$	$\frac{2}{3} - 0$	$\frac{3}{3} - 0$	$\frac{2}{3} - \frac{1}{3}$	$\frac{3}{3} - \frac{1}{3}$
$\frac{3}{3} - \frac{2}{3}$	$\frac{1}{4} - 0$	$\frac{2}{4} - 0$	$\frac{3}{4} - 0$	$\frac{4}{4} - 0$	$\frac{2}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$	$\frac{4}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{2}{4}$
$\frac{4}{4} - \frac{2}{4}$	$\frac{4}{4} - \frac{3}{4}$	$\frac{1}{5} - 0$	$\frac{2}{5} - 0$	$\frac{3}{5} - 0$	$\frac{4}{5} - 0$	$\frac{5}{5} - 0$	$\frac{2}{5} - \frac{1}{5}$	$\frac{3}{5} - \frac{1}{5}$
$\frac{4}{5} - \frac{1}{5}$	$\frac{5}{5} - \frac{1}{5}$	$\frac{3}{5} - \frac{2}{5}$	$\frac{4}{5} - \frac{2}{5}$	$\frac{5}{5} - \frac{2}{5}$	$\frac{4}{5} - \frac{3}{5}$	$\frac{5}{5} - \frac{3}{5}$	$\frac{5}{5} - \frac{4}{5}$	$\frac{1}{6} - 0$
$\frac{2}{6} - 0$	$\frac{3}{6} - 0$	$\frac{4}{6} - 0$	$\frac{5}{6} - 0$	$\frac{6}{6} - 0$	$\frac{2}{6} - \frac{1}{6}$	$\frac{3}{6} - \frac{1}{6}$	$\frac{4}{6} - \frac{1}{6}$	$\frac{5}{6} - \frac{1}{6}$
$\frac{6}{6} - \frac{1}{6}$	$\frac{3}{6} - \frac{2}{6}$	$\frac{4}{6} - \frac{2}{6}$	$\frac{5}{6} - \frac{2}{6}$	$\frac{6}{6} - \frac{2}{6}$	$\frac{4}{6} - \frac{3}{6}$	$\frac{5}{6} - \frac{3}{6}$	$\frac{6}{6} - \frac{3}{6}$	$\frac{5}{6} - \frac{4}{6}$
$\frac{6}{6} - \frac{4}{6}$	$\frac{6}{6} - \frac{5}{6}$	$\frac{1}{7} - 0$	$\frac{2}{7} - 0$	$\frac{3}{7} - 0$	$\frac{4}{7} - 0$	$\frac{5}{7} - 0$	$\frac{6}{7} - 0$	$\frac{7}{7} - 0$
$\frac{2}{7} - \frac{1}{7}$	$\frac{3}{7} - \frac{1}{7}$	$\frac{4}{7} - \frac{1}{7}$	$\frac{5}{7} - \frac{1}{7}$	$\frac{6}{7} - \frac{1}{7}$	$\frac{7}{7} - \frac{1}{7}$	$\frac{3}{7} - \frac{2}{7}$	$\frac{4}{7} - \frac{2}{7}$	$\frac{5}{7} - \frac{2}{7}$
$\frac{6}{7} - \frac{2}{7}$	$\frac{7}{7} - \frac{2}{7}$	$\frac{4}{7} - \frac{3}{7}$	$\frac{5}{7} - \frac{3}{7}$	$\frac{6}{7} - \frac{3}{7}$	$\frac{7}{7} - \frac{3}{7}$	$\frac{5}{7} - \frac{4}{7}$	$\frac{6}{7} - \frac{4}{7}$	$\frac{7}{7} - \frac{4}{7}$
$\frac{6}{7} - \frac{5}{7}$	$\frac{7}{7} - \frac{5}{7}$	$\frac{7}{7} - \frac{6}{7}$	$\frac{1}{8} - 0$	$\frac{2}{8} - 0$	$\frac{3}{8} - 0$	$\frac{4}{8} - 0$	$\frac{5}{8} - 0$	$\frac{6}{8} - 0$
$\frac{7}{8} - 0$	$\frac{8}{8} - 0$	$\frac{2}{8} - \frac{1}{8}$	$\frac{3}{8} - \frac{1}{8}$	$\frac{4}{8} - \frac{1}{8}$	$\frac{5}{8} - \frac{1}{8}$	$\frac{6}{8} - \frac{1}{8}$	$\frac{7}{8} - \frac{1}{8}$	$\frac{8}{8} - \frac{1}{8}$
$\frac{3}{8} - \frac{2}{8}$	$\frac{4}{8} - \frac{2}{8}$	$\frac{5}{8} - \frac{2}{8}$	$\frac{6}{8} - \frac{2}{8}$	$\frac{7}{8} - \frac{2}{8}$	$\frac{8}{8} - \frac{2}{8}$	$\frac{4}{8} - \frac{3}{8}$	$\frac{5}{8} - \frac{3}{8}$	$\frac{6}{8} - \frac{3}{8}$
$\frac{7}{8} - \frac{3}{8}$	$\frac{8}{8} - \frac{3}{8}$	$\frac{5}{8} - \frac{4}{8}$	$\frac{6}{8} - \frac{4}{8}$	$\frac{7}{8} - \frac{4}{8}$	$\frac{8}{8} - \frac{4}{8}$	$\frac{6}{8} - \frac{5}{8}$	$\frac{7}{8} - \frac{5}{8}$	$\frac{8}{8} - \frac{5}{8}$
$\frac{7}{8} - \frac{6}{8}$	$\frac{8}{8} - \frac{6}{8}$	$\frac{8}{8} - \frac{7}{8}$	$\frac{1}{9} - 0$	$\frac{2}{9} - 0$	$\frac{3}{9} - 0$	$\frac{4}{9} - 0$	$\frac{5}{9} - 0$	$\frac{6}{9} - 0$
$\frac{7}{9} - 0$	$\frac{8}{9} - 0$	$\frac{9}{9} - 0$	$\frac{2}{9} - \frac{1}{9}$	$\frac{3}{9} - \frac{1}{9}$	$\frac{4}{9} - \frac{1}{9}$	$\frac{5}{9} - \frac{1}{9}$	$\frac{6}{9} - \frac{1}{9}$	$\frac{7}{9} - \frac{1}{9}$
$\frac{8}{9} - \frac{1}{9}$	$\frac{9}{9} - \frac{1}{9}$	$\frac{3}{9} - \frac{2}{9}$	$\frac{4}{9} - \frac{2}{9}$	$\frac{5}{9} - \frac{2}{9}$	$\frac{6}{9} - \frac{2}{9}$	$\frac{7}{9} - \frac{2}{9}$	$\frac{8}{9} - \frac{2}{9}$	$\frac{9}{9} - \frac{2}{9}$
$\frac{4}{9} - \frac{3}{9}$	$\frac{5}{9} - \frac{3}{9}$	$\frac{6}{9} - \frac{3}{9}$	$\frac{7}{9} - \frac{3}{9}$	$\frac{8}{9} - \frac{3}{9}$	$\frac{9}{9} - \frac{3}{9}$	$\frac{5}{9} - \frac{4}{9}$	$\frac{6}{9} - \frac{4}{9}$	$\frac{7}{9} - \frac{4}{9}$
$\frac{8}{9} - \frac{4}{9}$	$\frac{9}{9} - \frac{4}{9}$	$\frac{6}{9} - \frac{5}{9}$	$\frac{7}{9} - \frac{5}{9}$	$\frac{8}{9} - \frac{5}{9}$	$\frac{9}{9} - \frac{5}{9}$	$\frac{7}{9} - \frac{6}{9}$	$\frac{8}{9} - \frac{6}{9}$	$\frac{9}{9} - \frac{6}{9}$
$\frac{8}{9} - \frac{7}{9}$	$\frac{9}{9} - \frac{7}{9}$	$\frac{9}{9} - \frac{8}{9}$	$\frac{1}{10} - 0$	$\frac{2}{10} - 0$	$\frac{3}{10} - 0$	$\frac{4}{10} - 0$	$\frac{5}{10} - 0$	$\frac{6}{10} - 0$
$\frac{7}{10} - 0$	$\frac{8}{10} - 0$	$\frac{9}{10} - 0$	$\frac{10}{10} - 0$	$\frac{2}{10} - \frac{1}{10}$	$\frac{3}{10} - \frac{1}{10}$	$\frac{4}{10} - \frac{1}{10}$	$\frac{5}{10} - \frac{1}{10}$	$\frac{6}{10} - \frac{1}{10}$
$\frac{7}{10} - \frac{1}{10}$	$\frac{8}{10} - \frac{1}{10}$	$\frac{9}{10} - \frac{1}{10}$	$\frac{10}{10} - \frac{1}{10}$	$\frac{3}{10} - \frac{2}{10}$	$\frac{4}{10} - \frac{2}{10}$	$\frac{5}{10} - \frac{2}{10}$	$\frac{6}{10} - \frac{2}{10}$	$\frac{7}{10} - \frac{2}{10}$
$\frac{8}{10} - \frac{2}{10}$	$\frac{9}{10} - \frac{2}{10}$	$\frac{10}{10} - \frac{2}{10}$	$\frac{4}{10} - \frac{3}{10}$	$\frac{5}{10} - \frac{3}{10}$	$\frac{6}{10} - \frac{3}{10}$	$\frac{7}{10} - \frac{3}{10}$	$\frac{8}{10} - \frac{3}{10}$	$\frac{9}{10} - \frac{3}{10}$
$\frac{10}{10} - \frac{3}{10}$	$\frac{5}{10} - \frac{4}{10}$	$\frac{6}{10} - \frac{4}{10}$	$\frac{7}{10} - \frac{4}{10}$	$\frac{8}{10} - \frac{4}{10}$	$\frac{9}{10} - \frac{4}{10}$	$\frac{10}{10} - \frac{4}{10}$	$\frac{6}{10} - \frac{5}{10}$	$\frac{7}{10} - \frac{5}{10}$
$\frac{8}{10} - \frac{5}{10}$	$\frac{9}{10} - \frac{5}{10}$	$\frac{10}{10} - \frac{5}{10}$	$\frac{7}{10} - \frac{6}{10}$	$\frac{8}{10} - \frac{6}{10}$	$\frac{9}{10} - \frac{6}{10}$	$\frac{10}{10} - \frac{6}{10}$	$\frac{8}{10} - \frac{7}{10}$	$\frac{9}{10} - \frac{7}{10}$
$\frac{10}{10} - \frac{7}{10}$	$\frac{9}{10} - \frac{8}{10}$	$\frac{10}{10} - \frac{8}{10}$	$\frac{10}{10} - \frac{9}{10}$					



Maak eerst de toets van blok 1 voordat je begint bij blok 2.

Let op:

De toets van blok 1 bestaat uit 3 opgaven.

Met de toets van blok 1 kom je erachter wat je al weet en wat je nog niet weet. Zo kunnen we zien welke onderdelen van dit blok je nog extra moet oefenen.

Denk rustig na en doe je best.

