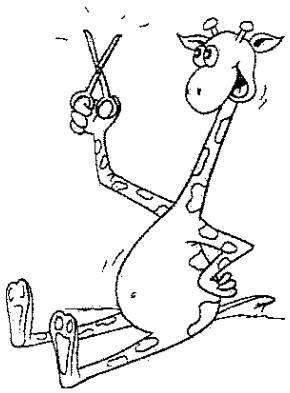
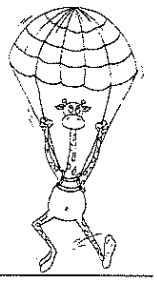
Blok 3 Optellen en aftrekken door de hele heen



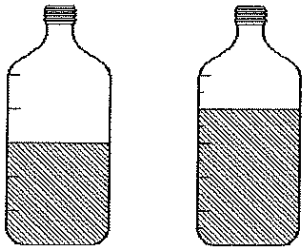
Wat heb je nodig voor dit blok:

- kleurpotloden
- pen
- potlood

Hoeveel is het samen?



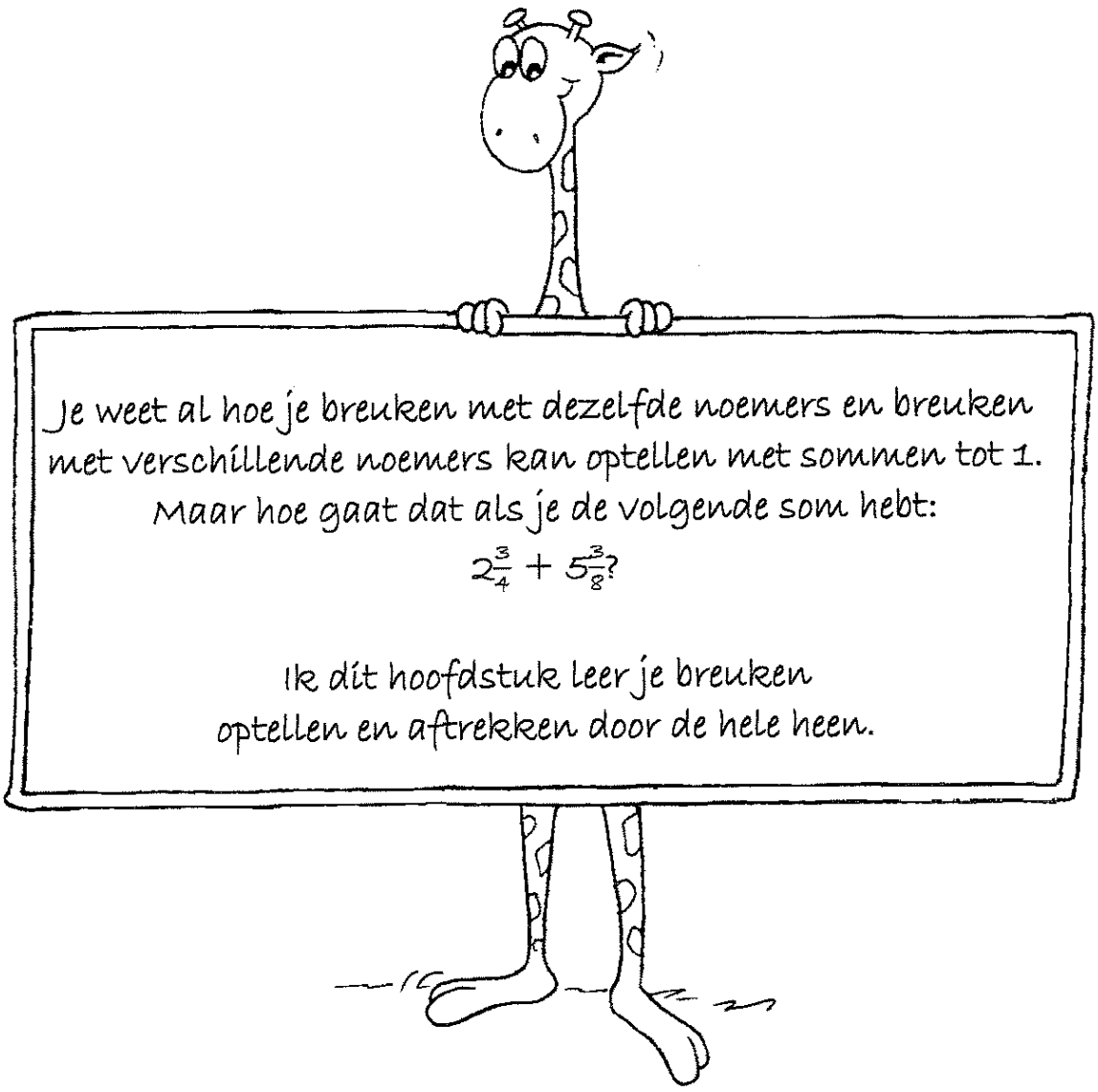
Ilse en Jesse hebben alle twee een fles. In de fles van Ilse zit $\frac{3}{5}$ liter, in de fles van Jesse $\frac{8}{10}$ liter. Hoeveel water hebben ze met z'n tweeën?



Jochem en Jasper plukken aardbeien. Jochem heeft 2 bakken en nog $\frac{3}{4}$ deel van een bak vol. Jasper heeft 3 bakken en $\frac{1}{4}$ deel van een bak vol. Hoeveel bakken hebben ze bij elkaar geplukt?

De kaasboer verkoopt van een belegen kaas 3 stukken. $1\frac{3}{8}$ kilo, $\frac{2}{4}$ kilo en $1\frac{3}{4}$ kilo. Hoeveel kilo van de kaas is verkocht?

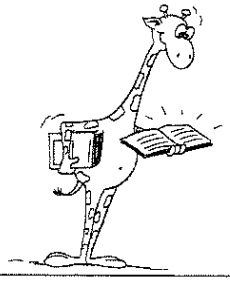
Deze bladzijde ging zo:



Je weet al hoe je breuken met dezelfde noemers en breuken met verschillende noemers kan optellen met sommen tot 1.
Maar hoe gaat dat als je de volgende som hebt:

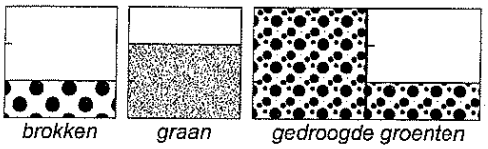
$2\frac{3}{4} + 5\frac{3}{8}$?

In dit hoofdstuk leer je breuken optellen en aftrekken door de hele heen.

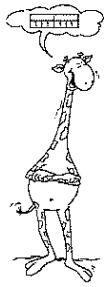


Instructie 1:
Hoeveel kilo konijnenvoer heeft Micha nu op voorraad?

Micha mixt voer voor zijn konijnen. Hij neemt $\frac{1}{3}$ kilo brokken, $\frac{2}{3}$ kilo graan en $1\frac{1}{3}$ kilo gedroogde groenten. Hoeveel kilo konijnenvoer heeft Micha nu op voorraad?



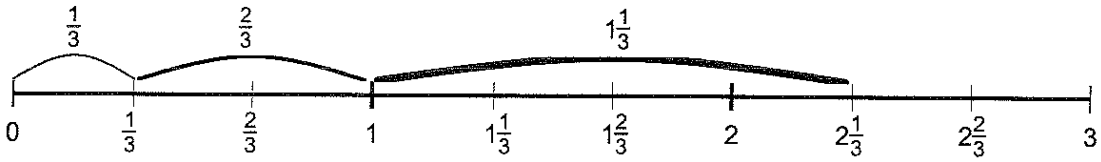
De som is: $\frac{1}{3} + \frac{2}{3} + 1\frac{1}{3} = \ldots$



Met de <u>breukenstroken</u> ziet de som $\frac{1}{3} + \frac{2}{3} + 1\frac{1}{3}$ er zo uit:

$\frac{1}{3} + \frac{2}{3} + \frac{4}{3} = \frac{7}{3}$ of $2\frac{1}{3}$ kilo voer

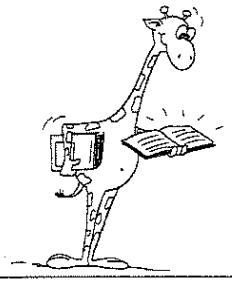
Op de <u>getallenlijn</u> ziet de som $\frac{1}{3} + \frac{2}{3} + 1\frac{1}{3}$ er zo uit:



Een sprong van $\frac{1}{3}$, een van $\frac{2}{3}$ en een van $\frac{4}{3}$ $(1\frac{1}{3})$ is samen $\frac{7}{3}$ of $2\frac{1}{3}$.

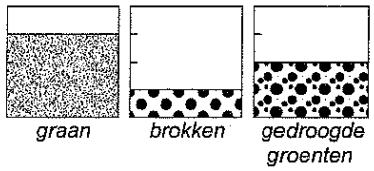
$\frac{1}{3} + \frac{2}{3} + 1\frac{1}{3}$ via <u>handig rekenen</u>:
$\frac{1}{3} + \frac{2}{3} + 1\frac{1}{3}$ wordt $\frac{1}{3} + \frac{2}{3} + \frac{4}{3} = \frac{7}{3}$ of $2\frac{1}{3}$ kilo voer, want we weten $\frac{3}{3} = 1$ en $\frac{6}{3} = 2$.
Als je dit moeilijk vindt, kijk dan nog even naar hoofdstuk 1, blok 7.

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



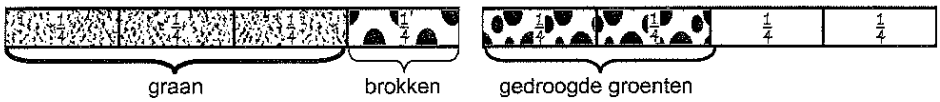
Instructie 1 (vervolg):
Hoeveel kilo caviavoer heeft Josine nu op voorraad?

Josine mengt voer voor haar cavia's. Ze neemt $\frac{3}{4}$ kilo granen, $\frac{1}{4}$ kilo brokken en $\frac{2}{4}$ kilo gedroogde groenten. Hoeveel kilo caviavoer heeft ze nu op voorraad?



De som wordt: $\frac{3}{4} + \frac{1}{4} + \frac{2}{4} = \ldots$

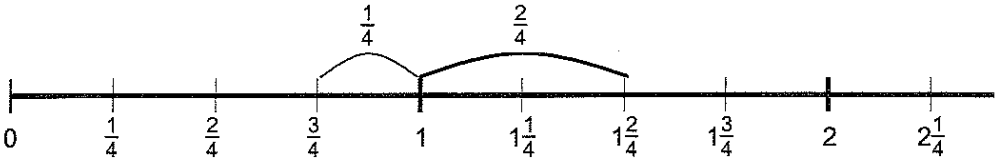
Met de <u>breukenstroken</u> ziet $\frac{3}{4} + \frac{1}{4} + \frac{2}{4}$ er zo uit:



$\frac{3}{4} + \frac{1}{4} = \frac{4}{4}$, dan $\frac{4}{4} + \frac{2}{4} = \frac{6}{4}$ en dat is $1\frac{2}{4}$ kilo voer

Op de <u>getallenlijn</u> ziet $\frac{3}{4} + \frac{1}{4} + \frac{2}{4}$ er zo uit:

$\frac{3}{4} + \frac{1}{4} = \frac{4}{4}$ of 1, dan $1 + \frac{2}{4} = 1\frac{2}{4}$ kilo voer.



$\frac{3}{4} + \frac{1}{4} + \frac{2}{4}$ via <u>handig rekenen</u>:
$\frac{3}{4} + \frac{1}{4} + \frac{2}{4} = \frac{6}{4}$. Ik kan daar een hele ($\frac{4}{4}$) uithalen: 1 en $\frac{2}{4}$ kilo voer of $1\frac{1}{2}$ kilo voer.

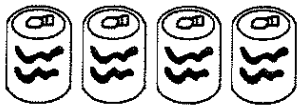
Opdracht: kleur de giraffe van de manier die jij zou gebruiken.

1. Kleur de som. Vul het antwoord in.

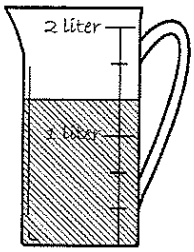
Voorbeeld:

4 blikjes cola is $\frac{1}{3}$ liter + $\frac{1}{3}$ liter + $\frac{1}{3}$ liter + $\frac{1}{3}$ liter.

Hoeveel liter samen? $1\frac{1}{3}$ liter



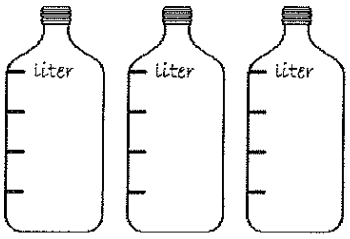
$\frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} = 1\frac{1}{3}$



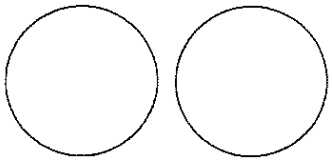
Nu jij:

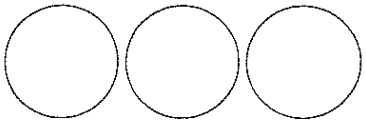
$\frac{2}{3}$ liter spa en $\frac{2}{3}$ liter appelsap.
Hoeveel liter samen?

$\frac{1}{4}$ liter appelsap,
$\frac{3}{4}$ liter sinaasappelsap,
$\frac{3}{4}$ liter druivensap.
Hoeveel liter samen?



Oma eet $\frac{2}{4}$ pannenkoek, opa eet $\frac{3}{4}$ pannenkoek.
Hoeveel pannenkoeken eten ze samen?

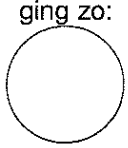


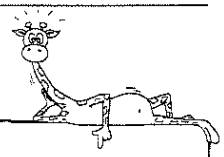


Jos eet $\frac{3}{4}$ pannenkoek,
Flo eet $\frac{3}{4}$ pannenkoek en
Jorien eet $\frac{2}{4}$ pannenkoek.
Hoeveel pannenkoeken eten ze samen?

Bedenk zelf 1 opgave:

Deze bladzijde ging zo:

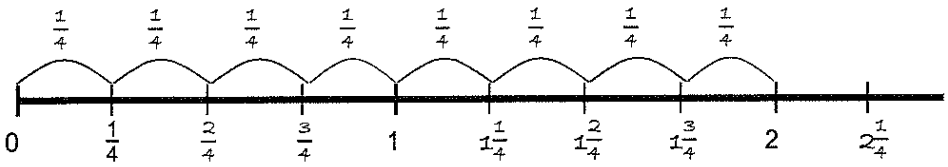




2. Spring door en vul de tussenantwoorden en het antwoord in.

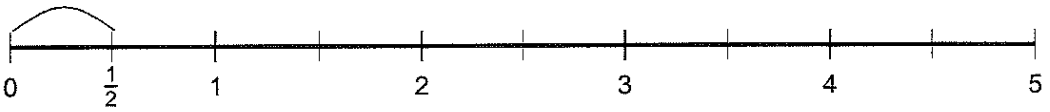
Voorbeeld:

8 sprongen van $\frac{1}{4} = \frac{8}{4}$ of 2



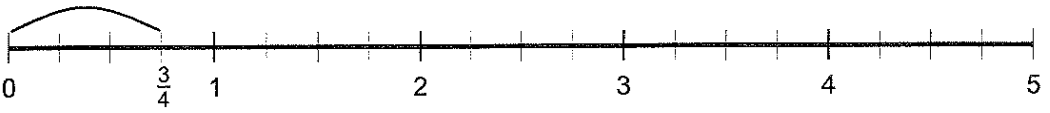
Nu jij:

9 sprongen van $\frac{1}{2}$ =

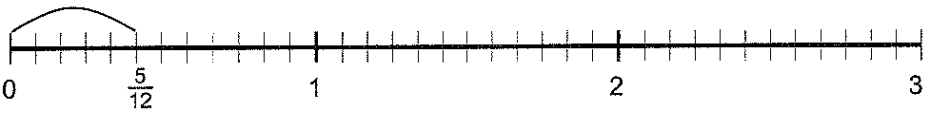


10 sprongen van $\frac{1}{3}$ =

6 sprongen van $\frac{3}{4}$ =

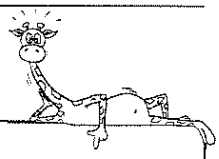


6 sprongen van $\frac{5}{12}$ =



Bedenk zelf 1 opgave:

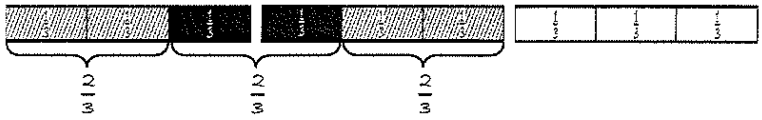
Deze bladzijde ging zo:



3. Kleur de som in de strook in. Vul het antwoord in.

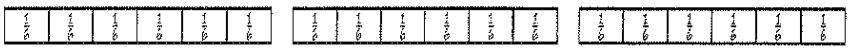
Voorbeeld:

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



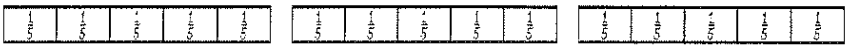
Nu jij:

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

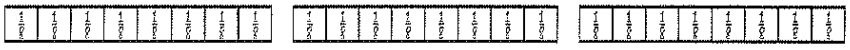


$\frac{3}{4} + \frac{3}{4} + \frac{3}{4} =$

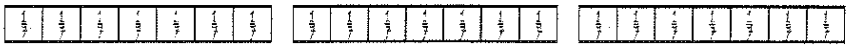
$\frac{4}{5} + \frac{4}{5} + \frac{4}{5} =$



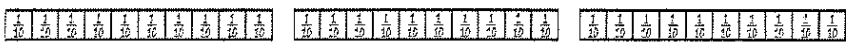
$\frac{5}{8} + \frac{5}{8} + \frac{5}{8} =$



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

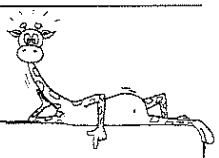


$\frac{8}{10} + \frac{8}{10} + \frac{8}{10} =$



Bedenk zelf 1 opgave:

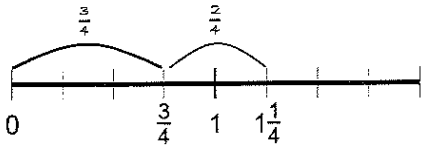
Deze bladzijde ging zo:



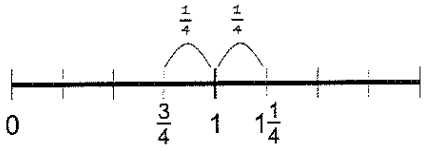
4. Spring de plussommen op de getallenlijn en vul het antwoord in.

Voorbeeld:

$\frac{3}{4} + \frac{2}{4} = \frac{5}{4} = 1\frac{1}{4}$



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

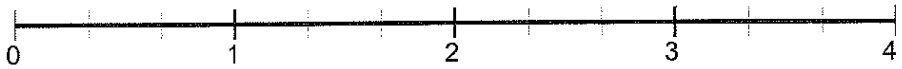


Nu jij:

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

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

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



$\frac{5}{6} + \frac{2}{6} =$

$\frac{5}{8} + \frac{4}{8} =$

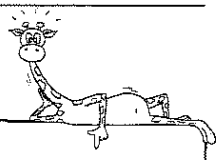
$\frac{2}{4} + \frac{3}{4} =$ _____

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

$\frac{4}{5} + 1\frac{2}{5} =$ _____

Bedenk zelf 1 opgave:

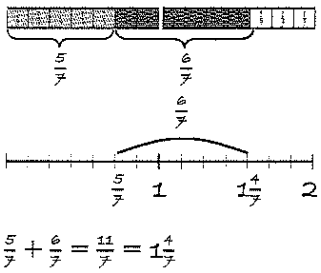
Deze bladzijde ging zo:



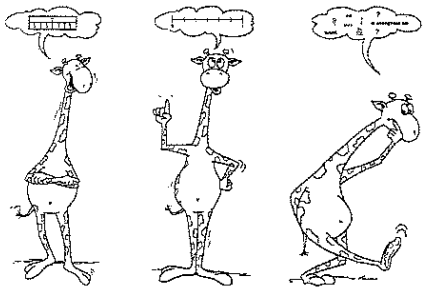
5. Maak de sommen. Gebruik de strook, de getallenlijn of via handig rekenen.

Voorbeeld:

$\frac{5}{7} + \frac{6}{7} = 1\frac{4}{7}$

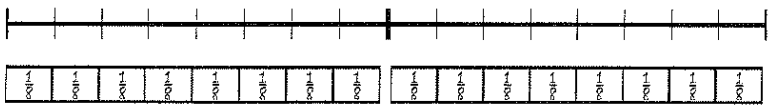


$\frac{5}{7} + \frac{6}{7} = \frac{11}{7} = 1\frac{4}{7}$

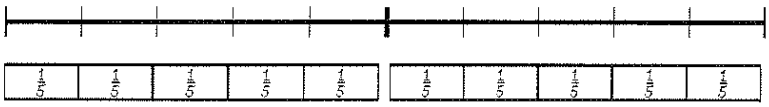


Nu jij:

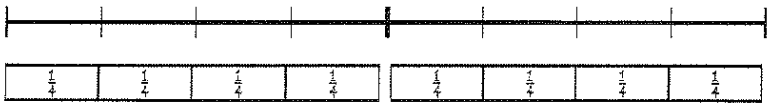
$\frac{5}{8} + \frac{5}{8} =$



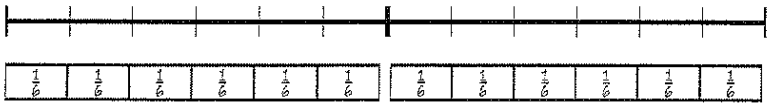
$\frac{3}{5} + \frac{3}{5} =$



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



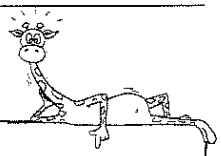
$\frac{5}{6} + \frac{3}{6} =$



Bedenk zelf 1 opgave:

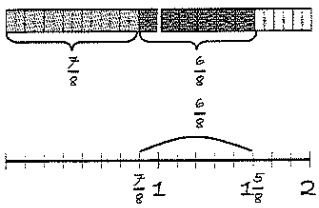
Deze bladzijde ging zo:

6. Maak de sommen. Teken je manier erbij.

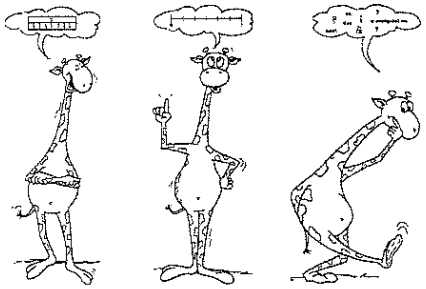


Voorbeeld:

$\frac{7}{8} + \frac{6}{8} = 1\frac{5}{8}$



$\frac{7}{8} + \frac{6}{8} = \frac{13}{8} = 1\frac{5}{8}$



Nu jij:

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

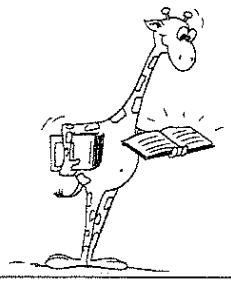
$\frac{5}{6} + \frac{3}{6} =$

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

$1\frac{2}{5} + \frac{4}{5} =$

Bedenk zelf 1 opgave:

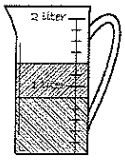
Deze bladzijde ging zo:

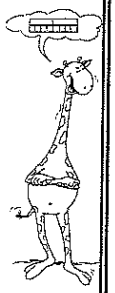


Instructie 2:
Hoeveel melk heeft Dorine nog over in de maatbeker?

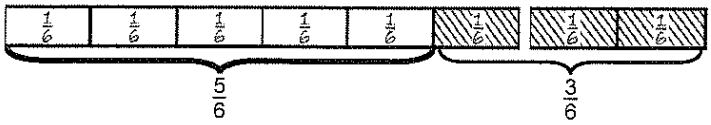
Dorine heeft $1\frac{2}{6}$ liter melk in de maatbeker. Ze gebruikt $\frac{3}{6}$ liter melk voor poffertjes. Hoeveel melk heeft ze nog over in de maatbeker?

De som is: $1\frac{2}{6} - \frac{3}{6} = \frac{5}{6}$ liter



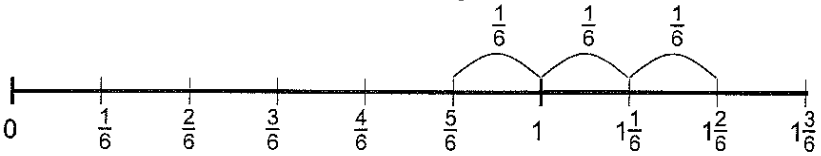


Met de <u>breukenstroken</u> ziet $1\frac{2}{6} - \frac{3}{6}$ er zo uit:



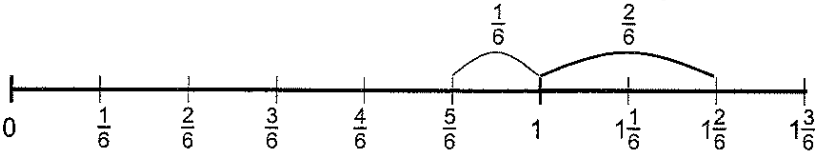
$1\frac{2}{6} - \frac{3}{6}$ wordt $\frac{8}{6} - \frac{3}{6} = \frac{5}{6}$ liter melk

Marit splitst op de <u>getallenlijn</u>:

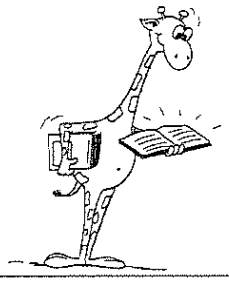


$1\frac{2}{6} - \frac{1}{6} = 1\frac{1}{6}$, dan $1\frac{1}{6} - \frac{1}{6} = 1$ en dan $1 - \frac{1}{6} = \frac{5}{6}$ liter melk.

Richard splitst op de <u>getallenlijn</u>, zodat hij op een mooi getal uitkomt:

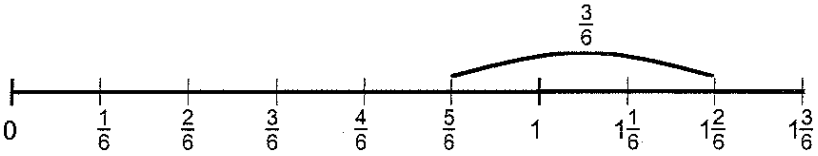


$\frac{3}{6}$ splitst hij in $\frac{2}{6}$ en $\frac{1}{6}$ om op een mooi getal uit te kunnen komen
$1\frac{2}{6} - \frac{3}{6}$ wordt dan $1\frac{2}{6} - \frac{2}{6} = 1$ en $1 - \frac{1}{6} = \frac{5}{6}$ liter melk.



Instructie 2 (vervolg):
Hoeveel melk heeft Dorine nog over in de maatbeker?

Max doet het in één keer op de getallenlijn:



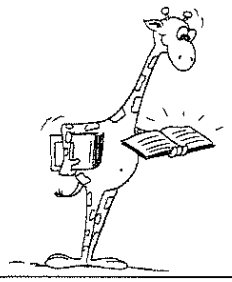
$1\frac{2}{6}$ liter - $\frac{3}{6}$ liter = $\frac{5}{6}$ liter melk over.

$1\frac{2}{6}$ - $\frac{3}{6}$ via handig rekenen:

$1\frac{2}{6}$ - $\frac{3}{6}$ is lastig. Van $1\frac{2}{6}$ maak ik $\frac{8}{6}$.

$\frac{8}{6}$ - $\frac{3}{6}$ = $\frac{5}{6}$. Ze heeft nog $\frac{5}{6}$ liter over in haar maatbeker.

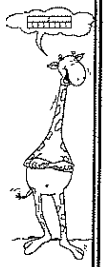
Opdracht: kleur de giraffe van de manier die jij zou gebruiken.



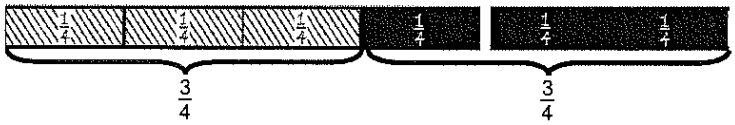
Instructie 2 (vervolg):
Hoeveel chocolademelk heeft Robin nog over?

Robin heeft $1\frac{2}{4}$ liter chocolademelk. Hij schenkt een aantal glazen vol en gebruikt $\frac{3}{4}$ liter. Hoeveel chocolademelk heeft hij nog over?

De som wordt: $1\frac{2}{4} - \frac{3}{4} = \frac{3}{4}$ *liter*

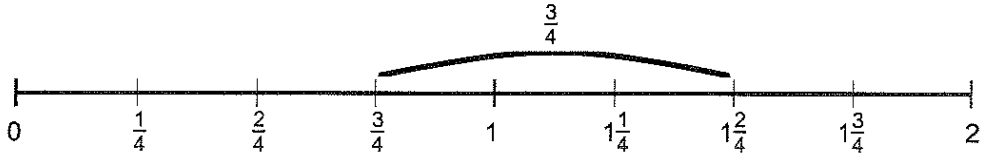


Met de <u>breukenstroken</u> $1\frac{2}{4} - \frac{3}{4}$:



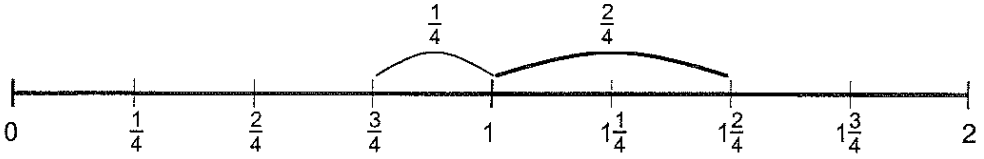
$1\frac{2}{4}$ is hetzelfde als $\frac{6}{4}$. $\frac{6}{4} - \frac{3}{4} = \frac{3}{4}$ liter chocolademelk.

Op de <u>getallenlijn</u> $1\frac{2}{4} - \frac{3}{4}$ in één keer:



$1\frac{2}{4} - \frac{3}{4} = \frac{3}{4}$ liter chocolademelk

Op de <u>getallenlijn</u> $1\frac{2}{4} - \frac{3}{4}$ met handige tussenstap:



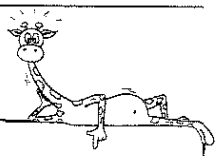
$1\frac{2}{4} - \frac{2}{4} = 1$, $1 - \frac{1}{4} = \frac{3}{4}$. Er is nog $\frac{3}{4}$ liter chocolademelk over.

$1\frac{2}{4} - \frac{3}{4}$ via <u>handig rekenen</u>:

$1\frac{2}{4} - \frac{3}{4}$ is lastig. Van $1\frac{2}{4}$ maak ik $\frac{6}{4}$. $\frac{6}{4} - \frac{3}{4} = \frac{3}{4}$. Hij heeft nog $\frac{3}{4}$ liter over.

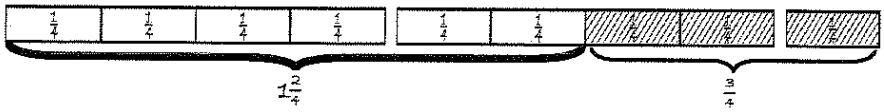
Opdracht: kleur de giraffe van de manier die jij zou gebruiken.

7. Kleur de som. Vul het antwoord in.



Voorbeeld:

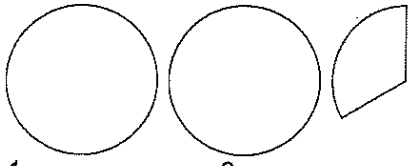
Van $2\frac{1}{4}$ reep heb ik $\frac{3}{4}$ reep opgegeten. Hoeveel heb ik over?



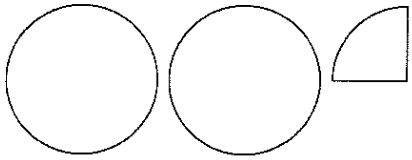
Ik heb nog $1\frac{2}{4}$ reep over.

Nu jij:

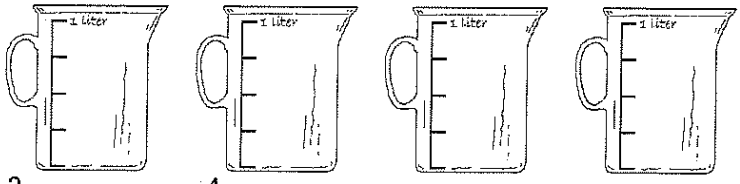
Van $2\frac{1}{3}$ pizza is er $1\frac{2}{3}$ pizza opgegeten. Hoeveel is er over?



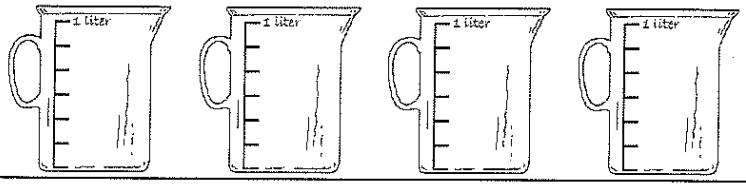
Van $2\frac{1}{4}$ taart is er $1\frac{3}{4}$ taart opgegeten. Hoeveel is er over?



Van $3\frac{2}{4}$ liter is er $2\frac{3}{4}$ liter opgedronken. Hoeveel is er over?

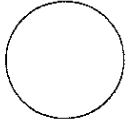


Van $2\frac{2}{6}$ liter is er $1\frac{4}{6}$ liter opgedronken. Hoeveel is er over?

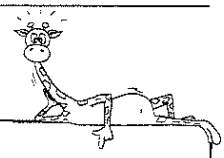


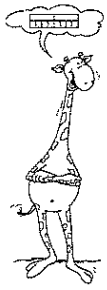
Bedenk zelf 1 opgave:

Deze bladzijde ging zo:



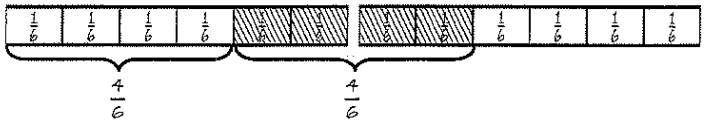
8. Kleur de som in de strook in. Vul het antwoord in.





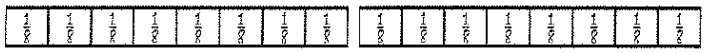
Voorbeeld:

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

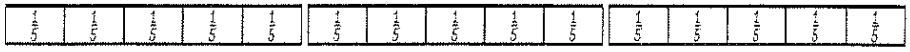


Nu jij:

$1\frac{3}{8} - \frac{5}{8} =$



$2\frac{3}{5} - \frac{4}{5} =$



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

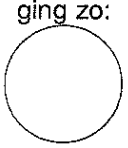
$2\frac{1}{4} - \frac{3}{4} =$

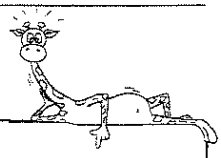
$1\frac{3}{7} - \frac{6}{7} =$

$1\frac{3}{12} - \frac{10}{12} =$

Bedenk zelf 1 opgave:

Deze bladzijde ging zo:

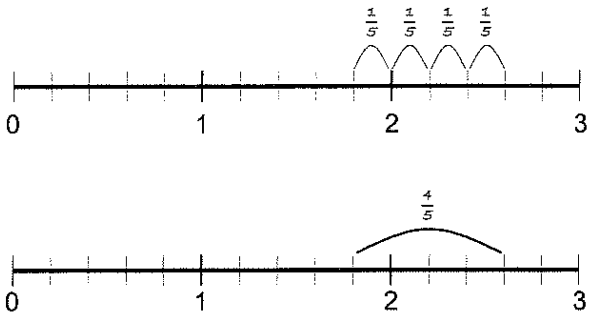




9. Spring de minsom op de getallenlijn en vul het antwoord in.

Voorbeeld:

$2\frac{3}{5} - \frac{4}{5} = 1\frac{4}{5}$

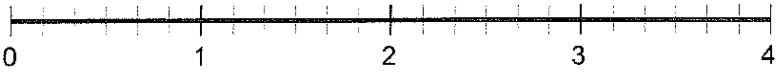


Nu jij:

$1\frac{5}{8} - \frac{6}{8} =$

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

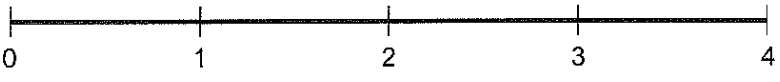
$3\frac{2}{6} - \frac{5}{6} =$



$3\frac{2}{5} - \frac{4}{5} =$

$2\frac{2}{4} - \frac{3}{4} =$

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

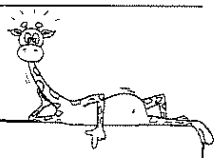


Bedenk zelf 1 opgave:

_____

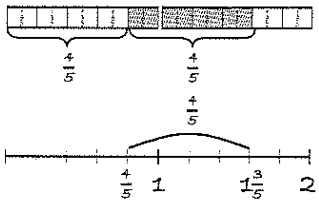
Deze bladzijde ging zo:

10. Maak de sommen. Gebruik de strook, de getallenlijn of uit je hoofd.

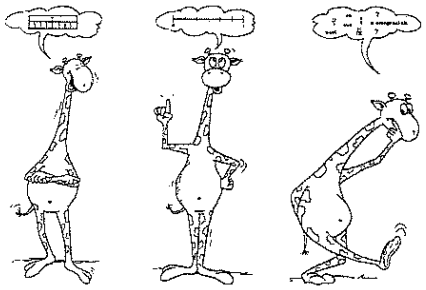


Voorbeeld:

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

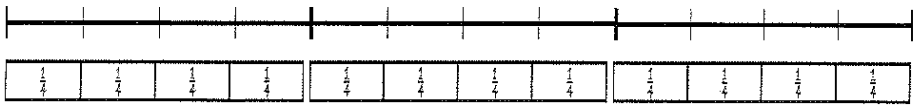


$1\frac{3}{5} - \frac{4}{5}$ is hetzelfde als $\frac{8}{5} - \frac{4}{5} = \frac{4}{5}$

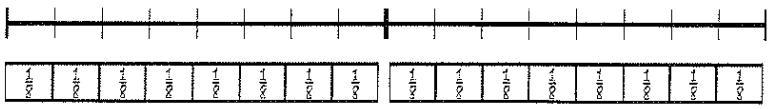


Nu jij:

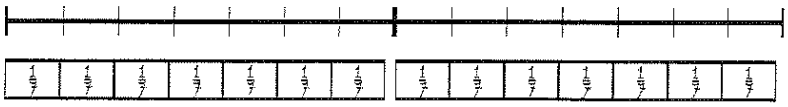
$2\frac{1}{4} - \frac{3}{4} =$



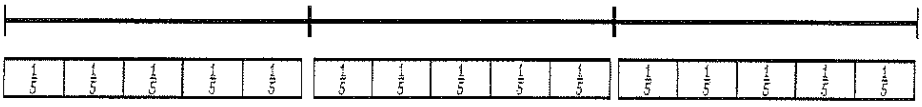
$1\frac{3}{8} - \frac{7}{8} =$



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



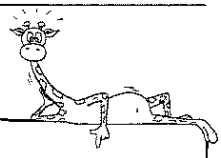
$2\frac{2}{5} - \frac{4}{5} =$



Bedenk zelf 1 opgave:

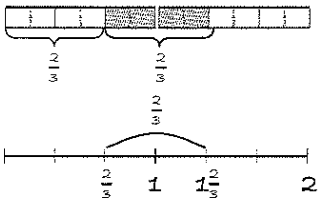
Deze bladzijde ging zo:

11. Maak de sommen. Teken je manier erbij.

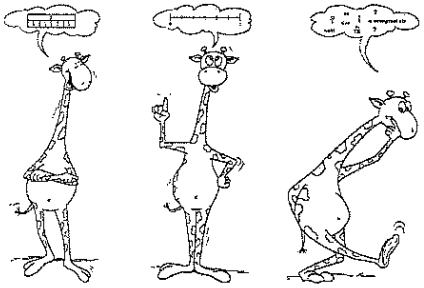


Voorbeeld:

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



$1\frac{2}{3} - \frac{2}{3}$ is hetzelfde als $\frac{4}{3} - \frac{2}{3} = \frac{2}{3}$



Nu jij:

$2\frac{1}{5} - \frac{4}{5} =$

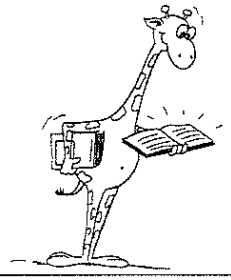
$1\frac{2}{7} - \frac{5}{7} =$

$2\frac{3}{8} - \frac{4}{8} =$

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

Bedenk zelf 1 opgave:

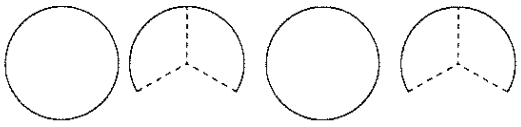
Deze bladzijde ging zo:



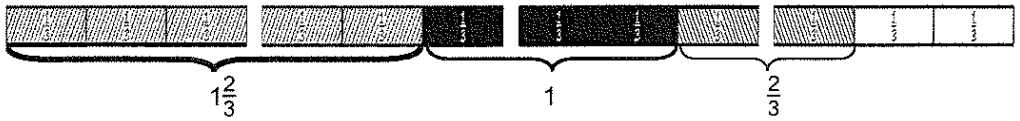
Instructie 3:
Hoeveel taart heeft de bakker in totaal over?

De bakker heeft nog $1\frac{2}{3}$ appeltaart, 1 rijstevlaai en $\frac{2}{3}$ slagroomtaart over aan het einde van de dag. Hoeveel taart heeft de bakker in totaal over?

De som is: $1\frac{2}{3} + 1 + \frac{2}{3} = \ldots$

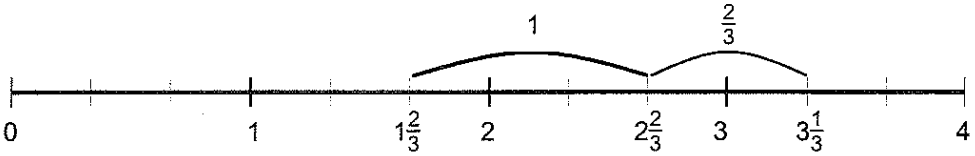


Met de <u>breukenstroken</u> ziet $1\frac{2}{3} + 1 + \frac{2}{3}$ er zo uit:



Er worden eerst derden van gemaakt: $1\frac{2}{3} + 1 + \frac{2}{3}$ wordt $\frac{5}{3} + \frac{3}{3} + \frac{2}{3} = \frac{10}{3} = 3\frac{1}{3}$

Op de <u>getallenlijn</u> ziet de som $1\frac{2}{3} + 1 + \frac{2}{3}$ er zo uit:



De som wordt in stukjes gehakt: $1\frac{2}{3} + 1 = 2\frac{2}{3}$, $2\frac{2}{3} + \frac{2}{3} = 3\frac{1}{3}$

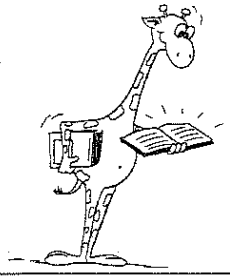
Je kan $1\frac{2}{3} + 1 + \frac{2}{3}$ ook uitrekenen via <u>handig rekenen</u>:

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

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

Eerst de helen bij elkaar en dan de breuken bij elkaar optellen.

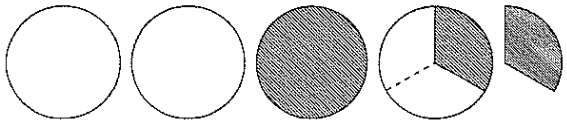
Opdracht: kleur de giraffe van de manier die jij zou gebruiken.

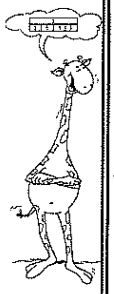


Instructie 3 (vervolg):
Hoeveel taart heeft de bakker nog?

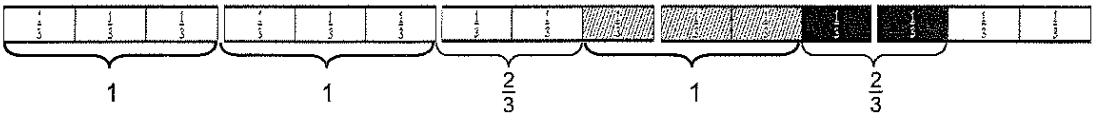
De bakker verkoopt van de $4\frac{1}{3}$ taart uit de vitrine $1\frac{2}{3}$ taart. Hoeveel taart heeft de bakker nog?

De som wordt: $4\frac{1}{3} - 1\frac{2}{3} = \ldots$



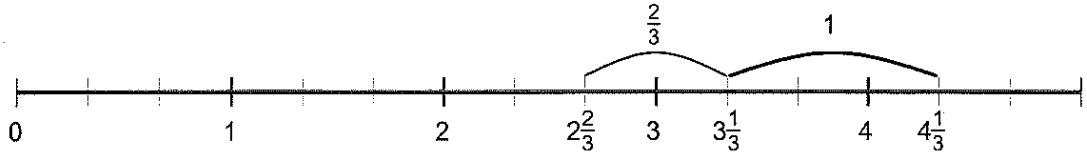


Met de <u>breukenstroken</u> ziet $4\frac{1}{3} - 1\frac{2}{3}$ er zo uit:

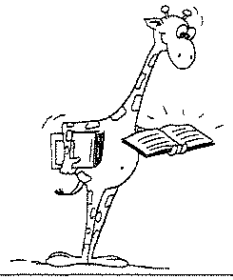


$4\frac{1}{3} - 1\frac{2}{3}$ wordt eerst $4\frac{1}{3} - \frac{2}{3} = 3$ hele stroken en $\frac{2}{3}$ strook. Dan nog 1 eraf.
$3\frac{2}{3} - 1$ wordt 2 hele stroken en $\frac{2}{3}$ strook.

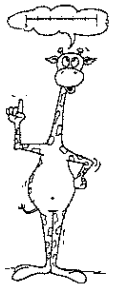
Op de <u>getallenlijn</u> ziet $4\frac{1}{3} - 1\frac{2}{3}$ er zo uit:



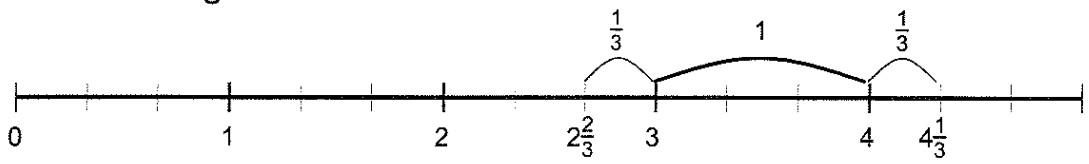
$4\frac{1}{3} - 1\frac{2}{3} = \ldots$
$1\frac{2}{3}$ splits ik in 2 sprongen: een sprong van 1 en een sprong van $\frac{2}{3}$.
$4\frac{1}{3} - 1\frac{2}{3}$ wordt $4\frac{1}{3} - 1 = 3\frac{1}{3}$ en $3\frac{1}{3} - \frac{2}{3} = 2\frac{2}{3}$.



Instructie 3 (vervolg):
Hoeveel taart heeft de bakker in totaal over?



Je kan ook gebruik maken van de helen:

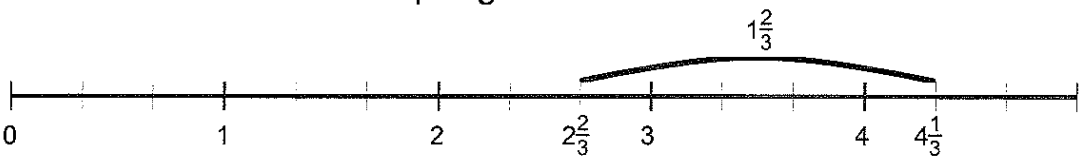


$4\frac{1}{3} - 1\frac{2}{3} = \ldots$

$4\frac{1}{3} - \frac{1}{3} = 4$, (dan moet er nog $1\frac{1}{3}$ af). $4 - 1 = 3$ (dan moet er nog $\frac{1}{3}$ af).

$3 - \frac{1}{3} = 2\frac{2}{3}$.

Je kan ook in één keer springen:



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

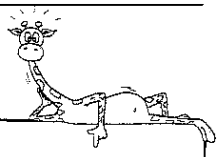
$4\frac{1}{3} - 1\frac{2}{3}$ via <u>handig rekenen</u>:

$4\frac{1}{3} - 1\frac{2}{3} = \ldots$ Ik maak er allemaal derden van: $\frac{13}{3} - \frac{5}{3} = \frac{8}{3}$ of $2\frac{2}{3}$ of

$4\frac{1}{3} - 1\frac{2}{3} = 4\frac{1}{3} - 1 - \frac{2}{3} = 3\frac{1}{3} - \frac{2}{3} = 2\frac{2}{3}$.

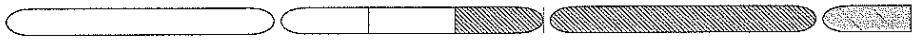
Opdracht: kleur de giraffe van de manier die jij zou gebruiken.

12. Kleur de som en schrijf het antwoord erbij.



Voorbeeld:

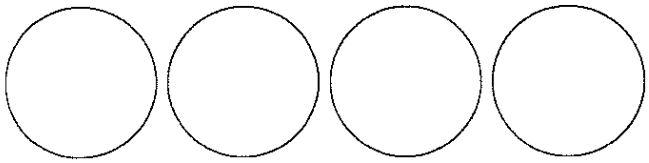
Van $3\frac{1}{3}$ stokbrood wordt $1\frac{2}{3}$ stokbrood opgegeten.
Hoeveel stokbrood is er nog over?

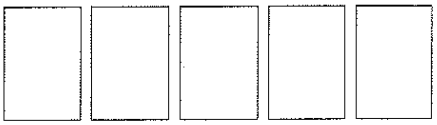


($3\frac{1}{3} - 1\frac{2}{3} = 1\frac{2}{3}$.) Nog $1\frac{2}{3}$ over.

Nu jij:

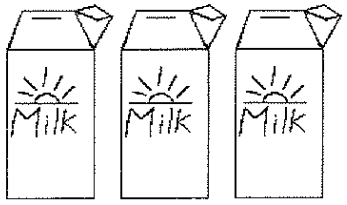
Ik heb 4 koeken. Ik eet $1\frac{1}{2}$ koek op. Hoeveel koek heb ik over?





$2\frac{2}{3}$ kilo caviavoer. Ik vul aan met $1\frac{2}{3}$ kilo. Hoeveel kilo heb ik dan?

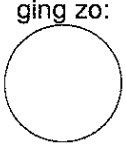
Er staat $2\frac{1}{4}$ liter melk in de koelkast.
$\frac{3}{4}$ liter wordt gebruikt.
Hoeveel heb je nog over?



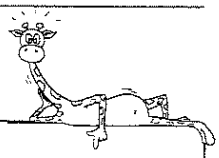
Ik heb $1\frac{4}{6}$ liter sap. Er wordt $1\frac{3}{6}$ liter bijgevuld. Hoeveel heb ik nu?

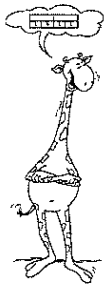
Bedenk zelf 1 opgave:

Deze bladzijde ging zo:



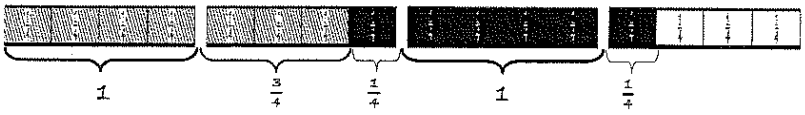
13. Kleur de som in de strook in. Vul het antwoord in.





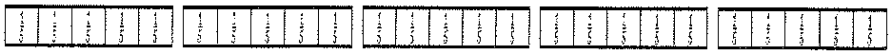
Voorbeeld:

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



Nu jij:

$2\frac{3}{5} + 1\frac{4}{5} =$



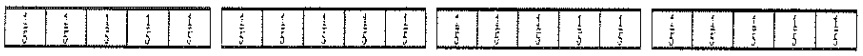
$1\frac{5}{6} + 1\frac{3}{6} =$

$2\frac{7}{8} + 1\frac{5}{8} =$

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

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

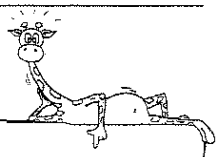
$3\frac{3}{5} - 1\frac{2}{5} =$



Bedenk zelf 1 opgave:

Deze bladzijde ging zo:

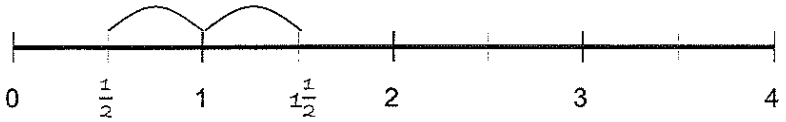
14. Spring 2 kanten op en maak de sommen.



Voorbeeld:

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

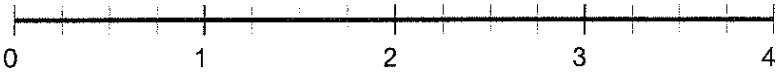
$1-\frac{1}{2}=\frac{1}{2}$



Nu jij:

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

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

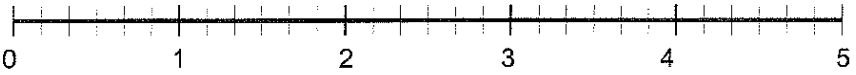


$2+\frac{5}{12}=$

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

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

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

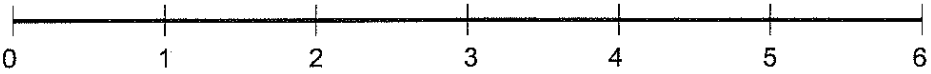


$3+\frac{2}{3}=$

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

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

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



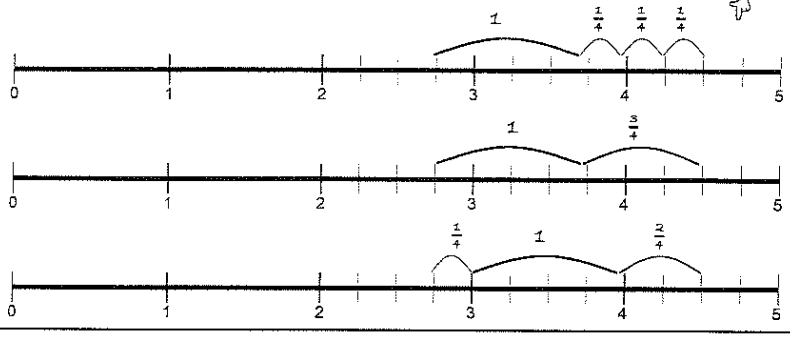
Bedenk zelf 1 opgave:

Deze bladzijde ging zo:

15. Maak de plussommen op de getallenlijn op jouw manier.

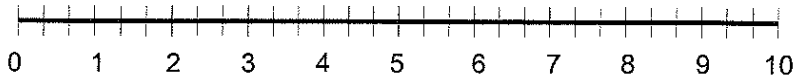
Voorbeeld:

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

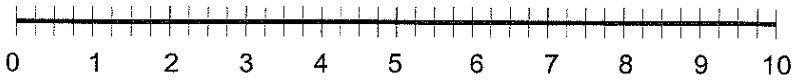


Nu jij:

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

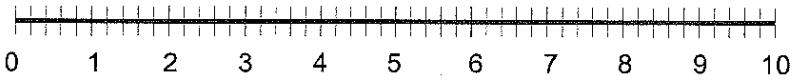


$5\frac{2}{4} + 3\frac{3}{4} =$



$4\frac{3}{6} + 3\frac{5}{6} =$

$2\frac{2}{5} + 1\frac{4}{5} =$



$7\frac{3}{4} + 1\frac{3}{4} =$

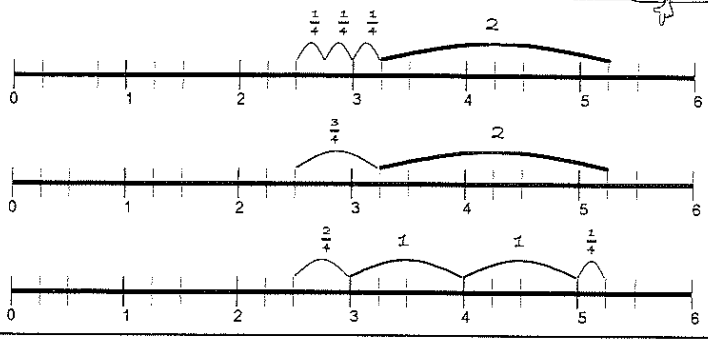
Bedenk zelf 1 opgave:

Deze bladzijde ging zo:

16. Maak de minsommen op de getallenlijn op jouw manier.

Voorbeeld:

$5\frac{1}{4} - 2\frac{3}{4} = 2\frac{2}{4} = 2\frac{1}{2}$



Nu jij:

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

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

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

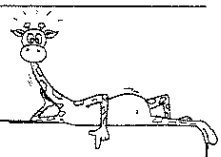
$3\frac{3}{5} - 1\frac{4}{5} =$

$3\frac{2}{8} - 2\frac{7}{8} =$

Bedenk zelf 1 opgave:

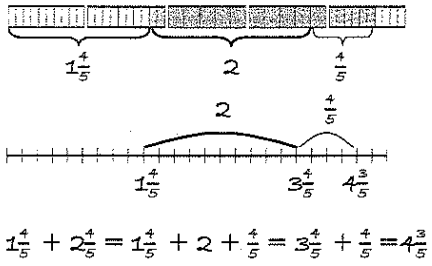
Deze bladzijde ging zo:

17. Maak de plussommen. Laat zien hoe je rekent.

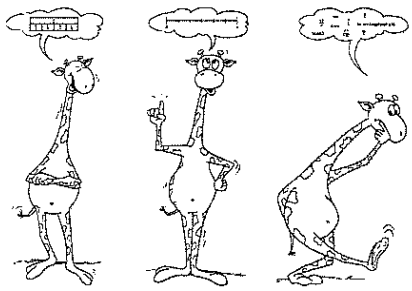


Voorbeeld:

$1\frac{4}{5} + 2\frac{4}{5} = 4\frac{3}{5}$

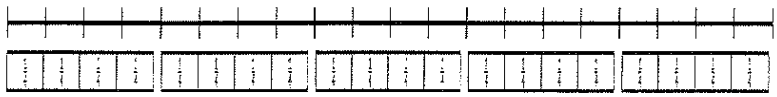


$1\frac{4}{5} + 2\frac{4}{5} = 1\frac{4}{5} + 2 + \frac{4}{5} = 3\frac{4}{5} + \frac{4}{5} = 4\frac{3}{5}$

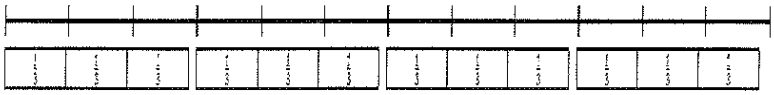


Nu jij:

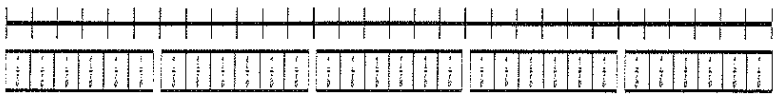
$2\frac{3}{4} + 1\frac{3}{4} =$



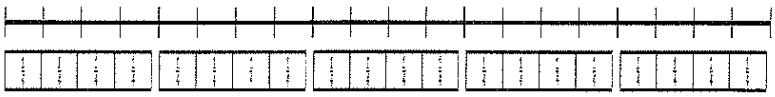
$1\frac{2}{3} + 1\frac{2}{3} =$



$2\frac{5}{6} + 1\frac{3}{6} =$

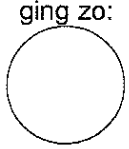


$1\frac{3}{4} + 2\frac{2}{4} =$



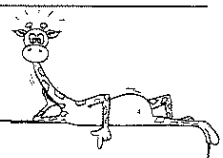
Bedenk zelf 1 opgave:

Deze bladzijde ging zo:



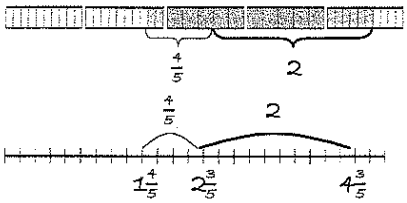

Heb je een breukensom met + of -?
En zijn er getallen met vierden en helen?
Dan kun je op heel veel manieren gaan rekenen.
Als je maar weet: een hele is $\frac{4}{4}$ delen.

18. Maak de minsommen. Laat zien hoe je rekent.

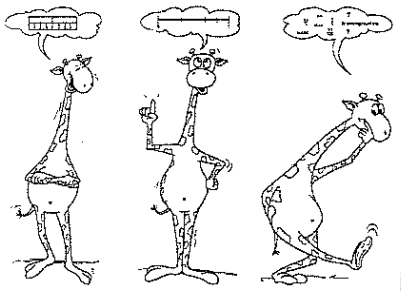


Voorbeeld:

$4\frac{3}{5} - 2\frac{4}{5} = 1\frac{4}{5}$

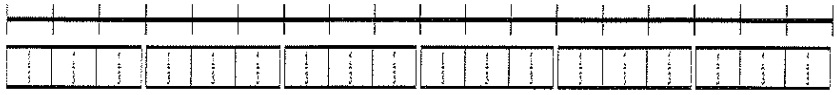


$4\frac{3}{5} - 2\frac{4}{5} = 4\frac{3}{5} - 2 - \frac{4}{5} = 2\frac{3}{5} - \frac{4}{5} = 1\frac{4}{5}$

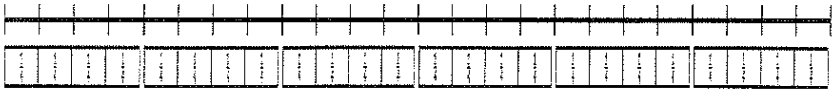


Nu jij:

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

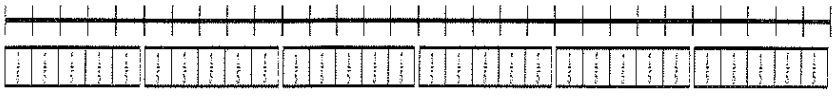


$5\frac{1}{4} - 2\frac{3}{4} =$



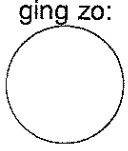
$5\frac{3}{6} - 2\frac{5}{6} =$

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

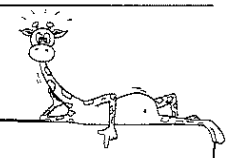


Bedenk zelf 1 opgave:

Deze bladzijde ging zo:



19. Maak samen 5.



Voorbeeld:

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

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

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

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

Nu jij:

2 getallen zijn samen 5

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

$1\frac{5}{12}$ $4\frac{7}{12}$ $3\frac{3}{12}$ $\frac{5}{12}$

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

3 getallen zijn samen 5

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

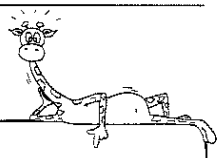
$\frac{5}{12}$ $2\frac{7}{12}$ $1\frac{2}{12}$ $3\frac{5}{12}$

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

Bedenk zelf 1 opgave:

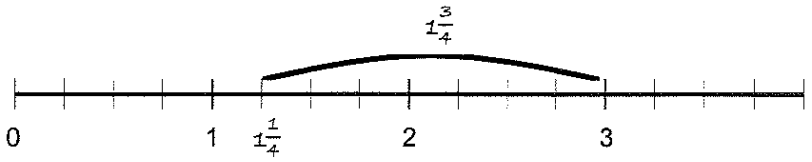
Deze bladzijde ging zo:

20. Maak de sprongen en vul de vleksom in. Samen 3.



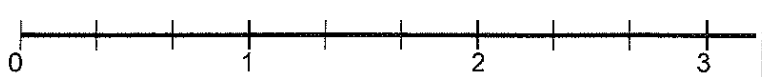
Voorbeeld:

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



Nu jij:

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



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

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

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

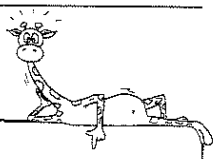
$1\frac{5}{6} + \square = 3$

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

Bedenk zelf 1 opgave:

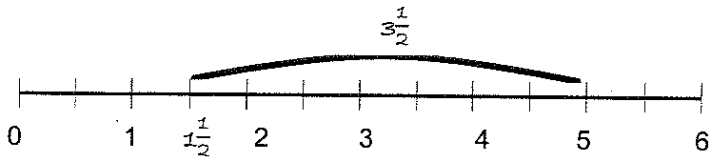
Deze bladzijde ging zo:

21. Maak de sprong en teken de vleksom.



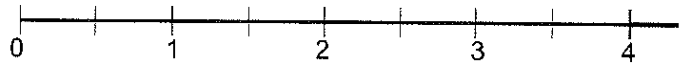
Voorbeeld:

$5 - \text{☆} = 1\frac{1}{2}$ ☆ = $3\frac{1}{2}$

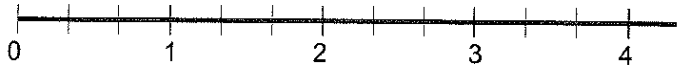


Nu jij:

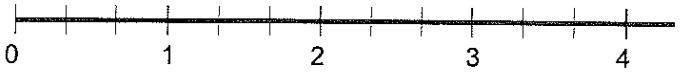
$1\frac{1}{2} - \text{☆} = \frac{1}{2}$



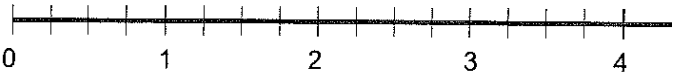
$3\frac{1}{3} - \text{☆} = 1\frac{1}{3}$



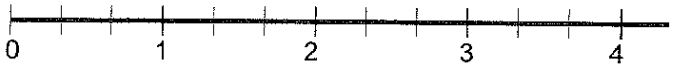
$2\frac{1}{3} - \text{☆} = \frac{2}{3}$



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



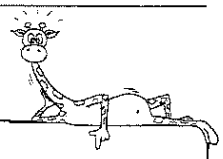
$3\frac{2}{3} - \text{☆} = 2\frac{1}{3}$



Bedenk zelf 1 opgave:

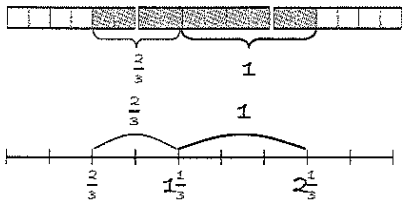
Deze bladzijde ging zo:

22. Maak de sommen. Laat zien hoe je rekent.

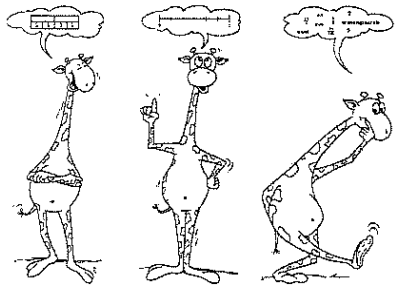


Voorbeeld:

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



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



Nu jij:

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

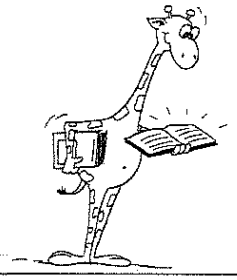
$1\frac{3}{4} + 1\frac{2}{4} =$

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

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

Bedenk zelf 1 opgave:

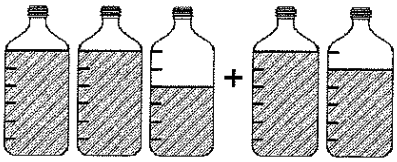
Deze bladzijde ging zo:



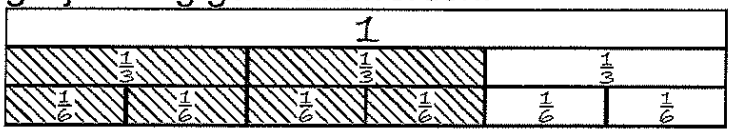
Instructie 4:
Hoeveel liter sap is er in totaal nog op voorraad?

Voor het kamp is er nog $2\frac{2}{3}$ liter appelsap en nog $1\frac{5}{6}$ liter sinaasappelsap. Hoeveel liter sap is er in totaal nog op voorraad?

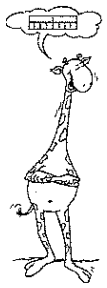
De som wordt $2\frac{2}{3} + 1\frac{5}{6} = \ldots$



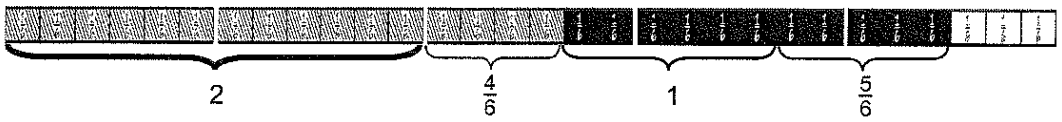
Om deze som uit te kunnen rekenen moeten de breuken eerst gelijknamig gemaakt worden:



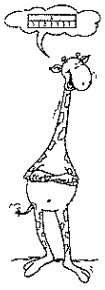
Van $\frac{2}{3}$ kan je $\frac{4}{6}$ maken. $2\frac{2}{3} + 1\frac{5}{6}$ wordt dan $2\frac{4}{6} + 1\frac{5}{6}$.



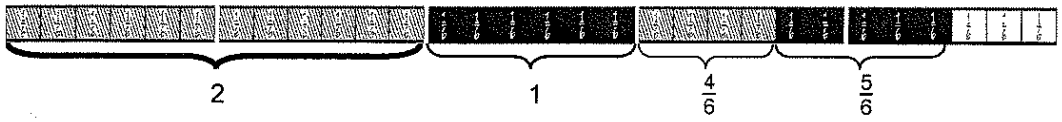
Uitrekenen van $2\frac{4}{6} + 1\frac{5}{6}$ met de <u>breukenstroken</u>:



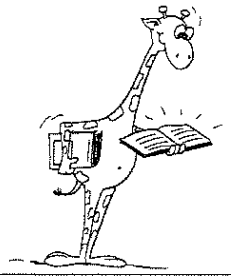
$2\frac{4}{6} + 1\frac{5}{6}$ wordt dan 4 hele stroken en 3 stukjes van $\frac{1}{6}$ deel.
Dat is samen $4\frac{3}{6}$ deel of $4\frac{1}{2}$.



of $2\frac{4}{6} + 1\frac{5}{6}$ op de <u>breukenstroken</u> via splitsen:



$2\frac{4}{6} + 1\frac{5}{6} = \ldots$ Ik doe eerst 2 + 1 = 3 hele stroken. $3 + \frac{4}{6} + \frac{5}{6} = 3\frac{9}{6}$.
$3\frac{9}{6}$, daar kan ik nog een hele strook uithalen. $3\frac{9}{6}$ wordt $4\frac{3}{6}$ of $4\frac{1}{2}$.

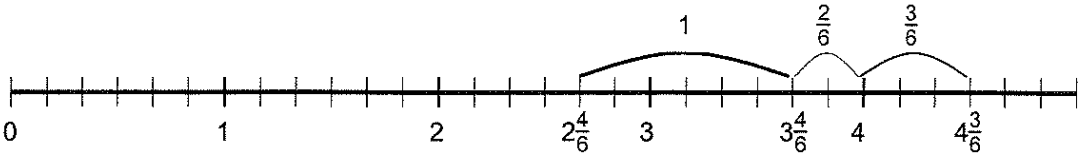


Instructie 4 (vervolg):
Hoeveel liter sap is er in totaal nog op voorraad?

$2\frac{2}{3} + 1\frac{5}{6}$ werd $2\frac{4}{6} + 1\frac{5}{6}$

Op de getallenlijn ziet de som $2\frac{4}{6} + 1\frac{5}{6}$ er zo uit:

$2\frac{2}{3} + 1\frac{5}{6}$ wordt $2\frac{4}{6} + 1\frac{5}{6}$

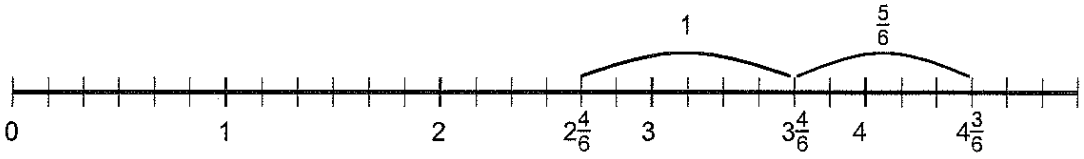


Ik spring eerst met de helen en dan met de breuk: $2\frac{4}{6} + 1 = 3\frac{4}{6}$.

Dan maak ik eerst de hele vol $3\frac{4}{6} + \frac{2}{6} = 3\frac{6}{6}$ of 4.

Dan tel ik op wat er over is: ik moest een sprong maken van $\frac{5}{6}$ en ik heb al een sprong van $\frac{2}{6}$ gemaakt, dus ik heb nog $\frac{3}{6}$ over. $4 + \frac{3}{6} = 4\frac{3}{6}$ of $4\frac{1}{2}$.

Op de getallenlijn kan je $2\frac{4}{6} + 1\frac{5}{6}$ ook zo springen:



$2\frac{4}{6} + 1\frac{5}{6} = \ldots$

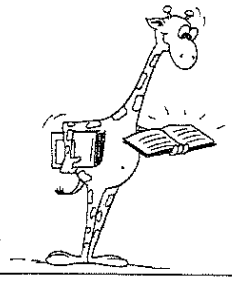
Ik doe eerst een sprong van de helen en dan de breuk.

$2\frac{4}{6} + 1 = 3\frac{4}{6}$, $3\frac{4}{6} + \frac{5}{6} = 4\frac{3}{6}$ of $4\frac{1}{2}$

$2\frac{4}{6} + 1\frac{5}{6}$ via handig rekenen:

Ik tel eerst de helen bij elkaar op. $2\frac{4}{6} + 1\frac{5}{6} = 3 + \frac{4}{6} + \frac{5}{6} = 3\frac{9}{6} = 4\frac{3}{6}$ of $4\frac{1}{2}$

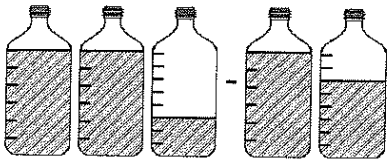
Opdracht: kleur de giraffe van de manier die jij zou gebruiken.



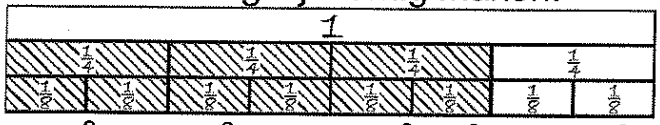
Instructie 4 (vervolg):
Hoe groot is de sapvoorraad nog?

De voorraad sap op kamp is nog $2\frac{3}{8}$ liter. Er wordt $1\frac{3}{4}$ liter sap opgedronken. Hoe groot is de sapvoorraad nog?

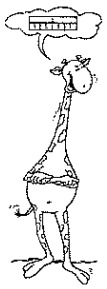
De som: $2\frac{3}{8} - 1\frac{3}{4} = \ldots$



Eerst de som gelijknamig maken:



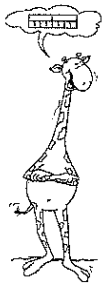
Van $\frac{3}{4}$ kan je $\frac{6}{8}$ maken. $2\frac{3}{8} - 1\frac{3}{4}$ wordt $2\frac{3}{8} - 1\frac{6}{8}$.



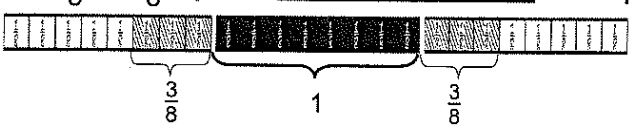
Met de <u>breukenstroken</u> ziet $2\frac{3}{8} - 1\frac{6}{8}$ er zo uit:

$2\frac{3}{8} - 1\frac{6}{8}$: eerst 1 eraf en dan $\frac{6}{8}$ deel eraf.

Het antwoord kan je aflezen: $\frac{5}{8}$ deel.



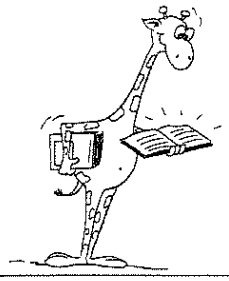
of $2\frac{3}{8} - 1\frac{6}{8}$ op de <u>breukenstroken</u> via splitsen:



$2\frac{3}{8} - 1\frac{6}{8}$: wordt $2\frac{3}{8} - \frac{3}{8} - 1 - \frac{3}{8}$.

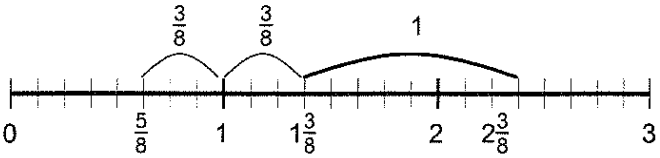
Eerst $\frac{3}{8}$ deel eraf, dan kom je op 2 helen. Dan de hele eraf: 2 - 1 = 1.

Dan het laatste $\frac{3}{8}$ deel eraf. Het antwoord kan je aflezen: $\frac{5}{8}$ deel.



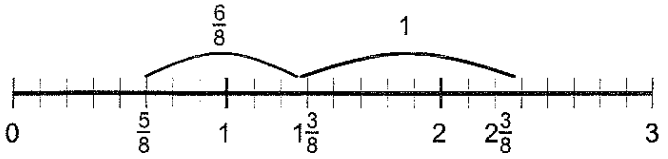
Instructie 4 (vervolg):
Hoe groot is de sapvoorraad nog?

Op de <u>getallenlijn</u> wordt $2\frac{3}{8} - 1\frac{6}{8}$:



Ik doe eerst een sprong van de helen en dan de breuk.
$2\frac{3}{8} - 1 = 1\frac{3}{8}$.
Ik spring eerst naar de hele $1\frac{3}{8} - \frac{3}{8} = 1$. Ik moest een sprong maken van $\frac{6}{8}$ en ik heb al een sprong van $\frac{3}{8}$ gemaakt, dus nu nog $\frac{3}{8}$ sprong.
$1 - \frac{3}{8} = \frac{5}{8}$.

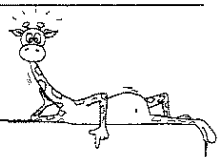
of $2\frac{3}{8} - 1\frac{6}{8}$ in één keer springen op de <u>getallenlijn</u>:



Ik doe eerst een sprong van de helen en dan de breuk.
$2\frac{3}{8} - 1 = 1\frac{3}{8}$ en $1\frac{3}{8} - \frac{6}{8}$ wordt $\frac{5}{8}$.

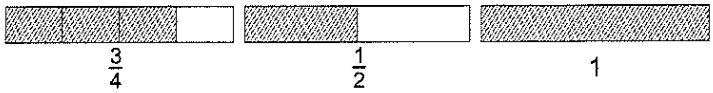
Met <u>handig rekenen</u> wordt $2\frac{3}{8} - 1\frac{6}{8}$:
Ik maak er allemaal achtsten van: $2\frac{3}{8} = \frac{19}{8}$, $1\frac{6}{8} = \frac{14}{8}$.
Ik maak dan de som: $\frac{19}{8} - \frac{14}{8} = \frac{5}{8}$.

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



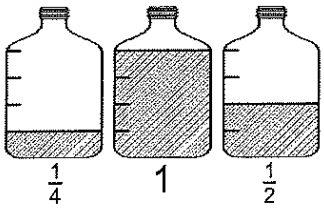
23. Hoeveel is het samen? Schrijf je antwoord op.

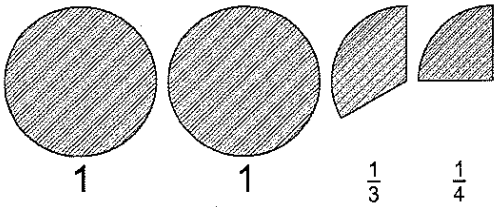
Voorbeeld:

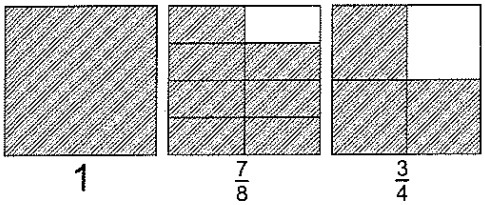


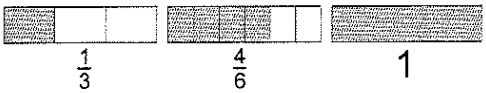
$\frac{3}{4} + \frac{1}{2} + 1 = \frac{3}{4} + \frac{2}{4} + 1 = 1\frac{5}{4} = 2\frac{1}{4}$

Nu jij:



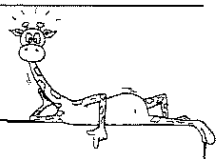




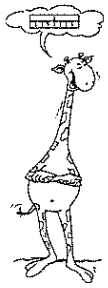


Bedenk zelf 1 opgave:

Deze bladzijde ging zo:

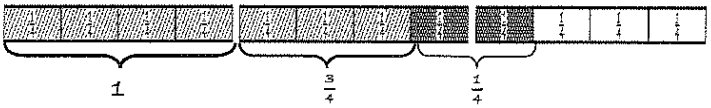


24. Kleur de som in de strook in. Vul het antwoord in.
Eerst gelijknamig maken.



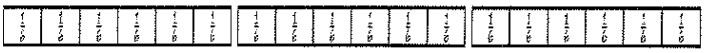
Voorbeeld:

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

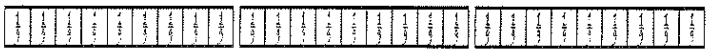


Nu jij:

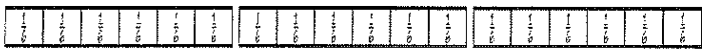
$1\frac{5}{6} + \frac{1}{3} =$



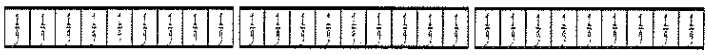
$1\frac{1}{3} + 1\frac{2}{9} =$



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

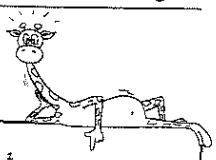


$2\frac{4}{9} - 1\frac{2}{3} =$



Bedenk zelf 1 opgave:

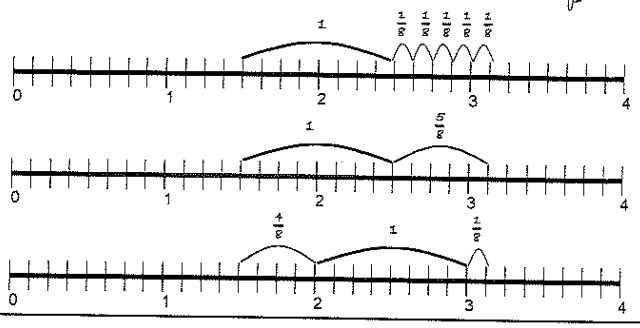
Deze bladzijde ging zo:



25. Maak de plussommen op de getallenlijn op jouw manier.

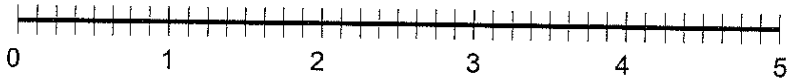
Voorbeeld:

$1\frac{1}{2} + 1\frac{5}{8} = 1\frac{4}{8} + 1\frac{5}{8} = 3\frac{1}{8}$

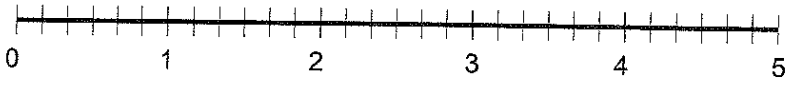


Nu jij:

$2\frac{3}{4} + 1\frac{5}{8} =$



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

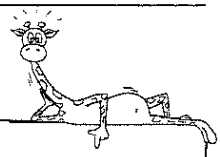


$2\frac{3}{5} + 1\frac{7}{10} =$

$2\frac{2}{3} + 1\frac{5}{9} =$

Bedenk zelf 1 opgave:

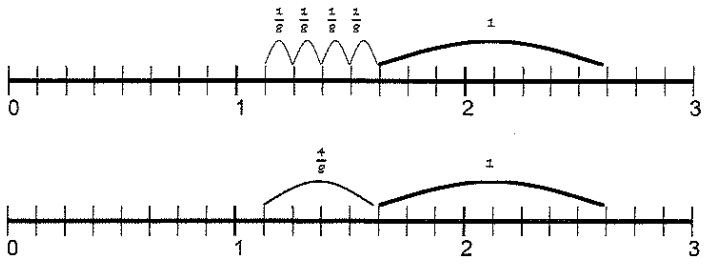
Deze bladzijde ging zo:



26. Maak de minsommen op de getallenlijn op jouw manier.

Voorbeeld:

$2\frac{5}{8} - 1\frac{2}{4} = 2\frac{5}{8} - 1\frac{4}{8} = 1\frac{1}{8}$

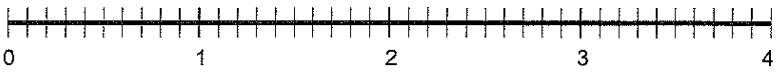


Nu jij:

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

$2\frac{8}{12} - 1\frac{3}{6} =$

$3\frac{7}{10} - 2\frac{3}{5} =$

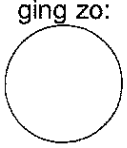


$2\frac{5}{9} - 1\frac{2}{3} =$

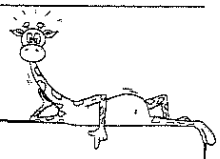
$3\frac{6}{12} - 2\frac{2}{3} =$

Bedenk zelf 1 opgave:

Deze bladzijde ging zo:

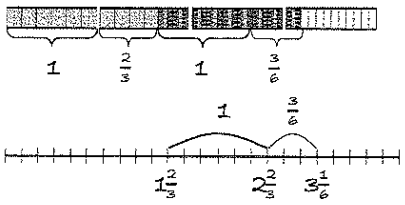


27. Maak de plussommen. Eerst gelijknamig maken.
Laat zien hoe je rekent.

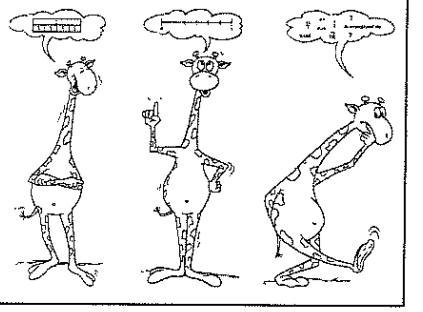


Voorbeeld:

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

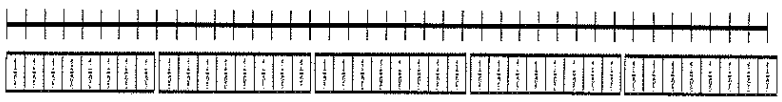


$1\frac{2}{3} + 1\frac{3}{6} = 1\frac{4}{6} + 1\frac{3}{6} = 2\frac{7}{6} = 3\frac{1}{6}$



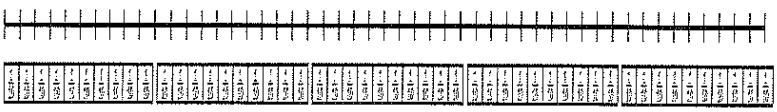
Nu jij:

$2\frac{1}{4} + 1\frac{7}{8} =$

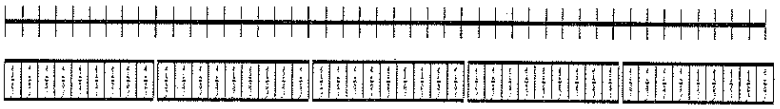


$1\frac{4}{6} + 1\frac{11}{12} =$

$2\frac{4}{5} + 1\frac{8}{10} =$



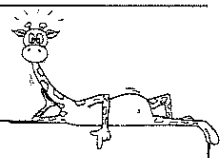
$2\frac{1}{3} + 1\frac{7}{9} =$



Bedenk zelf 1 opgave:

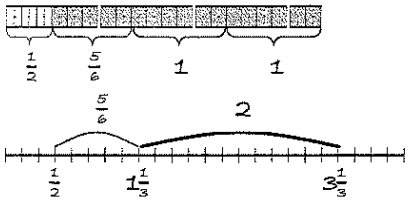
Deze bladzijde ging zo:

28. Maak de minsommen. Laat zien hoe je rekent.

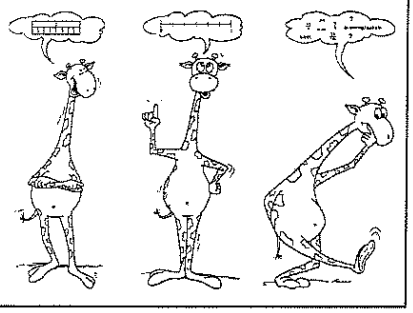


Voorbeeld:

$3\frac{1}{3} - 2\frac{5}{6} = \frac{1}{2}$

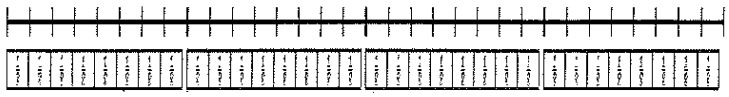


$3\frac{1}{3} - 2\frac{5}{6} = 3\frac{2}{6} - 2 - \frac{5}{6} = 1\frac{2}{6} - \frac{5}{6} = \frac{3}{6} = \frac{1}{2}$

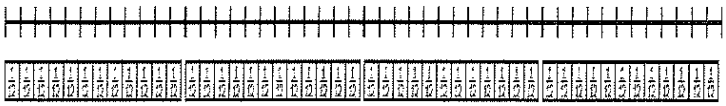


Nu jij:

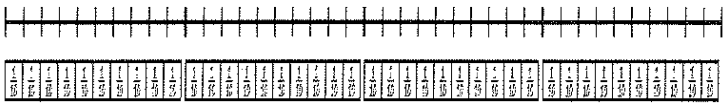
$2\frac{4}{8} - 1\frac{3}{4} =$



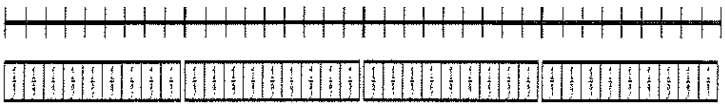
$2\frac{9}{12} - 1\frac{5}{6} =$



$3\frac{8}{10} - 2\frac{6}{5} =$



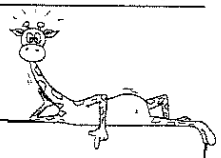
$2\frac{1}{9} - 1\frac{2}{3} =$



Bedenk zelf 1 opgave:

Deze bladzijde ging zo:

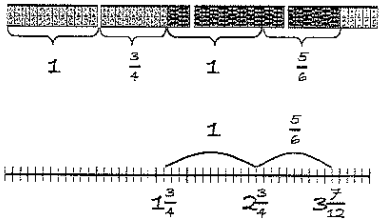
29. Maak de sommen. Laat zien hoe je rekent.



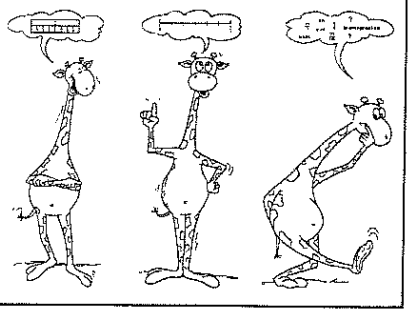
Voorbeeld:

$1\frac{3}{4} + 1\frac{5}{6} = 3\frac{7}{12}$

$4\frac{1}{3} - 2\frac{3}{4} = 1\frac{7}{12}$



$1\frac{3}{4} + 1\frac{5}{6} = 1\frac{9}{12} + 1\frac{10}{12} = 2\frac{19}{12} = 3\frac{7}{12}$



Nu jij:

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

$3\frac{1}{2} + 1\frac{7}{8} =$

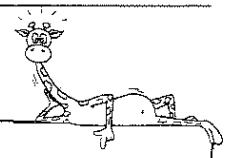
$2\frac{3}{4} - 2\frac{2}{3} =$

$3\frac{1}{2} - 1\frac{7}{8} =$

Bedenk zelf 1 opgave:

Deze bladzijde ging zo:

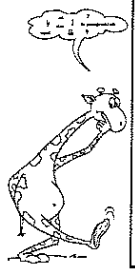
30. Wat is het verschil? Reken uit.



Voorbeeld:

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

gelijknamig maken: $\frac{3}{4} = \frac{9}{12}$ $\frac{1}{3} = \frac{4}{12}$ } het verschil is $\frac{5}{12}$



Nu jij:

$\frac{1}{5}$ en $\frac{5}{15}$

$\frac{2}{3}$ en $\frac{5}{9}$

$\frac{5}{6}$ en $\frac{3}{4}$

$\frac{2}{3}$ en $\frac{2}{5}$

$\frac{3}{5}$ en $\frac{3}{6}$

$\frac{7}{8}$ en $\frac{2}{3}$

$\frac{5}{9}$ en $\frac{1}{2}$

$\frac{3}{4}$ en $\frac{5}{8}$

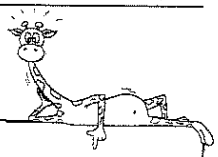
$\frac{3}{4}$ en $\frac{12}{16}$

$\frac{4}{5}$ en $\frac{4}{15}$

Bedenk zelf 1 opgave:

Deze bladzijde ging zo:

31. Schat de uitkomst. Hoeveel ongeveer?



Voorbeeld:

$\frac{1}{4} + \frac{1}{5} \approx \frac{1}{2}$ $\left(\frac{1}{4} + \frac{1}{5} \approx \frac{1}{4} + \frac{1}{4} \approx \frac{1}{2}\right)$

Nu jij:

$\frac{1}{3} + \frac{1}{12} \approx$

$\frac{1}{4} + \frac{1}{16} \approx$

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

$\frac{1}{10} + \frac{1}{2} \approx$

$\frac{1}{4} + \frac{1}{20} \approx$

$\frac{1}{6} + \frac{2}{12} \approx$

$\frac{3}{6} - \frac{1}{12} \approx$

$\frac{3}{9} - \frac{1}{15} \approx$

$\frac{4}{16} - \frac{1}{20} \approx$

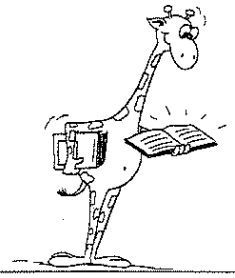
$\frac{4}{10} - \frac{1}{15} \approx$

$\frac{6}{8} - \frac{1}{12} \approx$

$\frac{6}{12} - \frac{1}{8} \approx$

Bedenk zelf 1 opgave:

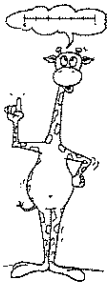
Deze bladzijde ging zo:



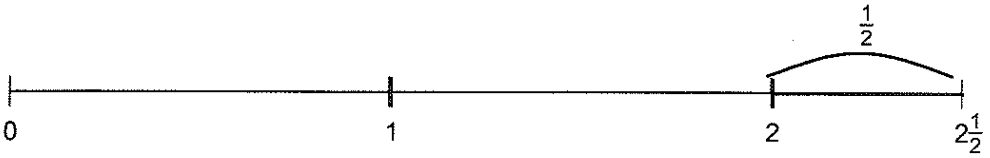
Instructie 5:
Hoe ziet de som 2 + $\frac{1}{2}$ eruit op de losse getallenlijn?

Hoe ziet de som 2 + $\frac{1}{2}$ eruit op de losse getallenlijn?

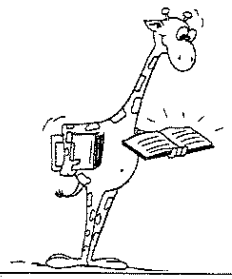
De som: 2 + $\frac{1}{2}$ = …



of op de korte manier:



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



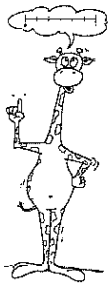
Instructie 5 (vervolg):
Hoe ziet de som $5\frac{1}{2} + 1\frac{3}{6}$ eruit op de losse getallenlijn?

Hoe ziet de som $5\frac{1}{2} + 1\frac{3}{6}$ eruit op de losse getallenlijn?

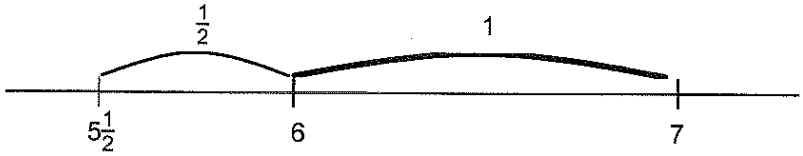
De som: $5\frac{1}{2} + 1\frac{3}{6} = \ldots$

Eerst een gelijke noemer geven. Ik kan $\frac{3}{6}$ vereenvoudigen in $\frac{1}{2}$.

$5\frac{1}{2} + 1\frac{3}{6} = 5\frac{1}{2} + 1\frac{1}{2}$.

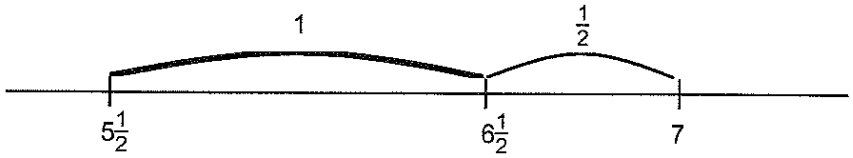


$5\frac{1}{2} + 1\frac{1}{2}$: Je kan eerst de hele volmaken op de getallenlijn:



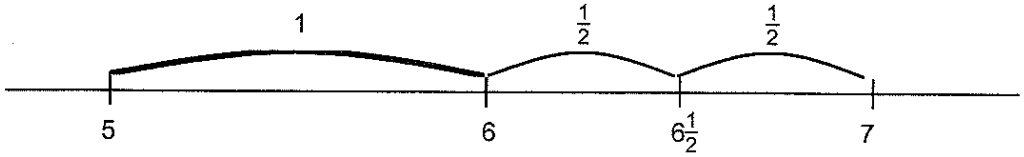
$5\frac{1}{2} + \frac{1}{2} = 6$ en $6 + 1 = 7$.

$5\frac{1}{2} + 1\frac{1}{2}$: Je kan ook eerst de hele optellen op de getallenlijn:

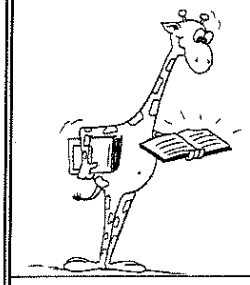


$5\frac{1}{2} + 1 = 6\frac{1}{2}$ en $6\frac{1}{2} + \frac{1}{2} = 7$.

$5\frac{1}{2} + 1\frac{1}{2}$: Je kan ook splitsen op de getallenlijn:



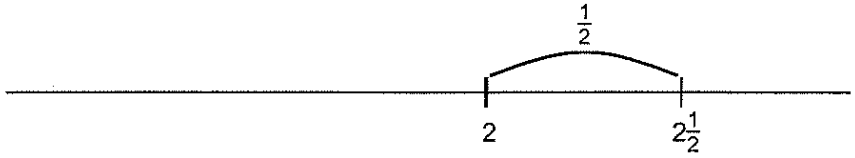
$5\frac{1}{2} + 1\frac{1}{2} = 5 + 1 + \frac{1}{2} + \frac{1}{2} = 7$.



Instructie 5 (vervolg):
Hoe ziet de som $2\frac{1}{2} - \frac{1}{2}$ eruit op de losse getallenlijn?

Hoe ziet de som $2\frac{1}{2} - \frac{1}{2}$ eruit op de losse getallenlijn?

De som: $2\frac{1}{2} - \frac{1}{2}$ = … op de <u>getallenlijn</u>:

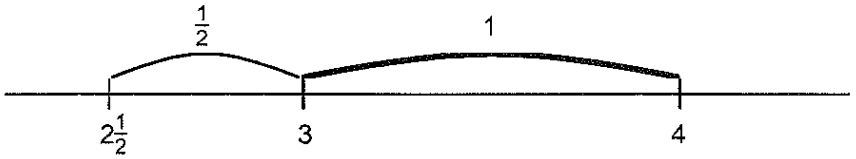


Het antwoord: $2\frac{1}{2} - \frac{1}{2} = 2$

Hoe ziet de som $4 - 1\frac{1}{2}$ eruit op de lege getallenlijn?

De som: $4 - 1\frac{1}{2}$

$4 - 1\frac{1}{2}$: Je kan eerst de hele aftrekken op de <u>getallenlijn</u>:

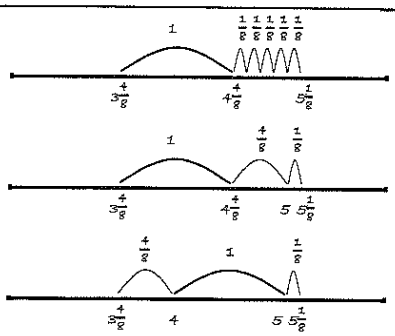


Het antwoord: $4 - 1 = 3$, $3 - \frac{1}{2} = 2\frac{1}{2}$.

32. Maak de plussommen. Gebruik de losse getallenlijn.

Voorbeeld:

$3\frac{1}{2} + 1\frac{5}{8} = 3\frac{4}{8} + 1\frac{5}{8} = 5\frac{1}{8}$



Nu jij:

$\frac{5}{8} + \frac{7}{8} =$ _____

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

$2\frac{3}{4} + 1\frac{3}{8} =$ _____

$2\frac{3}{5} + 2\frac{6}{10} =$ _____

$2\frac{4}{6} + 2\frac{1}{3} =$ _____

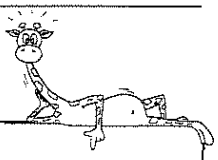
$3\frac{3}{8} + 2\frac{1}{4} =$ _____

Bedenk zelf 1 opgave:

_____

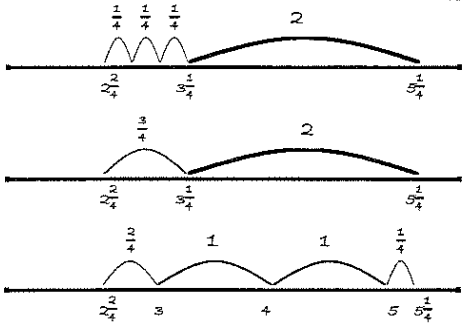
Deze bladzijde ging zo:

33. Maak de minsommen. Gebruik de losse getallenlijn.



Voorbeeld:

$5\frac{1}{4} - 2\frac{3}{4} = 2\frac{1}{2}$



Nu jij:

$1\frac{3}{6} - \frac{4}{6} =$ _____

$3\frac{3}{6} - 1\frac{5}{6} =$ _____

$4 - 1\frac{3}{8} =$ _____

$3\frac{3}{6} - 2\frac{1}{2} =$ _____

$4\frac{2}{4} - 2\frac{5}{8} =$ _____

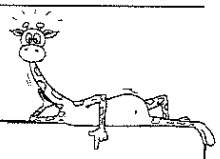
$3\frac{2}{5} - 1\frac{3}{10} =$ _____

Bedenk zelf 1 opgave:

_____

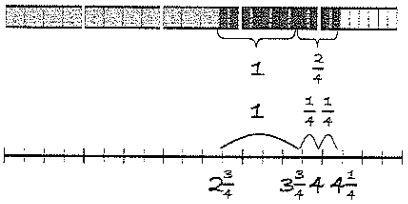
Deze bladzijde ging zo:

34. Maak de plussommen op jouw manier.

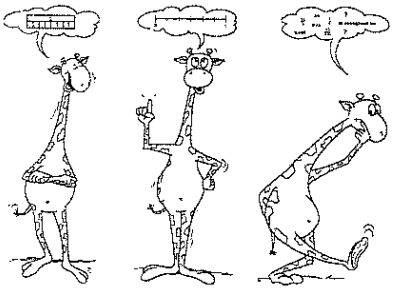


Voorbeeld:

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



$2\frac{3}{4} + 1\frac{3}{4} = 3\frac{5}{4} = 4\frac{1}{4}$



Nu jij:

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

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

$2\frac{3}{5} + 1\frac{4}{5} =$

$2\frac{2}{3} + 2\frac{4}{6} =$

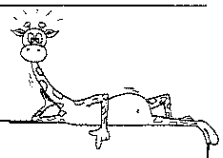
$2\frac{6}{9} + 2\frac{1}{3} =$

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

Bedenk zelf 1 opgave:

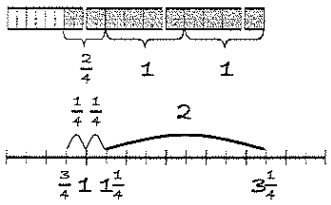
Deze bladzijde ging zo:

35. Maak de minsommen op jouw manier.

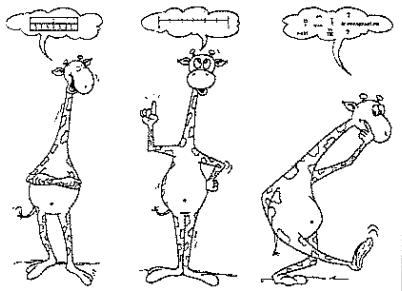


Voorbeeld:

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



$3\frac{1}{4} - 2\frac{2}{4} = 2\frac{5}{4} - 2\frac{2}{4} = \frac{3}{4}$



Nu jij:

$1\frac{3}{9} - \frac{4}{9} =$

$3\frac{2}{5} - 1\frac{3}{5} =$

$6 - 2\frac{5}{7} =$

$1\frac{2}{9} - \frac{2}{3} =$

$4\frac{3}{4} - 2\frac{7}{8} =$

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

Bedenk zelf 1 opgave:

Deze bladzijde ging zo:

Je wist al hoe je breuken met dezelfde noemers en breuken met verschillende noemers kan optellen met sommen tot 1.
Maar hoe gaat dat als je de volgende som hebt:

$2\frac{3}{4} + 5\frac{3}{8}$?

Je kan nu breuken
optellen en aftrekken door de hele heen.

Maak eerst de toets van blok 3 voordat je begint bij blok 4.

Let op:

De toets van blok 3 bestaat uit
3 opgaven.
Met de toets van blok 3 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.