

Zelfstandig werken

Rekenen

Groep 7

Antwoorden

Breuken

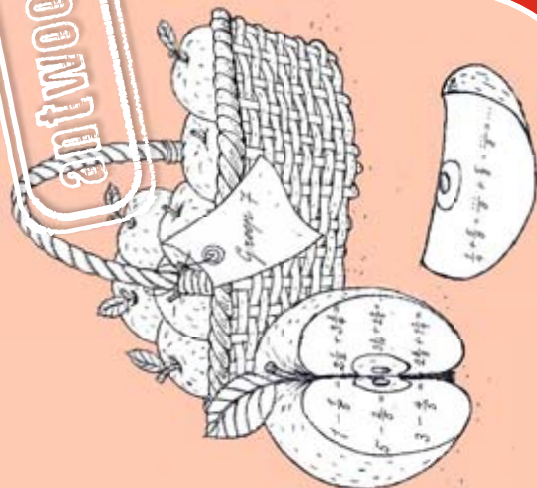
Ajodakt

ajodakt

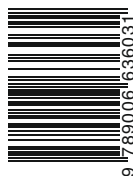
Dit antwoordboekje hoort bij het gelijknamige werkboek van de serie Breuken van de Primair Onderwijs Rekenen. Het bestaat uit een groot assortiment leerdoelen, oefeningen, opdrachten, spelletjes, en andere activiteiten die de leerling zelf kan uitvoeren. Het is een handzaam en efficiënt middel om de leerling zelf zijn antwoorden in het werkboek te bekijken.

Ajodakt maakt deel uit van ThiemeMeulenhoff Zelfstandig werken (Z). Dit bestaat uit een groot assortiment leermiddelen voor alle leerjaren. Op onze Z-site vindt u al onze uitgaven: www.zelfstandig-werken.nl

antwoorden



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ajodakt

Rekenen
Breuken groep 7

ThiemeMeulenhoff ontwikkelt leermiddelen voor Primair Onderwijs, Voortgezet Onderwijs, Beroepsonderwijs en Volwasseneneducatie en Hoger Onderwijs

Meer informatie over ThiemeMeulenhoff en een overzicht van onze leermiddelen: www.thiememeulenhoff.nl of via onze klantenservice (088) 800 20 17

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Voor zover het maken van kopieën uit deze uitgave is toegestaan op grond van artikel 16 Auteurswet j° het Besluit van 23 augustus 1985, Stbl., dient men de daarvoor wettelijk verschuldigde vergoedingen te voldoen aan Stichting Publicatie- en Reproductierechten Organisatie (PRO), Postbus 3060, 2130 KB Hoofddorp (www.stichting-pro.nl). Voor het overnemen van gedeelte(n) uit deze uitgave in bloemlezingen, readers en andere compilatiewerken (artikel 16 Auteurswet) dient men zich tot de uitgever te wenden. Voor meer informatie over het gebruik van muziek, film en het maken van kopieën in het onderwijs zie www.auteursrechtenonderwijs.nl.

De uitgever heeft ernaar gestreefd de auteursrechten te regelen volgens de wettelijke bepalingen. Degenen die desondanks menen zekere rechten te kunnen doen gelden, kunnen zich alsnog tot de uitgever wenden.

ThiemeMeulenhoff

Taak 1 Gelijkwaardige breuken

1

a

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

b

$$\begin{aligned} \frac{1}{2} &= \frac{2}{4} = \frac{4}{8} = \frac{8}{16} & \frac{2}{4} &= \frac{4}{8} = \frac{8}{16} \\ \frac{1}{4} &= \frac{2}{8} = \frac{4}{16} & \frac{3}{4} &= \frac{6}{8} = \frac{12}{16} \\ \frac{1}{8} &= \frac{2}{16} & \frac{3}{8} &= \frac{6}{16} \\ \frac{2}{4} &= \frac{1}{2} = \frac{4}{8} & \frac{8}{8} &= \frac{4}{4} \\ \frac{4}{8} &= \frac{1}{2} = \frac{8}{16} & \frac{10}{8} &= \frac{5}{4} \\ \frac{8}{16} &= \frac{1}{2} & \frac{14}{16} &= \frac{7}{8} \end{aligned}$$

2

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

3

$$\begin{aligned} \frac{3}{6} & \quad \frac{4}{6} & \quad \frac{4}{12} & \quad \frac{3}{12} \\ \frac{3}{6} \text{ en } \frac{2}{6} & & & \quad \frac{16}{24} \text{ en } \frac{3}{24} \\ \frac{5}{10} \text{ en } \frac{2}{10} & & & \quad \frac{7}{21} \text{ en } \frac{9}{21} \\ \frac{4}{6} \text{ en } \frac{3}{6} & & & \quad \frac{8}{12} \text{ en } \frac{6}{12} \\ \frac{6}{10} \text{ en } \frac{5}{10} & & & \quad \frac{3}{15} \text{ en } \frac{5}{15} \end{aligned}$$

4

$$\begin{aligned} \frac{3}{18} \text{ en } \frac{2}{18} & \quad \frac{3}{30} \text{ en } \frac{2}{30} \\ \frac{4}{24} \text{ en } \frac{3}{24} & \quad \frac{2}{24} \text{ en } \frac{1}{24} \\ \frac{3}{12} \text{ en } \frac{2}{12} & \quad \frac{5}{30} \text{ en } \frac{3}{30} \\ \frac{2}{12} \text{ en } \frac{3}{12} & \quad \frac{3}{24} \text{ en } \frac{2}{24} \end{aligned}$$

5

$$\begin{aligned} \frac{6}{9} &= \frac{2}{3} & \frac{9}{12} &= \frac{3}{4} \\ \frac{1}{3} & \quad \frac{1}{2} & \quad \frac{1}{4} \\ \frac{1}{2} & \quad \frac{1}{6} & \quad \frac{1}{9} \\ \frac{1}{3} & \quad \frac{1}{4} & \quad \frac{1}{3} \\ \frac{2}{3} & \quad \frac{1}{3} & \quad \frac{1}{4} \end{aligned}$$

6

$$\begin{aligned} \frac{2}{6} & \quad \frac{4}{10} & \quad \frac{1}{3} & \quad \frac{1}{2} \\ \frac{3}{9} & \quad \frac{8}{12} & \quad \frac{1}{3} & \quad \frac{1}{3} \\ \frac{4}{8} & \quad \frac{9}{12} & \quad \frac{1}{5} & \quad \frac{1}{3} \\ \frac{2}{8} & \quad \frac{9}{15} & \quad \frac{1}{5} & \quad \frac{2}{5} \\ \frac{2}{3} \text{ en } \frac{2}{3} & \quad \frac{3}{15} \text{ en } \frac{5}{15} & \quad \frac{2}{10} \text{ en } \frac{3}{10} \\ \frac{3}{12} \text{ en } \frac{2}{12} & \quad \frac{3}{7} \text{ en } \frac{1}{7} & \quad \frac{25}{30} \text{ en } \frac{18}{30} \\ \frac{1}{3} \text{ en } \frac{2}{3} & \quad \frac{3}{12} \text{ en } \frac{1}{12} & \end{aligned}$$

Taak 2 Breuken vergelijken

1

a

$$\begin{aligned} \frac{2}{4} & \quad \frac{6}{10} \\ \frac{3}{9} & \quad \frac{6}{9} \\ \frac{2}{8} & \quad \frac{9}{12} \end{aligned}$$

b

$$\begin{aligned} \text{minder dan } \frac{1}{2} & \quad \text{meer dan } \frac{1}{2} \\ \frac{2}{6} & \quad \frac{3}{5} \\ \frac{4}{10} & \quad \frac{2}{3} \\ \frac{2}{5} & \end{aligned}$$

2

a

$$\begin{aligned} \frac{4}{6} & \quad \frac{2}{6} \\ \frac{1}{3} &= \frac{2}{6} & \frac{1}{4} &= \frac{2}{8} & \frac{1}{3} &< \frac{5}{6} & \frac{2}{4} &< \frac{5}{8} \\ \frac{1}{4} &< \frac{3}{8} & \frac{1}{5} &< \frac{3}{10} & \frac{2}{9} &< \frac{1}{3} & \frac{4}{8} &< \frac{3}{4} \\ & & \frac{2}{3} &> \frac{5}{9} & \frac{3}{6} &= \frac{1}{2} & \frac{7}{9} &> \frac{2}{3} \end{aligned}$$

b

$$\begin{aligned} \frac{4}{12} &< \frac{3}{12} \\ \frac{2}{5} &> \frac{1}{3} & \frac{3}{8} &> \frac{1}{3} \\ \frac{1}{2} &> \frac{3}{5} & \frac{1}{3} &< \frac{3}{7} \\ \frac{2}{3} &> \frac{1}{2} & \frac{2}{3} &> \frac{2}{4} & \frac{3}{5} &< \frac{5}{6} \end{aligned}$$

3

a

$$\begin{aligned} \frac{2}{4} - \frac{3}{4} - 1\frac{1}{4} - 1\frac{3}{4} - 2\frac{1}{4} - 2\frac{3}{4} \\ \frac{5}{4} \quad \frac{11}{4} \quad \frac{13}{4} \quad \frac{10}{4} \end{aligned}$$

b

$$\begin{aligned} \frac{4}{8} - \frac{6}{8} - 1\frac{1}{2} - 2\frac{1}{4} - 2\frac{7}{8} - 3\frac{3}{8} \\ \frac{12}{8} \quad \frac{10}{8} \quad \frac{27}{8} \quad \frac{14}{8} \quad \frac{23}{8} \end{aligned}$$

4

$$\begin{aligned} 1\frac{3}{4} & \quad 1\frac{1}{6} & \quad 1\frac{6}{10} = 1\frac{3}{5} \\ 1\frac{2}{5} & \quad 1\frac{2}{9} & \quad 2\frac{2}{4} = 2\frac{1}{2} \\ 1\frac{1}{3} & \quad 2 & \quad 1\frac{2}{6} = 1\frac{1}{3} \end{aligned}$$

5

$$\begin{aligned} \frac{7}{5} & \quad \frac{12}{8} \\ \frac{9}{4} & \quad \frac{15}{4} \\ \frac{6}{5} & \quad \frac{14}{12} \\ \frac{5}{5} & \quad \frac{11}{5} \\ \frac{7}{2} & \quad \frac{14}{6} \\ & \quad \frac{17}{5} \\ & \quad \frac{14}{4} \end{aligned}$$

6

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

Taak 3 Breuken optellen en aftrekken

1

$$\frac{4}{9} \text{ grijs} + \frac{2}{9} \text{ grijs} = \text{totaal } \frac{6}{9} = \frac{2}{3} \text{ grijs}$$

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

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

$$\frac{5}{5} = 1 \quad \frac{4}{6} = \frac{2}{3} \quad \frac{10}{12} = \frac{5}{6}$$

$$\frac{6}{8} = \frac{3}{4} \quad \frac{4}{8} = \frac{1}{2} \quad \frac{10}{10} = 1$$

2

$$2\frac{4}{5} \quad 1 \quad 2 \quad 3$$

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

$$5 \quad 1\frac{2}{5} \quad 2\frac{1}{5} \quad 5\frac{4}{5}$$

$$2\frac{1}{5} \quad 1\frac{3}{5} \quad 2\frac{4}{5} \quad 5\frac{2}{5}$$

3

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

$$3\frac{5}{4} = 4\frac{1}{4} \quad 8\frac{1}{4} \quad 4\frac{1}{7}$$

$$3\frac{6}{5} = 4\frac{1}{5} \quad 6\frac{1}{3} \quad 3\frac{1}{9}$$

$$4\frac{4}{3} = 5\frac{1}{3} \quad 6 \quad 5\frac{1}{8}$$

4

$$\frac{8}{9} - \frac{2}{9} = \frac{6}{9}$$

$$\frac{4}{9} \quad 1\frac{1}{9} \quad 1\frac{4}{9}$$

$$\frac{1}{9} \quad 3\frac{2}{9} \quad 2$$

$$\frac{1}{5} \quad 1\frac{2}{10} = 1\frac{1}{5} \quad 2\frac{2}{4} = 2\frac{1}{2}$$

$$\frac{6}{12} = \frac{1}{2} \quad 4\frac{2}{8} = 4\frac{1}{4} \quad 3\frac{3}{6} = 3\frac{1}{2}$$

5

$$\frac{4}{8} = \frac{1}{2} \quad \frac{7}{8} \quad 2\frac{6}{8} = 2\frac{3}{4}$$

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

6

$$\frac{4}{5} \quad \frac{4}{5} \quad 2\frac{1}{5} \quad 1\frac{1}{5}$$

$$1\frac{3}{5} \quad \frac{2}{5} \quad 2 \quad 1$$

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

$$2\frac{1}{5} \quad \frac{1}{5} \quad \frac{4}{5} \quad \frac{4}{5}$$

Taak 4 Oefenen

1

a

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

b

$$\frac{2}{6} = \frac{4}{12} \quad \frac{1}{3} = \frac{4}{12}$$

$$\frac{4}{6} = \frac{8}{12} \quad \frac{2}{3} = \frac{8}{12}$$

$$\frac{6}{6} = \frac{12}{12} \quad 1$$

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

2

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

$$\frac{2}{10} \text{ en } \frac{3}{10} \quad \frac{5}{20} \text{ en } \frac{4}{20}$$

$$\frac{4}{6} \text{ en } \frac{4}{6} \quad \frac{4}{12} \text{ en } \frac{3}{12}$$

$$\frac{9}{15} \text{ en } \frac{1}{15} \quad \frac{6}{15} \text{ en } \frac{10}{15}$$

3

a

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

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

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

b

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

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

$$3 \quad 5\frac{2}{3} \quad 1\frac{1}{6}$$

c

$$\frac{3}{2} \quad \frac{11}{5} \quad \frac{11}{2}$$

$$\frac{7}{3} \quad \frac{18}{7} \quad \frac{11}{3}$$

$$\frac{11}{3} \quad \frac{25}{8} \quad \frac{7}{4}$$

4

a

minder dan $\frac{1}{2}$	precies $\frac{1}{2}$	meer dan $\frac{1}{2}$
$\frac{4}{10}$	$\frac{4}{8}$	$\frac{4}{6}$
$\frac{3}{8}$	$\frac{9}{18}$	$\frac{5}{8}$
	$\frac{7}{14}$	$\frac{3}{4}$
		$\frac{8}{9}$

b

$$\frac{1}{3} - \frac{6}{9} - \frac{8}{9} - 1\frac{1}{9} - 1\frac{3}{9} - 1\frac{2}{3} - 2\frac{1}{3} - 2\frac{2}{3}$$

5

$$\frac{1}{2} > \frac{1}{4} \quad \frac{3}{4} > \frac{5}{8} \quad \frac{5}{6} > \frac{1}{3}$$

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

$$\frac{1}{4} < \frac{3}{8} \quad \frac{1}{3} > \frac{1}{9} \quad \frac{3}{6} = \frac{1}{2}$$

6

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

$$\frac{9}{8} = 1\frac{1}{8} \quad 2\frac{3}{3} = 3 \quad 2\frac{4}{3} = 3\frac{1}{3} \quad 4\frac{11}{7} = 5\frac{4}{7}$$

$$\frac{10}{9} = 1\frac{1}{9} \quad 3\frac{5}{5} = 4 \quad 1\frac{10}{6} = 2\frac{2}{3} \quad 4\frac{4}{3} = 5\frac{1}{3}$$

$$\frac{3}{4} \quad 3\frac{1}{4} \quad \frac{5}{6} \quad \frac{1}{6}$$

$$\frac{1}{3} \quad 4\frac{1}{6} \quad 1\frac{3}{4} \quad 1$$

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

Taak 5 Ongelijknamige breuken optellen

1

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

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

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

$$\frac{6}{10} + \frac{1}{10} = \frac{7}{10}$$

$$\frac{4}{14} + \frac{1}{14} = \frac{5}{14}$$

$$\frac{6}{16} + \frac{3}{16} = \frac{9}{16}$$

2

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

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

$$\frac{5}{6} + \frac{3}{6} = \frac{8}{6} = 1\frac{2}{6} = 1\frac{1}{3}$$

$$\frac{4}{6} + \frac{5}{6} = \frac{9}{6} = 1\frac{3}{6} = 1\frac{1}{2}$$

$$\frac{7}{9} + \frac{3}{9} = \frac{10}{9} = 1\frac{1}{9}$$

$$\frac{7}{8} + \frac{4}{8} = \frac{11}{8} = 1\frac{3}{8}$$

3

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

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

$$\frac{4}{12} + \frac{3}{12} = \frac{7}{12}$$

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

$$\frac{10}{15} + \frac{6}{15} = \frac{16}{15} = 1\frac{1}{15}$$

$$\frac{9}{12} + \frac{4}{12} = \frac{13}{12} = 1\frac{1}{12}$$

4

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

$$\frac{10}{15} + \frac{12}{15} = \frac{22}{15} = 1\frac{7}{15}$$

$$\frac{18}{30} + \frac{25}{30} = \frac{43}{30} = 1\frac{13}{30}$$

$$\frac{14}{21} + \frac{12}{21} = \frac{26}{21} = 1\frac{5}{21}$$

$$\frac{15}{20} + \frac{12}{20} = \frac{27}{20} = 1\frac{7}{20}$$

$$\frac{21}{24} + \frac{16}{24} = \frac{37}{24} = 1\frac{17}{24}$$

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

$$4\frac{8}{10} + \frac{5}{10} = 4\frac{13}{10} = 5\frac{3}{10}$$

$$4\frac{8}{12} + 2\frac{9}{12} = 6\frac{17}{12} = 7\frac{5}{12}$$

$$2\frac{10}{12} + 3\frac{3}{12} = 5\frac{13}{12} = 6\frac{1}{12}$$

5

50 c	20 c	40 c	80 c	50 c + 80 c = 130 c	140 c + 50 c = 190 c
80 c	30 c	60 c	80 c	40 c + 40 c = 80 c	110 c + 40 c = 150 c
				40 c + 30 c = 70 c	250 c + 20 c = 270 c

6

$1\frac{1}{2}$ euro = € 1,50	$3 \times \frac{1}{5} = \frac{3}{5}$
$2\frac{1}{4}$ euro = € 2,25	$3 \times \frac{2}{7} = \frac{6}{7}$
$1\frac{3}{5}$ euro = € 1,60	$3 \times \frac{2}{3} = 2$

Taak 6 Ongelijknamige breuken aftrekken

1

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

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

$$\frac{5}{10} - \frac{4}{10} = \frac{1}{10}$$

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

$$\frac{6}{9} - \frac{2}{9} = \frac{4}{9}$$

$$\frac{8}{10} - \frac{3}{10} = \frac{5}{10} = \frac{1}{2}$$

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

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

$$5\frac{8}{10} - \frac{1}{10} = 5\frac{7}{10}$$

$$6\frac{6}{9} - \frac{2}{9} = 6\frac{4}{9}$$

2

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

$$\frac{5}{12} - \frac{4}{12} = \frac{1}{12}$$

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

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

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

$$\frac{6}{10} - \frac{5}{10} = \frac{1}{10}$$

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

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

$$2\frac{5}{20} - \frac{4}{20} = 2\frac{1}{20}$$

$$4\frac{9}{15} - \frac{5}{15} = 4\frac{4}{15}$$

3

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

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

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

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

$$2\frac{3}{10} - \frac{6}{10} = 1\frac{7}{10}$$

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

4

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

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

$$4\frac{2}{6} - \frac{3}{6} = 3\frac{5}{6}$$

$$1\frac{4}{12} - \frac{9}{12} = \frac{7}{12}$$

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

$$2\frac{5}{10} - \frac{8}{10} = 1\frac{7}{10}$$

5

25 c	80 c	5 c	70 c
75 c	60 c	15 c	50 c

50 c - 20 c = 30 c	60 c - 10 c = 50 c
80 c - 50 c = 30 c	50 c - 50 c = 0 c
25 c - 20 c = 5 c	50 c - 40 c = 10 c

6

€ 0,75 - € 0,30 = € 0,45
€ 0,80 - € 0,05 = € 0,75
€ 0,25 - € 0,20 = € 0,05

€ 2,50 - € 0,70 = € 1,80
€ 3,20 - € 0,50 = € 2,70
€ 1,20 - € 0,25 = € 0,95

Taak 7

Gelijknamig maken en vereenvoudigen

1

a

$$\frac{2}{4} = \frac{4}{8} = \frac{8}{16}$$

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

$$\frac{6}{16}$$

$$\frac{14}{16}$$

$$\frac{4}{6} = \frac{6}{9} = \frac{12}{18}$$

$$\frac{15}{18}$$

$$\frac{6}{18} = \frac{2}{6} = \frac{1}{3}$$

$$\frac{2}{3} = \frac{4}{6} = \frac{12}{18}$$

b

$$\frac{3}{18} \text{ en } \frac{2}{18}$$

$$\frac{4}{24} \text{ en } \frac{3}{24}$$

$$\frac{3}{12} \text{ en } \frac{2}{12}$$

$$\frac{7}{28} \text{ en } \frac{2}{28}$$

$$\frac{4}{36} \text{ en } \frac{3}{36}$$

$$\frac{1}{21} \text{ en } \frac{7}{21}$$

2

a

$$\frac{1}{3} \quad \frac{2}{3} \quad \frac{3}{8} \quad \frac{2}{3}$$

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

$$\frac{1}{2} \quad \frac{3}{4} \quad \frac{1}{5} \quad \frac{2}{3}$$

b

$$1\frac{1}{2} \quad 3\frac{1}{2} \quad 3\frac{1}{6} \quad 5\frac{1}{2}$$

$$1\frac{1}{4} \quad 1\frac{3}{5} \quad 4\frac{1}{2} \quad 7\frac{2}{5}$$

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

3

a

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

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

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

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

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

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

b

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

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

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

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

$$\frac{5}{6} - \frac{1}{6} = \frac{4}{6}$$

4

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

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

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

$$\frac{11}{9} = 1\frac{2}{9}$$

$$\frac{11}{6} = 1\frac{5}{6}$$

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

$$\frac{16}{12} = 1\frac{1}{3}$$

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

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

5

a

$$250 \text{ c} \quad 220 \text{ c} \quad 540 \text{ c}$$

$$110 \text{ c} \quad 130 \text{ c} \quad 80 \text{ c}$$

$$360 \text{ c} \quad 250 \text{ c} \quad 160 \text{ c}$$

b

$$5 \text{ euro} = € 5$$

$$4\frac{3}{4} \text{ euro} = € 4,75$$

$$8\frac{1}{10} \text{ euro} = € 8,10$$

c

$$1\frac{1}{5} \text{ euro} = € 1,20$$

$$2\frac{2}{10} \text{ euro} = € 2,20$$

$$3\frac{4}{10} \text{ euro} = € 3,40$$

6

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

$$\frac{1}{4} \quad 1\frac{1}{12} \quad 1\frac{1}{2}$$

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

$$4\frac{2}{3} \quad \frac{7}{18} \quad 3\frac{3}{4}$$

Taak 8

Oefenen

1

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

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

$$\frac{4}{5} - \frac{3}{10} = \frac{5}{10}$$

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

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

$$\frac{4}{5} + \frac{3}{10} = 1\frac{1}{10}$$

$$\frac{4}{5} - \frac{3}{10} = \frac{5}{10}$$

$$\frac{4}{6} - \frac{2}{3} = 0$$

$$\frac{4}{5} + \frac{3}{10} = 1\frac{1}{10}$$

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

2

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

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

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

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

3

a

$$\frac{6}{30}$$

$$\frac{5}{25}$$

$$\frac{2}{10}$$

$$\frac{20}{100}$$

b

$$\frac{12}{40}$$

$$\frac{6}{20}$$

$$\frac{9}{30}$$

$$\frac{30}{100}$$

4

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

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

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

$$\frac{3}{24} + \frac{2}{24} = \frac{5}{24}$$

$$4\frac{3}{12} + \frac{4}{12} = 4\frac{7}{12}$$

$$3\frac{4}{9} + \frac{6}{9} = 4\frac{1}{9}$$

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

$$5\frac{8}{10} + 1\frac{2}{10} = 7$$

5

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

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

$$\frac{5}{6} - \frac{4}{6} = \frac{1}{6}$$

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

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

$$\frac{9}{12} - \frac{8}{12} = \frac{1}{12}$$

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

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

6

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

$$0 \quad \frac{3}{12} = \frac{1}{4}$$

$$\frac{9}{8} = 1\frac{1}{8}$$

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

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

$$3 \times \frac{4}{5} = \frac{12}{5} = 2\frac{2}{5}$$

$$5 \quad \frac{7}{12}$$

$$\frac{5}{6} \quad \frac{1}{12}$$

Taak 9 Breuken delen

1
Ieder krijgt $\frac{1}{4}$ pizza.

$$\frac{1}{8} \quad \frac{1}{8} \quad \frac{1}{6}$$

$$\frac{1}{10} \quad \frac{1}{6} \quad \frac{1}{20}$$

2
 $\frac{2}{3}$ pizza $\rightarrow \frac{6}{9}$ pizza : 3 = $\frac{2}{9}$ pizza's

Ieder krijgt $\frac{2}{9} = \frac{1}{3}$ pizza.

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

$$\frac{2}{9} \quad \frac{3}{12} = \frac{1}{4} \quad \frac{3}{16}$$

3
Ieder krijgt $\frac{1}{2}$ pizza.
 $1\frac{1}{2}$ pizza $\rightarrow \frac{3}{2}$ pizza : 3 = $\frac{1}{2}$ pizza

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

$$\frac{3}{8} \quad \frac{1}{3} \quad \frac{1}{2}$$

4
2 glazen 8 glazen 4 glazen
3 glazen 5 glazen 10
4 glazen 20

5
16 glazen 8 glazen
4 glazen
10 glazen
20 glazen 10 glazen
3 glazen
10 glazen

Taak 10 Breuken vermenigvuldigen

1

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

$$\frac{5}{10} = \frac{1}{2} \quad \frac{2}{3} \quad \frac{3}{6} = \frac{1}{2}$$

$$\frac{2}{2} = 1 \quad \frac{5}{6} \quad \frac{5}{5} = 1$$

2
Dat zijn $2\frac{2}{3}$ pizza's.

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

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

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

3
De helft van de reep is 4 blokjes.

$$\frac{1}{2} \times 8 \text{ blokjes} =$$

$$8 \text{ blokjes} : 2 = 4 \text{ blokjes}$$

$$\frac{1}{3} \times 8 \text{ blokjes is } 2 \text{ hele blokjes}$$

$$\text{en } \frac{2}{3} \text{ blokje.}$$

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

$$8 : 4 = 2 \quad 3 \quad 7 : 2 = \frac{7}{2} = 3\frac{1}{2}$$

$$8 : 8 = 1 \quad 2 \quad 9 : 4 = \frac{9}{4} = 2\frac{1}{4}$$

4

$$€ 2,50 \quad € 5 \quad 250$$

$$2\frac{1}{2} \quad 5 \quad 325$$

$$7\frac{1}{2} \quad 15 \quad 375$$

5

$$\frac{1}{2} \text{ keer } \frac{1}{3} = \frac{1}{6}$$

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

$$\frac{1}{4} \quad \frac{1}{8} \quad \frac{1}{8}$$

$$\frac{1}{4} \quad \frac{1}{8} \quad \frac{1}{8}$$

$$\frac{1}{4} \quad \frac{1}{8} \quad \frac{1}{8}$$

6

Zin: De helft van $\frac{1}{4}$ Som: $\frac{1}{2} \times \frac{1}{4}$

Zin: Een kwart van $\frac{1}{3}$ Som: $\frac{1}{4} \times \frac{1}{3}$

Zin: Een derde deel van $\frac{1}{3}$ Som: $\frac{1}{3} \times \frac{1}{3}$

Zin: De helft van $\frac{1}{3}$ Som: $\frac{1}{2} \times \frac{1}{3}$

Taak 11 Welke manier kies je?

1

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

2

$$\begin{array}{ccc} 8 & 5 & 10 \\ 8 & 5 & 10 \\ 8 & 5 & 10 \\ 8 & 5 & 10 \end{array}$$

3

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

$$\frac{1}{2} \text{ deel van } \frac{3}{4} = \frac{3}{8}$$

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

Bijvoorbeeld:

$$\frac{6}{8} : 2 = \frac{3}{8} \quad \frac{1}{3} : 3 = \frac{1}{9} \quad \frac{1}{2} : 4 = \frac{1}{8} \quad \frac{2}{3} : 2 = \frac{1}{3}$$

4

$$\begin{array}{ccc} 16 & \frac{1}{4} \times 10 = 2\frac{1}{2} \\ \frac{1}{4} \times 8 = 2 & \frac{1}{10} \times 100 = 10 \\ \frac{1}{5} \times 10 = 2 & \frac{1}{5} \times 25 = 5 \end{array}$$

5

a

$$\begin{array}{ccc} \frac{1}{2} \times \frac{1}{4} = \frac{1}{8} & \frac{1}{8} \times \frac{1}{5} = \frac{1}{40} \\ \frac{1}{2} \times \frac{1}{3} = \frac{1}{6} & \frac{1}{8} \times \frac{1}{4} = \frac{1}{32} \\ \frac{1}{3} \times \frac{1}{3} = \frac{1}{9} & \frac{1}{10} \times \frac{1}{10} = \frac{1}{100} \end{array}$$

b

$$\begin{array}{ccc} 4 \times \frac{2}{1} = 8 & 8 & \frac{2}{1} \times \frac{3}{2} = \frac{6}{2} = 3 \\ 6 \times \frac{2}{1} = 12 & 9 & \frac{4}{1} \times \frac{5}{4} = \frac{20}{4} = 5 \\ 5 \times \frac{3}{1} = 15 & 25 & \frac{3}{1} \times \frac{7}{6} = \frac{21}{6} = 3\frac{1}{2} \end{array}$$

Taak 12 Oefenen

1

a

$$\begin{array}{ccc} \frac{2}{2} = 1 & \frac{3}{4} & 1\frac{1}{3} \\ \frac{2}{4} = \frac{1}{2} & \frac{1}{2} & 2\frac{1}{3} \\ \frac{2}{8} = \frac{1}{4} & \frac{1}{3} & 3\frac{1}{2} \\ \frac{7}{4} = 1\frac{3}{4} & \frac{1}{10} & 3\frac{1}{10} \end{array}$$

b

$$\begin{array}{ccc} \frac{1}{4} & \frac{2}{6} = \frac{1}{3} & \frac{1}{8} \\ \frac{1}{8} & \frac{2}{8} = \frac{1}{4} & \frac{1}{5} \\ \frac{1}{9} & \frac{3}{8} & \frac{3}{10} \\ \frac{1}{10} & \frac{1}{12} & \frac{3}{6} = \frac{1}{2} \end{array}$$

2

$$\begin{array}{ccc} 2 & 3 & 2 \\ 4 & 7 & \frac{1}{2} \\ 10 & 5 & \frac{1}{4} \\ 20 & 9 & \frac{2}{3} \end{array}$$

3

$$\begin{array}{l} (\text{€ } 0,25) = \frac{3}{4} \text{ euro (€ } 0,75) \\ (\text{€ } 0,10) = \frac{1}{2} \text{ euro (€ } 0,50) \\ (\text{€ } 0,50) = 2 \text{ euro (€ } 2,00) \\ (\text{€ } 0,20) = \frac{2}{5} \text{ euro (€ } 0,40) \end{array}$$

$$\begin{array}{ccc} 2 & \frac{1}{2} & 1\frac{1}{2} \\ 4\frac{1}{2} & \frac{3}{4} & 1\frac{3}{5} \\ 1\frac{1}{2} & 1\frac{1}{4} & 3\frac{1}{3} \\ 3 & 2 & 2\frac{1}{2} \end{array}$$

4

$$\begin{array}{ccc} 3 & 2 & 20 \\ 4 & 4 & 60 \\ 2 & 3 & 10 \\ 1 & 2 & 30 \end{array}$$

$$\begin{array}{ccc} 2 & 25 & 5 \\ 3 & 32 & 5 \\ 9 & 16 & 10 \\ 10 & 28 & 3 \end{array}$$

5

a

$$\begin{array}{ccc} \frac{1}{8} & \frac{1}{4} & \frac{1}{6} \\ \frac{1}{8} & \frac{1}{4} & \frac{1}{6} \\ \frac{1}{8} & \frac{1}{4} & \frac{1}{6} \\ \frac{1}{6} & \frac{1}{10} & \frac{1}{6} \end{array}$$

b

$$\begin{array}{ccc} \frac{1}{2} \times \frac{1}{4} = \frac{1}{8} & 8 \times 2 = 16 & 12 \\ \frac{1}{2} \times \frac{1}{3} = \frac{1}{6} & 4 \times 2 = 8 & 12 \\ \frac{1}{3} \times \frac{1}{3} = \frac{1}{9} & 5 \times 3 = 15 & 6 \\ \frac{1}{4} \times \frac{1}{2} = \frac{1}{8} & 7 \times 5 = 35 & 2\frac{1}{2} \end{array}$$

6

$$\begin{array}{ccc} \frac{1}{4} & 16 & 1 \\ \frac{1}{10} & \frac{1}{3} & 10 \\ \frac{1}{15} & 20 & 6 \\ 16 & 6 & \frac{2}{3} \end{array}$$

Toets 1

1

a

$$\frac{1}{3} \quad \frac{1}{5} \quad \frac{1}{2}$$

$$\frac{1}{2} \quad \frac{1}{2} \quad \frac{1}{9}$$

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

b

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

$$3 \quad 2\frac{1}{4} \quad 1\frac{4}{5}$$

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

c

$$\frac{4}{3} \quad \frac{9}{4} \quad \frac{7}{2}$$

$$\frac{5}{2} \quad \frac{12}{5} \quad \frac{5}{3}$$

$$\frac{5}{3} \quad \frac{22}{7} \quad \frac{11}{4}$$

2

a

minder dan $\frac{1}{3}$ precies $\frac{1}{3}$ meer dan $\frac{1}{3}$

$$\frac{1}{6} \quad \frac{3}{9} \quad \frac{5}{6}$$

$$\frac{2}{9} \quad \frac{4}{12} \quad \frac{4}{9}$$

$$\frac{1}{4} \quad \quad \frac{4}{6} \quad \frac{1}{2}$$

b

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

3

$$\frac{1}{2} < \frac{1}{3} \quad \frac{3}{4} < \frac{7}{8} \quad \frac{2}{6} = \frac{1}{3}$$

$$\frac{1}{4} = \frac{2}{8} \quad \frac{3}{5} = \frac{6}{10} \quad \frac{3}{5} > \frac{2}{10}$$

$$\frac{1}{4} > \frac{1}{5} \quad \frac{1}{3} < \frac{1}{2} \quad \frac{4}{6} > \frac{1}{2}$$

$$\frac{2}{3} = \frac{4}{6} \quad \frac{2}{6} < \frac{2}{3} \quad \frac{2}{8} = \frac{3}{12}$$

4

$$1\frac{3}{4} \quad \frac{6}{5} = 1\frac{1}{5} \quad 1\frac{7}{7} = 2 \quad 2\frac{2}{2} = 3$$

$$3\frac{5}{7} \quad \frac{5}{4} = 1\frac{1}{4} \quad 2\frac{4}{4} = 3 \quad 3\frac{6}{5} = 4\frac{1}{5}$$

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

$$\frac{5}{5} = 1 \quad \frac{9}{7} = 1\frac{2}{7} \quad 2\frac{5}{4} = 3\frac{1}{4} \quad 4\frac{10}{6} = 5\frac{2}{3}$$

5

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

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

$$1\frac{4}{7} \quad 2\frac{3}{4} \quad 1\frac{6}{7} \quad 3\frac{2}{3}$$

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

6

$$1\frac{3}{5} \quad 5\frac{3}{8} \quad 4\frac{1}{2}$$

$$\frac{1}{2} \quad \frac{5}{9} \quad 3\frac{4}{5}$$

$$\frac{15}{3} \quad 3\frac{1}{2} \quad 1$$

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

$$7 \quad 7\frac{4}{7} \quad 1\frac{1}{3}$$

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

$$4 \quad 6\frac{3}{4} \quad 5\frac{5}{7}$$

$$4 \quad 1 \quad 4\frac{3}{7}$$

Toets 2

1

a

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

$$\frac{2}{2} \quad \frac{1}{7} \quad \frac{4}{4}$$

$$\frac{5}{5} \quad \frac{3}{7} \quad \frac{9}{9}$$

$$\frac{1}{4} \quad \frac{3}{14} \quad \frac{2}{11}$$

$$\frac{1}{5} \quad \frac{2}{3} \quad \frac{1}{5}$$

b

$$\frac{4}{12} \quad \frac{8}{20} \quad \frac{1}{3} \quad \frac{1}{4}$$

$$\frac{3}{12} \quad \frac{6}{9} \quad \frac{1}{4} \quad \frac{1}{2}$$

$$\frac{6}{12} \quad \frac{12}{16} \quad \frac{1}{5} \quad \frac{1}{2}$$

$$\frac{5}{20} \quad \frac{6}{10} \quad \frac{1}{6} \quad \frac{1}{5}$$

c

$$\frac{1}{3} \text{ en } \frac{2}{3} \quad \frac{5}{15} \text{ en } \frac{3}{15}$$

$$\frac{1}{5} \text{ en } \frac{1}{5} \quad \frac{3}{12} \text{ en } \frac{4}{12}$$

$$\frac{1}{7} \text{ en } \frac{1}{7} \quad \frac{5}{30} \text{ en } \frac{6}{30}$$

$$\frac{1}{3} \text{ en } \frac{1}{3} \quad \frac{3}{24} \text{ en } \frac{4}{24}$$

2

a

$$\frac{1}{2} > \frac{1}{3} \quad \frac{1}{4} < \frac{3}{8} \quad \frac{1}{3} < \frac{4}{8} \quad \frac{3}{4} > \frac{4}{8}$$

$$\frac{1}{3} = \frac{2}{6} \quad \frac{4}{5} > \frac{4}{10} \quad \frac{2}{9} < \frac{1}{3} \quad \frac{5}{6} > \frac{3}{4}$$

$$\frac{1}{4} = \frac{2}{8} \quad \frac{2}{3} = \frac{6}{9} \quad \frac{3}{6} = \frac{5}{10} \quad \frac{5}{9} < \frac{2}{3}$$

b

$$\frac{2}{6} - \frac{5}{6} - 1\frac{1}{3} - 1\frac{2}{3} - \frac{12}{6} - 2\frac{6}{9}$$

$$\frac{4}{3} \quad \frac{8}{3} \quad \frac{10}{3} \quad \frac{17}{3}$$

3

$$\frac{4}{8} + \frac{5}{8} = \frac{9}{8} = 1\frac{1}{8} \quad \frac{4}{6} + \frac{3}{6} = 1\frac{1}{6}$$

$$\frac{9}{12} + \frac{1}{12} = \frac{10}{12} = \frac{5}{6} \quad \frac{7}{14} + \frac{2}{14} = \frac{9}{14}$$

$$\frac{5}{6} + \frac{3}{6} = \frac{8}{6} = 1\frac{1}{3} \quad \frac{8}{20} + \frac{15}{20} = 1\frac{3}{20}$$

$$2\frac{3}{9} + 3\frac{1}{9} = 5\frac{4}{9} \quad 4\frac{2}{12} + 2\frac{3}{12} = 6\frac{5}{12}$$

$$4\frac{3}{10} + 2\frac{5}{10} = 6\frac{4}{5} \quad 2\frac{4}{12} + 3\frac{3}{12} = 5\frac{7}{12}$$

4

$$\frac{4}{8} - \frac{1}{8} = \frac{3}{8} \quad \frac{4}{6} - \frac{3}{6} = \frac{1}{6}$$

$$\frac{4}{9} - \frac{3}{9} = \frac{1}{9} \quad \frac{5}{10} - \frac{4}{10} = \frac{1}{10}$$

$$\frac{4}{8} - \frac{3}{8} = \frac{1}{8} \quad \frac{8}{12} - \frac{3}{12} = \frac{5}{12}$$

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

$$2\frac{3}{4} - \frac{3}{4} = 2 \quad 3\frac{8}{10} - \frac{5}{10} = 3\frac{3}{10}$$

5

a

$$2\frac{3}{5} \text{ euro (€ 2,60)} \quad 6\frac{1}{4} \quad 3\frac{3}{5} \text{ euro (€ 3,60)} \quad 2\frac{1}{5}$$

$$3\frac{3}{4} \text{ euro (€ 2,75)} \quad 6\frac{1}{10} \quad 4 \text{ euro (€ 4,00)} \quad 1\frac{1}{4}$$

$$7\frac{7}{10} \text{ euro (€ 7,70)} \quad 4 \quad 1\frac{1}{5} \text{ euro (€ 1,20)} \quad \frac{2}{3}$$

6

$$\frac{1}{12} \quad \frac{1}{2} \quad 3 \times \frac{1}{9} = \frac{1}{3}$$

$$\frac{1}{24} \quad 2 \quad 3 \times \frac{2}{6} = 1$$

$$\frac{5}{6} \quad \frac{1}{6} \quad 3\frac{1}{12}$$

$$\frac{9}{20} \quad 2\frac{1}{5} \quad 4\frac{7}{24}$$

Toets 3

1

$$\frac{1}{2} > \frac{1}{3} \quad \frac{1}{3} > \frac{1}{4} \quad \frac{4}{5} < \frac{9}{10} \quad \frac{2}{8} < \frac{4}{12}$$

$$\frac{4}{8} = \frac{1}{2} \quad \frac{2}{6} = \frac{1}{3} \quad \frac{1}{6} < \frac{2}{9} \quad \frac{1}{2} < \frac{4}{6}$$

$$\frac{1}{2} \quad \frac{1}{2} \quad 3 \quad \frac{5}{3}$$

$$\frac{1}{3} \quad \frac{3}{4} \quad 1\frac{1}{3} \quad \frac{11}{4}$$

$$\frac{2}{5} \quad \frac{1}{3} \quad 4\frac{1}{5} \quad \frac{7}{2}$$

$$\frac{3}{6} \quad \frac{1}{5} \quad 1\frac{3}{10} \quad \frac{22}{5}$$

$$\frac{11}{9} = 1\frac{2}{9} \quad \frac{1}{4} \quad 3\frac{4}{5}$$

$$\frac{4}{4} = 1 \quad 2\frac{5}{7} \quad 2\frac{3}{6} = 2\frac{1}{2}$$

$$2\frac{1}{6} \quad \frac{2}{10} = \frac{1}{5} \quad 8\frac{2}{4} = 8\frac{1}{2}$$

$$4 \quad \frac{1}{9} \quad 11\frac{1}{2}$$

2

$$\frac{1}{2} \quad \frac{5}{6} \quad 1$$

$$\frac{3}{10} \quad 1\frac{3}{10} \quad \frac{5}{12}$$

$$\frac{5}{6} \quad 1\frac{1}{12} \quad \frac{5}{24}$$

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

$$2\frac{1}{2} \quad 3\frac{1}{2} \quad 8\frac{5}{6}$$

$$1\frac{5}{6} \quad 2\frac{1}{3} \quad 6$$

3

$$\frac{5}{8} \quad \frac{1}{2} \quad \frac{1}{56}$$

$$\frac{1}{8} \quad \frac{13}{18} \quad \frac{13}{24}$$

$$\frac{5}{12} \quad \frac{1}{20} \quad \frac{1}{3}$$

$$\frac{7}{10} \quad 0 \quad 0$$

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

$$1\frac{3}{4} \quad 3\frac{1}{6} \quad \frac{4}{5}$$

4

$$\frac{1}{3} \quad \frac{1}{3} \quad \frac{1}{16} \quad 2$$

$$\frac{3}{4} \quad \frac{2}{5} \quad \frac{1}{2} \quad 8$$

$$\frac{1}{2} \quad 1\frac{2}{3} \quad \frac{2}{9} \quad 2$$

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

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

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

$$2 \quad 1\frac{1}{3} \quad \frac{1}{8}$$

$$5 \quad 1 \quad \frac{1}{8}$$

5

$$\frac{1}{4} \times \frac{1}{4} = \frac{1}{16} \quad 6 \times 2 = 12 \quad 8$$

$$\frac{1}{4} \times \frac{1}{2} = \frac{1}{8} \quad 4 \times 4 = 16 \quad 9$$

$$\frac{1}{3} \times \frac{1}{2} = \frac{1}{6} \quad 3 \times 3 = 9 \quad \frac{2}{5}$$

$$\frac{1}{2} \times \frac{1}{6} = \frac{1}{12} \quad 5 \times 2 = 10 \quad \frac{1}{4}$$

6

$$\frac{4}{9} \quad 4 \quad \frac{1}{12} \quad \frac{1}{4}$$

$$4\frac{4}{5} \quad 0 \quad \frac{23}{30} \quad 2\frac{5}{18}$$

$$1\frac{1}{2} \quad \frac{2}{3} \quad 3 \quad \frac{1}{8}$$

$$3 \quad 12 \quad 3 \quad 3\frac{2}{5}$$

$$\frac{1}{4} \quad 15 \quad 10 \quad \frac{5}{6}$$

$$6\frac{1}{2} \quad 25 \quad 8 \quad 6$$

$$\frac{1}{10} \quad 2\frac{7}{10} \quad 1\frac{1}{4} \quad 4$$

$$1 \quad \frac{7}{12} \quad 3\frac{1}{9} \quad \frac{2}{3} + \frac{2}{3} + \frac{2}{3} = 2$$