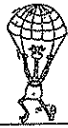


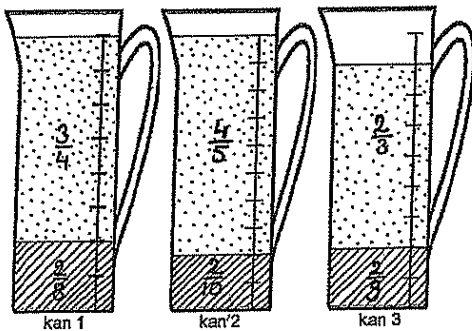
Tekenen en kleur.



Kan 1: Je neemt $\frac{2}{3}$ liter siroop en $\frac{2}{3}$ liter water. Hoeveel liter limonade heb je bij elkaar gemaakt? 1 liter

Kan 2: Je neemt $\frac{2}{10}$ liter siroop en $\frac{4}{5}$ liter water. Hoeveel liter limonade heb je bij elkaar gemaakt? 1 liter

Kan 3: Je neemt $\frac{2}{5}$ liter siroop en $\frac{2}{5}$ liter water. Hoeveel liter limonade heb je bij elkaar gemaakt? $\frac{4}{5} \text{ liter}$



3. Maak de sommen. Maak eerst gelijke noemers. Kijk goed naar de stroken.

Nu jij: (meerdere antwoorden mogelijk)

$$\frac{2}{6} + \frac{6}{12} = \frac{2}{6} + \frac{3}{6} = \frac{5}{6}$$

$$\frac{2}{6} - \frac{1}{3} = \frac{2}{6} - \frac{2}{6} = \frac{0}{6}$$

$$\frac{1}{3} + \frac{8}{12} = \frac{4}{12} + \frac{8}{12} = \frac{12}{12}$$

$$\frac{7}{12} - \frac{3}{8} = \frac{14}{24} - \frac{9}{24} = \frac{5}{24}$$

$$\frac{5}{12} + \frac{3}{6} = \frac{5}{12} + \frac{6}{12} = \frac{11}{12}$$

$$\frac{5}{6} - \frac{5}{12} = \frac{10}{12} - \frac{5}{12} = \frac{5}{12}$$

$$\frac{2}{3} + \frac{2}{12} = \frac{8}{12} + \frac{2}{12} = \frac{10}{12}$$

$$\frac{2}{3} - \frac{3}{6} = \frac{4}{6} - \frac{3}{6} = \frac{1}{6}$$

$$\frac{5}{6} + \frac{1}{12} = \frac{10}{12} + \frac{1}{12} = \frac{11}{12}$$

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

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

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

$$\frac{1}{6} + \frac{9}{12} = \frac{2}{12} + \frac{9}{12} = \frac{11}{12}$$

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

$$\frac{5}{12} + \frac{1}{3} = \frac{5}{12} + \frac{4}{12} = \frac{9}{12}$$

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

4. Maak de sommen. Maak eerst gelijke noemers. Kijk goed naar de stroken.

Nu jij: (meerdere antwoorden mogelijk)

$$\frac{1}{2} + \frac{6}{16} = \frac{8}{16} + \frac{6}{16} = \frac{14}{16}$$

$$\frac{1}{2} - \frac{3}{16} = \frac{8}{16} - \frac{3}{16} = \frac{5}{16}$$

$$\frac{3}{4} + \frac{1}{8} = \frac{6}{8} + \frac{1}{8} = \frac{7}{8}$$

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

$$\frac{5}{8} + \frac{3}{16} = \frac{10}{16} + \frac{3}{16} = \frac{13}{16}$$

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

$$\frac{7}{16} + \frac{1}{2} = \frac{7}{16} + \frac{8}{16} = \frac{15}{16}$$

$$\frac{8}{16} - \frac{1}{4} = \frac{8}{16} - \frac{4}{16} = \frac{4}{16}$$

$$\frac{6}{8} + \frac{2}{16} = \frac{6}{8} + \frac{1}{8} = \frac{7}{8}$$

$$\frac{8}{8} - \frac{12}{16} = \frac{8}{8} - \frac{6}{8} = \frac{2}{8}$$

$$\frac{2}{4} + \frac{3}{16} = \frac{8}{16} + \frac{3}{16} = \frac{11}{16}$$

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

$$\frac{8}{8} + \frac{1}{2} = \frac{8}{8} + \frac{4}{8} = \frac{12}{8}$$

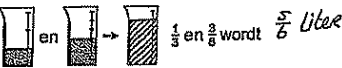
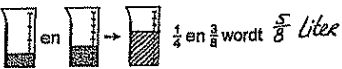
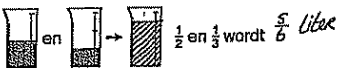
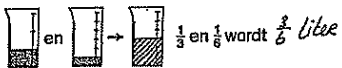
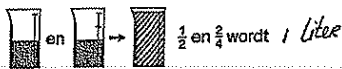
$$\frac{11}{16} - \frac{5}{8} = \frac{11}{16} - \frac{10}{16} = \frac{1}{16}$$

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

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

1. Giet de maatbekers bij elkaar. Maak de som.

Nu jij:



2. Zoek de breuk met dezelfde waarde.

Nu jij: (meerdere antwoorden mogelijk)

$\frac{1}{2}$	$\frac{2}{4}$	$\frac{3}{6}$	$\frac{4}{8}$	$\frac{5}{10}$	$\frac{6}{12}$	$\frac{7}{14}$	$\frac{8}{16}$	$\frac{9}{18}$	$\frac{10}{20}$
---------------	---------------	---------------	---------------	----------------	----------------	----------------	----------------	----------------	-----------------

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

$$\frac{3}{6} = \frac{4}{8}$$

$$\frac{5}{10} = \frac{6}{12}$$

$$\frac{4}{8} = \frac{5}{10}$$

$$\frac{6}{12} = \frac{7}{14}$$

$$\frac{8}{16} = \frac{9}{18}$$

$$\frac{9}{18} = \frac{10}{20}$$

$$\frac{7}{14} = \frac{8}{16}$$

$$\frac{10}{20} = \frac{11}{22}$$

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

$$\frac{4}{20} = \frac{1}{5}$$

$$\frac{6}{30} = \frac{1}{5}$$

$$\frac{8}{40} = \frac{1}{5}$$

$$\frac{10}{50} = \frac{1}{5}$$

$$\frac{12}{60} = \frac{1}{5}$$

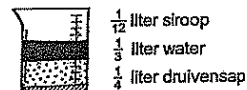
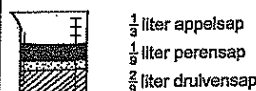
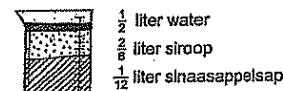
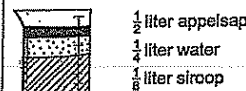
$$\frac{14}{70} = \frac{2}{5}$$

$$\frac{16}{80} = \frac{2}{5}$$

$$\frac{18}{90} = \frac{2}{5}$$

5. Vul de maatbeker met 3 verschillende kleuren.

Nu jij:



6. Maak breuken met gelijke noemers. Je mag de breukenstroken gebruiken.

Nu jij: (meerdere antwoorden mogelijk)

$$\frac{3}{6} \quad \frac{1}{2} \quad \frac{4}{10} \text{ wordt } \frac{6}{10} \quad \frac{5}{10} \quad \frac{4}{10}$$

$$\frac{1}{2} \quad \frac{3}{4} \quad \frac{3}{8} \text{ wordt } \frac{4}{8} \quad \frac{6}{8} \quad \frac{3}{8}$$

$$\frac{1}{2} \quad \frac{3}{4} \quad \frac{2}{8} \text{ wordt } \frac{4}{8} \quad \frac{3}{8} \quad \frac{1}{8}$$

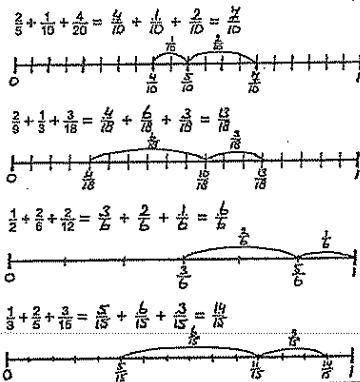
$$\frac{2}{4} \quad \frac{4}{12} \quad \frac{1}{2} \text{ wordt } \frac{6}{12} \quad \frac{4}{12} \quad \frac{6}{12}$$

$$\frac{1}{3} \quad \frac{3}{9} \quad \frac{4}{6} \text{ wordt } \frac{1}{3} \quad \frac{1}{3} \quad \frac{2}{3}$$

$$\frac{1}{3} \quad \frac{7}{9} \quad \frac{4}{18} \text{ wordt } \frac{6}{9} \quad \frac{8}{9} \quad \frac{2}{9}$$

7. Maak de breuken gelijknamig en maak de sprongen op de getallenlijn.

Nu jij: (meerdere antwoorden mogelijk)



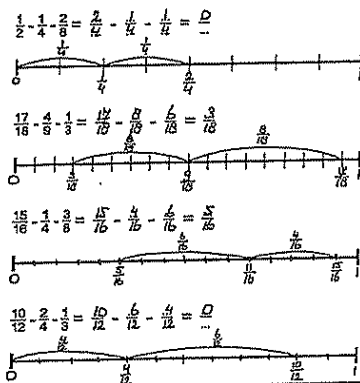
11. Maak breuken met gelijke noemers en tel op. Je mag een getallenlijn tekenen.

Nu jij:

$$\begin{aligned} \frac{1}{3} + \frac{2}{6} + \frac{2}{12} &= \frac{4}{12} + \frac{4}{12} + \frac{2}{12} = \frac{10}{12} \\ \frac{2}{5} + \frac{1}{2} + \frac{1}{10} &= \frac{4}{10} + \frac{5}{10} + \frac{1}{10} = \frac{10}{10} \\ \frac{2}{3} + \frac{1}{4} + \frac{1}{12} &= \frac{8}{12} + \frac{3}{12} + \frac{1}{12} = \frac{12}{12} \\ \frac{2}{15} + \frac{2}{5} + \frac{1}{3} &= \frac{2}{15} + \frac{6}{15} + \frac{5}{15} = \frac{13}{15} \\ \frac{3}{14} + \frac{2}{7} + \frac{1}{2} &= \frac{3}{14} + \frac{4}{14} + \frac{7}{14} = \frac{14}{14} \\ \frac{3}{20} + \frac{2}{5} + \frac{1}{4} &= \frac{3}{20} + \frac{8}{20} + \frac{5}{20} = \frac{16}{20} \\ \frac{2}{10} + \frac{1}{2} + \frac{1}{5} &= \frac{2}{10} + \frac{5}{10} + \frac{2}{10} = \frac{9}{10} \\ \frac{4}{30} + \frac{1}{3} + \frac{3}{10} &= \frac{4}{30} + \frac{10}{30} + \frac{9}{30} = \frac{23}{30} \end{aligned}$$

8. Maak de breuken gelijknamig en maak de sprongen op de getallenlijn.

Nu jij: (meerdere antwoorden mogelijk)



12. Maak breuken met gelijke noemers en maak de aftreksom. Je mag een getallenlijn tekenen.

Nu jij: (meerdere antwoorden mogelijk)

$$\begin{aligned} \frac{2}{3} - \frac{2}{6} - \frac{1}{12} &= \frac{8}{12} - \frac{4}{12} - \frac{1}{12} = \frac{3}{12} \\ \frac{1}{2} - \frac{1}{5} - \frac{1}{10} &= \frac{5}{10} - \frac{2}{10} - \frac{1}{10} = \frac{2}{10} \\ \frac{19}{20} - \frac{1}{4} - \frac{1}{2} &= \frac{19}{20} - \frac{5}{20} - \frac{10}{20} = \frac{4}{20} \\ \frac{5}{6} - \frac{5}{24} - \frac{3}{8} &= \frac{10}{24} - \frac{5}{24} - \frac{9}{24} = \frac{6}{24} \\ \frac{1}{2} - \frac{2}{7} - \frac{3}{14} &= \frac{7}{14} - \frac{4}{14} - \frac{3}{14} = 0 \\ \frac{1}{2} - \frac{2}{5} - \frac{1}{10} &= \frac{5}{10} - \frac{4}{10} - \frac{1}{10} = 0 \\ \frac{8}{9} - \frac{3}{27} - \frac{2}{3} &= \frac{8}{9} - \frac{1}{9} - \frac{6}{9} = \frac{1}{9} \\ \frac{47}{50} - \frac{3}{5} - \frac{7}{25} &= \frac{47}{50} - \frac{20}{50} - \frac{14}{50} = \frac{13}{50} \end{aligned}$$

9. Maak twee breuken met gelijke noemers. Je mag de breukenstroken gebruiken.

Nu jij:

$$\begin{aligned} \frac{1}{3} \quad \frac{5}{6} &\rightarrow \frac{2}{6} \text{ en } \frac{5}{6} \\ \frac{1}{4} \quad \frac{3}{12} &\rightarrow \frac{1}{4} \text{ en } \frac{1}{4} \text{ of } \frac{3}{12} \text{ en } \frac{3}{12} \\ \frac{2}{5} \quad \frac{7}{10} &\rightarrow \frac{4}{10} \text{ en } \frac{4}{10} \\ \frac{2}{3} \quad \frac{7}{15} &\rightarrow \frac{10}{15} \text{ en } \frac{4}{15} \\ \frac{3}{4} \quad \frac{3}{8} &\rightarrow \frac{6}{8} \text{ en } \frac{3}{8} \\ \frac{1}{5} \quad \frac{5}{9} &\rightarrow \frac{3}{9} \text{ en } \frac{5}{9} \end{aligned}$$

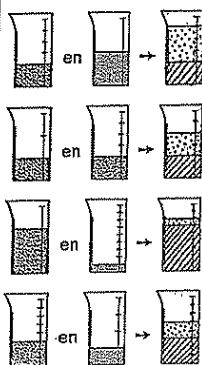
13. Maak gelijke noemers en tel bij elkaar op. Je mag een getallenlijn tekenen.

Nu jij: (meerdere antwoorden mogelijk)

$$\begin{aligned} \frac{2}{3} + \frac{1}{4} &= \frac{8}{12} + \frac{3}{12} = \frac{11}{12} \\ \frac{2}{8} + \frac{3}{4} &= \frac{1}{4} + \frac{3}{4} = 1 \\ \frac{1}{6} + \frac{2}{3} &= \frac{1}{6} + \frac{4}{6} = \frac{5}{6} \\ \frac{1}{2} + \frac{1}{4} + \frac{1}{8} &= \frac{4}{8} + \frac{2}{8} + \frac{1}{8} = \frac{7}{8} \\ \frac{1}{4} + \frac{1}{2} + \frac{2}{8} &= \frac{1}{4} + \frac{2}{4} + \frac{1}{4} = 1 \\ \frac{1}{5} + \frac{2}{6} + \frac{3}{10} &= \frac{2}{10} + \frac{4}{10} + \frac{3}{10} = \frac{9}{10} \\ \frac{1}{3} + \frac{3}{12} + \frac{1}{12} &= \frac{4}{12} + \frac{3}{12} + \frac{1}{12} = \frac{8}{12} \end{aligned}$$

10. Maak de maatstrepen op de kan en reken de som uit.

Nu jij:



14. Kleur de sommen met de goede uitkomst.

Nu jij:

$\frac{4}{8} + \frac{5}{16} = \frac{6}{8}$	$\frac{9}{12} - \frac{1}{4} = \frac{7}{12}$
$\frac{2}{5} + \frac{1}{3} = \frac{2}{3}$	$\frac{13}{16} - \frac{3}{4} = \frac{1}{4}$
$\frac{2}{20} + \frac{4}{10} = \frac{1}{2}$	$\frac{1}{2} - \frac{3}{24} = \frac{2}{3}$
$\frac{4}{10} - \frac{1}{20} = \frac{4}{5}$	

15. Kleur de twee breuken die samen 1 zijn.

Nu jij: (meerdere antwoorden mogelijk)

16. Van alles en nog wat. (Voor de echte doorbijter.)

Nu jij:

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

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

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

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

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

$$\frac{2}{6} + \frac{2}{10} + \frac{2}{15} = 1$$

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

$$1 = \frac{1}{3} + \frac{1}{4} + \frac{1}{12}$$

$$\frac{7}{9} - \frac{2}{9} = \frac{5}{9}$$

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

$$\frac{4}{10} - \frac{1}{10} = \frac{3}{10}$$

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

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

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

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

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

17. Maak de maatstrepen op de kan en teken de som.

Nu jij:

19. Maak de plussommen. Geef de breuken eerst dezelfde noemer.

Nu jij: (meerdere antwoorden mogelijk)

$$\frac{2}{3} + \frac{1}{4} \text{ wordt } \frac{8}{12} + \frac{3}{12} = \frac{11}{12}$$

$$\frac{2}{7} + \frac{1}{2} \text{ wordt } \frac{4}{14} + \frac{7}{14} = \frac{11}{14}$$

$$\frac{1}{6} + \frac{2}{4} \text{ wordt } \frac{2}{12} + \frac{6}{12} = \frac{8}{12}$$

$$\frac{2}{4} + \frac{1}{3} \text{ wordt } \frac{6}{12} + \frac{4}{12} = \frac{10}{12}$$

$$\frac{1}{2} + \frac{2}{5} \text{ wordt } \frac{5}{10} + \frac{4}{10} = \frac{9}{10}$$

$$\frac{1}{6} + \frac{5}{9} \text{ wordt } \frac{3}{18} + \frac{10}{18} = \frac{13}{18}$$

$$\frac{4}{10} + \frac{6}{15} \text{ wordt } \frac{8}{20} + \frac{8}{20} = \frac{16}{20}$$

$$\frac{11}{20} + \frac{3}{5} \text{ wordt } \frac{11}{20} + \frac{12}{20} = \frac{23}{20}$$

20. Maak de minssommen. Geef de breuken eerst dezelfde noemer.

Nu jij: (meerdere antwoorden mogelijk)

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

$$\frac{4}{5} - \frac{1}{3} \text{ wordt } \frac{12}{15} - \frac{5}{15} = \frac{7}{15}$$

$$\frac{5}{6} - \frac{1}{4} \text{ wordt } \frac{10}{12} - \frac{3}{12} = \frac{7}{12}$$

$$\frac{5}{7} - \frac{1}{2} \text{ wordt } \frac{10}{14} - \frac{7}{14} = \frac{3}{14}$$

$$\frac{6}{10} - \frac{4}{5} \text{ wordt } \frac{6}{10} - \frac{8}{10} = -\frac{2}{10}$$

$$\frac{3}{4} - \frac{1}{6} \text{ wordt } \frac{9}{12} - \frac{2}{12} = \frac{7}{12}$$

$$\frac{13}{15} - \frac{3}{5} \text{ wordt } \frac{13}{15} - \frac{9}{15} = \frac{4}{15}$$

$$\frac{4}{6} - \frac{1}{3} \text{ wordt } \frac{4}{6} - \frac{2}{6} = \frac{2}{6}$$

21. Vul in. (Voor de echte doorbijter.)

Nu jij: (meerdere antwoorden mogelijk)

18. Maak twee breuken met dezelfde noemer.

Nu jij: (meerdere antwoorden mogelijk)

$$\frac{1}{4} \text{ en } \frac{1}{2} \rightarrow \frac{2}{4} \text{ en } \frac{3}{4}$$

$$\frac{1}{5} \text{ en } \frac{1}{4} \rightarrow \frac{4}{20} \text{ en } \frac{5}{20}$$

$$\frac{1}{3} \text{ en } \frac{2}{4} \rightarrow \frac{2}{6} \text{ en } \frac{3}{6}$$

$$\frac{2}{5} \text{ en } \frac{1}{2} \rightarrow \frac{4}{10} \text{ en } \frac{5}{10}$$

$$\frac{3}{6} \text{ en } \frac{2}{3} \rightarrow \frac{4}{6} \text{ en } \frac{5}{6}$$

$$\frac{3}{5} \text{ en } \frac{1}{3} \rightarrow \frac{6}{15} \text{ en } \frac{5}{15}$$

$$\frac{2}{5} \text{ en } \frac{1}{4} \rightarrow \frac{8}{20} \text{ en } \frac{5}{20}$$

$$\frac{3}{4} \text{ en } \frac{1}{5} \rightarrow \frac{6}{20} \text{ en } \frac{4}{20}$$

$$\frac{1}{2} \text{ en } \frac{1}{5} \rightarrow \frac{5}{10} \text{ en } \frac{2}{10}$$

22. Samen 1. Vul het laatste vakje in.

Nu jij: (meerdere antwoorden mogelijk)

$$\frac{6}{8} + \frac{1}{4} + \frac{1}{8} = 1$$

$$\frac{2}{3} + \frac{1}{4} + \frac{1}{12} = 1$$

$$\frac{2}{4} + \frac{3}{12} + \frac{1}{4} = 1$$

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

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

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

$$\frac{4}{9} + \frac{2}{12} + \frac{1}{6} = 1$$

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

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

$$\frac{3}{8} + \frac{2}{12} + \frac{13}{24} = 1$$

$$\frac{2}{6} + \frac{3}{12} + \frac{5}{12} = 1$$

$$\frac{2}{9} + \frac{1}{2} + \frac{5}{18} = 1$$