

Blok 2

2-1 Vermenigvuldigen

1a $3 \times 7 = 21$

b $5 \times 6 = 30$

c $7 \times 3 = 21$

d $6 \times 7 = 42$

e $6 \times 8 = 48$

f $0 \times 7 = 0$

g $2 \times 9 = 18$

h $3 \times 8 = 24$

i $6 \times 9 = 54$

j $9 \times 7 = 63$

k $1 \times 0 = 0$

l $9 \times 9 = 81$

2a $5 \times 37 = 5 \times 30 + 5 \times 7 = 150 + 35 = 185$

b $7 \times 42 = 7 \times 40 + 7 \times 2 = 280 + 14 = 294$ tegels

3a $3 \times 17 = 3 \times 10 + 3 \times 7 = 30 + 21 = 51$

b $5 \times 62 = 5 \times 60 + 5 \times 2 = 300 + 10 = 310$

c $8 \times 19 = 8 \times 10 + 8 \times 9 = 80 + 72 = 152$

d $6 \times 208 = 6 \times 200 + 6 \times 8 = 1200 + 48 = 1248$

e $5 \times 373 = 5 \times 300 + 5 \times 70 + 5 \times 3 = 1500 + 350 + 15 = 1865$

4a

$\times$	60	7
40	2400	280
3	180	21

b $43 \times 67 = 40 \times 60 + 40 \times 7 + 3 \times 60 + 3 \times 7 =$
 $= 2400 + 280 + 180 + 21 = 2881$

5

$\begin{array}{r} 23 \\ \underline{17} \times \\ 161 \\ \underline{230} + \\ 391 \end{array}$	$\begin{array}{r} 51 \\ \underline{72} \times \\ 102 \\ \underline{3570} + \\ 3672 \end{array}$	$\begin{array}{r} 32 \\ \underline{92} \times \\ 64 \\ \underline{2880} + \\ 2944 \end{array}$
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6a $6 \times 125 = 600 + 150 = 750$

b $70 \times 35 = 2100 + 350 = 2450$

c $81 \times 79 = 5600 + 70 + 720 + 9 = 6399$

d $65 \times 18 = 600 + 50 + 480 + 40 = 1170$

e $5 \times 3730 = 15\,000 + 3500 + 150 = 18\,650$

f $20 \times 4095 = 80\,000 + 1800 + 100 = 81\,900$

7a $7 \times 65 + 3 \times 95 =$

$455 + 285 = 740$

Ze moet € 7,40 betalen.

b $4 \times 80 + 7 \times 95 =$

$320 + 665 = 985$

Hij moet € 9,85 betalen en krijgt dus € 0,15 terug.

8 $4 \times 12 + 2 \times 23 = 48 + 46 = 94$

Ze loopt in een week 94 km.

2-2 Lengtematen

- 1a** Else is 1,73 m lang.
b De afstand van Groningen naar Utrecht is ongeveer 200 km.
c Het wiskundeboek is 16 mm dik.
d De hoogte van een bladzijde uit dit boek is 30 cm.
- 2a** 1 m = 100 cm
b 1 m = 10 dm
c 1 cm = 10 mm
d 1 km = 1000 m
e 1000 dm = 10 000 cm
f 1000 cm = 100 dm
g 1000 km = 1 000 000 m
h 1000 m = 1 km
- 3a** $14 \text{ km} = 14 \times 1000 \text{ m} = 14\,000 \text{ m}$
b $50 \text{ m} = 50 \times 100 \text{ cm} = 5000 \text{ cm}$
c $42 \text{ m} = 42 \times 10 \text{ dm} = 420 \text{ dm}$
d $98 \text{ dm} = 98 \times 10 \text{ cm} = 980 \text{ cm}$
e $25 \text{ cm} = 25 : 10 = 2,5 \text{ dm}$
f $98 \text{ dm} = 98 : 10 \text{ m} = 9,8 \text{ m}$
g $150 \text{ m} = 150 : 1000 \text{ km} = 0,15 \text{ km}$
h $2800 \text{ cm} = 2800 : 100 \text{ m} = 28 \text{ m}$
- 4** De omtrek van de figuur is 12 zijden.
 1 zijde is 50 m, dus de omtrek van de figuur in werkelijkheid is
 $12 \times 50 \text{ m} = 600 \text{ m}$
- 5a** $35 \text{ m} = 35 \times 10 \text{ dm} = 350 \text{ dm}$
b $860 \text{ cm} = 860 : 100 \text{ m} = 8,6 \text{ m}$
c $8400 \text{ mm} = 8400 : 100 \text{ dm} = 84 \text{ dm}$
d $3,5 \text{ km} = 3,5 \times 1000 \text{ m} = 3500 \text{ m}$
e $23 \text{ m} = 23 \times 100 \text{ cm} = 2300 \text{ cm}$
f $43\,000 \text{ cm} = 430 \text{ m} = 0,43 \text{ km}$
g $320 \text{ dm} = 3200 \text{ cm} = 32\,000 \text{ mm}$
h $56 \text{ m} = 56 : 1000 \text{ km} = 0,056 \text{ km}$
- 6a** 1,2 m (= 120 cm); 340 cm; 65 dm (= 650 cm)
b 2,5 cm; 32 mm (= 3,2 cm); 25 dm (= 250 cm)
c 30 000 dm (= 3 km); 45 km; 50 000 m (= 50 km)
d 2 cm; 340 mm (= 34 cm); 0,4 m (= 40 cm)
- 7a** $75 \text{ cm} + 3 \text{ dm} = 75 \text{ cm} + 30 \text{ cm} = 105 \text{ cm}$
b $3,4 \text{ m} + 5 \text{ dm} = 34 \text{ dm} + 5 \text{ dm} = 39 \text{ dm}$
c $7,5 \text{ cm} + 35 \text{ mm} = 75 \text{ mm} + 35 \text{ mm} = 110 \text{ mm}$
d $35 \text{ dm} + 150 \text{ cm} = 3,5 \text{ m} + 1,5 \text{ m} = 5 \text{ m}$
- 8** De ontbrekende lengte van een muur is $4,8 - 3 = 1,8 \text{ m}$.
 $3 + 5 + 4,8 + 2,7 + 1,8 + 2,3 = 19,6$
 De deur is 90 cm = 0,9 m breed.
 Johan heeft $19,6 - 0,9 = 18,7 \text{ m}$ plint nodig.

9 $3 \times 400 = 1200 \text{ m}$
 $1200 \text{ m} = 1,2 \text{ km}$

10 $2700 \text{ m} = 2,7 \text{ km}$
 Heen en terug legt Ron $2,7 + 2,7 = 5,4 \text{ km}$ af.
 De teller staat dan op $2776 + 5,4 = 2781,4 \text{ km}$.

2-3 Breuken groter dan 1



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

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

c $3\frac{7}{9} - \frac{1}{9} = 3\frac{6}{9} = 3\frac{2}{3}$

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

e $\frac{5}{8} + \frac{3}{8} = \frac{8}{8} = 1$

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

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

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

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

b $\frac{12}{5} = \frac{10}{5} + \frac{2}{5} = 2 + \frac{2}{5} = 2\frac{2}{5}$

c $\frac{34}{8} = 4\frac{2}{8} = 4\frac{1}{4}$

d $\frac{7}{8} + \frac{3}{8} = \frac{10}{8} = 1\frac{2}{8} = 1\frac{1}{4}$

e $\frac{4}{9} + \frac{2}{3} = \frac{4}{9} + \frac{6}{9} = \frac{10}{9} = 1\frac{1}{9}$

f $\frac{6}{7} + \frac{1}{2} = \frac{12}{14} + \frac{7}{14} = \frac{19}{14} = 1\frac{5}{14}$

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

b $5\frac{3}{10} + 2\frac{4}{5} = 5\frac{3}{10} + 2\frac{8}{10} = 7 + \frac{11}{10} = 8\frac{1}{10}$

c $5\frac{7}{20} + \frac{4}{5} = 5\frac{7}{20} + \frac{16}{20} = 5 + \frac{23}{20} = 6\frac{3}{20}$

d $3\frac{1}{3} + 2\frac{7}{8} = 3\frac{8}{24} + 2\frac{21}{24} = 5 + \frac{29}{24} = 6\frac{5}{24}$

5 $5\frac{1}{2} + 3\frac{3}{4} + 2\frac{5}{8} = 5\frac{4}{8} + 3\frac{6}{8} + 2\frac{5}{8} = 10 + \frac{15}{8} = 10 + 1\frac{7}{8} = 11\frac{7}{8}$

In een jaar eten ze samen $11\frac{7}{8} \text{ kg}$ drop.

6a $2\frac{1}{7} - \frac{5}{7} = 1 + \frac{7}{7} + \frac{1}{7} - \frac{5}{7} = 1\frac{8}{7} - \frac{5}{7} = 1\frac{3}{7}$

b $1\frac{4}{11} - \frac{7}{11} = \frac{11}{11} + \frac{4}{11} - \frac{7}{11} = \frac{15}{11} - \frac{7}{11} = \frac{8}{11}$

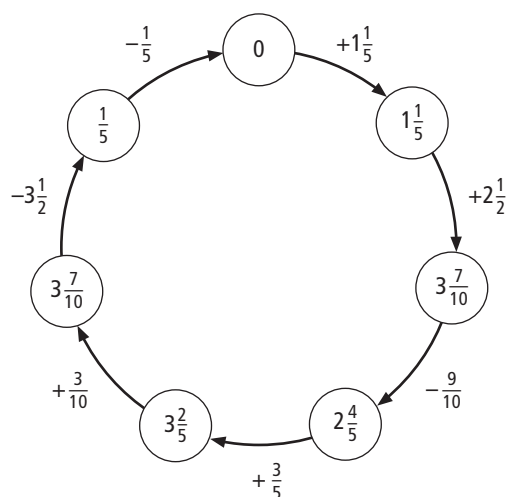
c $3\frac{1}{5} - \frac{1}{3} = 3\frac{3}{15} - \frac{5}{15} = 2 + \frac{15}{15} + \frac{3}{15} - \frac{5}{15} = 2 + \frac{13}{15} = 2\frac{13}{15}$

d $6\frac{1}{8} - 2\frac{1}{4} = 6 + \frac{1}{8} - 2 - \frac{1}{4} = 5 + \frac{9}{8} - 2 - \frac{2}{8} = 3\frac{7}{8}$

- 7a $3\frac{5}{8} - 2\frac{1}{4} = 3\frac{5}{8} - 2\frac{2}{8} = 1\frac{3}{8}$
- b $4\frac{1}{7} - 1\frac{3}{7} = 3 + \frac{1}{7} - 1 - \frac{3}{7} = 2\frac{5}{7}$
- c $12\frac{1}{2} - 3\frac{3}{4} = 12\frac{2}{4} - 3\frac{3}{4} = 11 + \frac{6}{4} - 3 - \frac{3}{4} = 8\frac{3}{4}$
- d $4\frac{1}{7} - \frac{2}{3} = 4\frac{3}{21} - \frac{14}{21} = 3 + \frac{24}{21} - \frac{14}{21} = 3\frac{10}{21}$
- e $4\frac{2}{3} - 1\frac{5}{6} = 4\frac{4}{6} - 1\frac{5}{6} = 3 + \frac{10}{6} - 1 - \frac{5}{6} = 2\frac{5}{6}$
- f $7\frac{3}{8} - \frac{5}{6} = 7\frac{9}{24} - \frac{20}{24} = 6 + \frac{33}{24} - \frac{20}{24} = 6\frac{13}{24}$
- 8 $8\frac{1}{2} - 3\frac{3}{4} = 8\frac{2}{4} - 3\frac{3}{4} = 7 + \frac{6}{4} - 3 - \frac{3}{4} = 4\frac{3}{4}$
 Hij houdt nog $4\frac{3}{4}$ kg aardappelen over.

9

	$+\frac{2}{5} \rightarrow$			
	$\frac{4}{5}$	$1\frac{1}{5}$	$1\frac{3}{5}$	2
$+\frac{1}{5} \downarrow$	1	$1\frac{2}{5}$	$1\frac{4}{5}$	$2\frac{1}{5}$
	$1\frac{1}{5}$	$1\frac{3}{5}$	2	$2\frac{2}{5}$
	$1\frac{2}{5}$	$1\frac{4}{5}$	$2\frac{1}{5}$	$2\frac{3}{5}$



2-4 Tabellen

- 1a Hij verdient dan $6 \times 3,50 = 21$ euro.
- b Hij verdient dan $7 + 1,75 = 8,75$ euro.
- 2a Hij moet twee keer € 1,60, dus € 3,20 betalen.
- b Zij moet € 1,60 + € 0,80 = € 2,40 betalen.
- c
- | | | | | | | |
|--------------------|-----|-----|----|----|-----|-----|
| gewicht in grammen | 200 | 100 | 50 | 25 | 300 | 600 |
| prijs in centen | 160 | 80 | 40 | 20 | 240 | 480 |
- d $375 \text{ gram} = 300 + 50 + 25 \text{ gram}$ dus moet ze $2,40 + 0,40 + 0,20 = 3,00$ euro betalen.
- 3a
- | | | | | | | | |
|--------------------|-----|-----|----|----|-----|-----|-----|
| gewicht in grammen | 100 | 200 | 50 | 10 | 250 | 260 | 310 |
| prijs in centen | 50 | 100 | 25 | 5 | 125 | 130 | 155 |
- b
- | | | | | | | | |
|--------------------|----|-----|-----|-----|-----|-----|-----|
| gewicht in grammen | 10 | 50 | 100 | 200 | 60 | 70 | 280 |
| prijs in centen | 20 | 100 | 200 | 400 | 120 | 140 | 560 |

Blok 2

4	<i>gewicht</i>	2,5	0,5	0,1	0,6
	<i>prijs in centen</i>	4	0,80	0,16	0,96

Voor 0,6 kg betaal je € 0,96.

5	<i>aantal</i>	30	6	12	18
	<i>prijs in centen</i>	500	100	200	300

18 sinaasappelen kosten € 3,-.

6	<i>aantal poffertjes</i>	10	40	8	48
	<i>aantal gram bloem</i>	75	300	60	360

Voor 48 poffertjes heb je 360 gram bloem nodig.

7	<i>aantal euro's</i>	4	2	6	18
	<i>aantal dollars</i>	5	2,5	7,5	22,50

Voor 18 euro's krijg je 22,50 dollars.

8	<i>aantal euro's</i>	4	8	1,6	49,6
	<i>aantal dollars</i>	5	10	2	62

Voor 62 dollars betaal je € 49,60.

9a	<i>aantal liter verf</i>	2,5	0,5	2	4,5
	<i>aantal m²</i>	15	3	12	27

Met 4,5 liter verf kun je 27 m² schilderen.

b	<i>aantal liter verf</i>	2,5	2	10	12
	<i>aantal m²</i>	15	12	60	72

Voor 72 m² heb je 12 liter verf nodig.

10a	<i>aantal gram jam</i>	400	80	5	75
	<i>aantal gram suiker</i>	240	48	3	45

In 75 gram jam zit 45 gram suiker.

b	<i>aantal gram jam</i>	75	150		
	<i>aantal gram suiker</i>	45	90		

In deze pot zit nog 150 gram jam.

2-5 Handig rekenen

- 1a $32,05 + 0,95 = 33$
 $50 - 33 = 17$, dus ze krijgt daarna nog € 17,- terug.

- b In totaal krijgt ze € 17,95 terug.

- 2a $134 - 97 =$
 $97 + 3 + 34 = 134$, de uitkomst is $3 + 34 = 37$

- b $1000 - 245 =$
 $245 + 5 + 50 + 700 = 1000$, de uitkomst is $5 + 50 + 700 = 755$

- c** $1500 - 1173 =$
 $1173 + 7 + 20 + 300 = 1500$, de uitkomst is $7 + 20 + 300 = 327$
- d** $1003 - 998 =$
 $998 + 2 + 3 = 1003$, de uitkomst is $2 + 3 = 5$
- 3a** Hij telt 2 bij 68 op en haalt er ook 2 van 47 af. Het totaal blijft zo hetzelfde. $68 + 47 = 70 + 45 = 115$
- b** $158 + 137 = (158 + 2) + (137 - 2) = 160 + 135 = 295$
- 4a** $196 - 78 =$
 $(196 + 4) - (78 + 4) =$
 $200 - 82 = 118$
- b** $103 - 65 = (103 - 3) - (65 - 3) = 100 - 62 = 138$
- 5a** $56 + 38 = 60 + 34 = 94$
- b** $298 + 67 = 300 + 65 = 365$
- c** $248 + 502 = 250 + 500 = 750$
- d** $201 - 44 = 200 - 43 = 157$
- e** $611 - 56 = 600 - 45 = 555$
- f** $201 - 97 = 200 - 96 = 104$
- 6a** $132 + 37 + 68 = 132 + 68 + 37 = 200 + 37 = 237$
- b** $7 + 39 + 193 = 7 + 193 + 39 = 200 + 39 = 239$
- c** $145 + 87 + 55 = 145 + 55 + 87 = 200 + 87 = 287$
- 7** $20 \times 31 \times 5 =$
 $20 \times 5 \times 31 =$
 $100 \times 31 = 3100$
- 8a** $125 \times 11 \times 8 = 125 \times 8 \times 11 = 1000 \times 11 = 11\,000$
- b** $75 \times 9 \times 4 = 75 \times 4 \times 9 = 300 \times 9 = 2700$
- c** $25 \times 23 \times 12 = 25 \times 12 \times 23 = 300 \times 23 = 6900$
- d** $17 \times 50 \times 4 = 17 \times 200 = 3400$
- e** $19 \times 5 \times 20 = 19 \times 100 = 1900$
- f** $14 \times 15 \times 5 \times 4 = 14 \times 5 \times 15 \times 4 = 70 \times 60 = 4200$
- 9a** $5 \times 680 = 10 \times 340 = 3400$
- b** $75 \times 8 = 150 \times 4 = 600$
- c** $350 \times 6 = 700 \times 3 = 2100$
- 10a** $1\text{ kg} = 4 \times 250\text{ gram}$
 $4 \times 1,75 = 2 \times 3,50 = 7$, dus de rozijnen kosten € 7,- per kg.
- b** $250\text{ gram} : 5 = 50\text{ gram}$
 $1,75 : 5 = 3,50 : 10 = 0,35$ dus 50 gram rozijnen kosten € 0,35.

2-6 Optellen en aftrekken

- 1a** $3,56 = 3 + 0,50 + 0,06$
b $0,12 = 0,10 + 0,02$
c $5,43 = 5 + 0,40 + 0,03$
d $2,07 = 2 + 0,07$
e $3,88 = 3 + 0,80 + 0,08$
f $6,90 = 6 + 0,90$
- 2a** Het uurloon wordt dan $2,78 + 0,64 = 3,42$ euro.
b Ze moet $3,78 + 2,62 = 6,40$ euro betalen.
- 3a** Hij heft nog $2,85 - 0,75 = 2,10$ euro over in zijn portemonnee.
b Ze heeft nog $45,73 - 12,68 = 33,05$ euro op haar rekening over.
- 4a** $7,3 - 2,05 = 7,30 - 2,05 = 5,25$
b $3,4 - 1,25 = 3,40 - 1,25 = 2,15$
c $6,07 + 2,3 = 6,07 + 2,30 = 8,37$
- 5a** $13,68 + 2,13 = 15,81$
b $45,02 + 8,7 = 53,72$
c $1,4 + 0,75 = 2,15$
d $0,98 - 0,32 = 0,66$
e $13,75 - 8,68 = 5,07$
f $4,20 - 1,5 = 2,70$
- 6**
$$\begin{array}{r} 85,967 \\ 3,054 - \\ \hline 82,913 \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \\ \leftarrow \end{array} \quad \begin{array}{l} 80 + 5 + 0,9 + 0,06 + 0,007 \\ 3 + 0,0 + 0,05 + 0,004 - \\ 80 + 2 + 0,9 + 0,01 + 0,003 \end{array}$$
- 7a**
$$\begin{array}{r} 1 \quad 1 \\ 156,709 \\ 138,005 + \\ \hline 294,714 \end{array} \quad \begin{array}{l} 6 \quad 12 \quad 2 \quad 14 \\ \mathbf{b} \quad 70,346 \\ 2,082 - \\ \hline 68,264 \end{array} \quad \begin{array}{l} 4 \quad 17 \\ \mathbf{c} \quad 0,857 \\ 0,039 - \\ \hline 0,818 \end{array}$$
- 8a** $12,389 + 0,705 + 345,98$ is ongeveer $12 + 1 + 346 = 359$.
b $0,083 + 18,25 + 0,19876$ is ongeveer $0 + 18 + 0 = 18$.
c $23,67 + 0,4 + 985,002$ is ongeveer $24 + 0 + 985 = 1009$.
- 9** $0,4 + 23 + 7,8 = 31,2$
 Ze heeft in totaal 31,2 km afgelegd.
- 10a** $7,95 + 4,49 + 4,49 =$
 $8 + 4,5 + 4,5 - 0,05 - 0,01 - 0,01 =$
 $17 - 0,07 = 16,93$
 Hij krijgt $20 - 16,93 = € 3,07$ terug.
b $62,83 + 5,29 = 68,12$
 Zij moet € 68,12 betalen.

Test jezelf

T-1

$\begin{array}{r} 14 \\ 52 \times \\ \hline 28 \end{array}$	$\begin{array}{r} 46 \\ 22 \times \\ \hline 92 \end{array}$	$\begin{array}{r} 88 \\ 15 \times \\ \hline 440 \end{array}$	$\begin{array}{r} 51 \\ 32 \times \\ \hline 102 \end{array}$
$\begin{array}{r} 700 + \\ 728 \end{array}$	$\begin{array}{r} 920 + \\ 1012 \end{array}$	$\begin{array}{r} 880 + \\ 1320 \end{array}$	$\begin{array}{r} 1530 + \\ 1632 \end{array}$

T-2 $6 \times 55 = 300 + 30 = 330$
Joyce moet € 3,30 betalen.

- T-3a** Het lokaal is 62 dm breed.
b De tafel is 78 cm hoog.
c Het tafelblad is 23 mm dik.
d De omtrek van de aarde is 42 000 km.

- T-4a** 25 m = 250 dm
b 1250 cm = 12,5 m
c 9400 mm = 94 dm
d 12,3 km = 12 300 m
e 37 m = 3700 cm
f 23 500 m = 23,5 km

- T-5a** $1\frac{3}{8} + 2\frac{1}{2} = 1\frac{3}{8} + 2\frac{4}{8} = 3\frac{7}{8}$
b $3\frac{1}{5} + \frac{2}{5} = 3\frac{3}{5}$
c $7\frac{3}{4} + 3\frac{1}{16} = 7\frac{12}{16} + 3\frac{1}{16} = 10\frac{13}{16}$
d $6\frac{2}{7} - \frac{9}{14} = 6\frac{4}{14} - \frac{9}{14} = 5\frac{18}{14} - \frac{9}{14} = 5\frac{9}{14}$
e $12\frac{1}{3} - \frac{1}{2} = 12\frac{2}{6} - \frac{3}{6} = 11\frac{8}{6} - \frac{3}{6} = 11\frac{5}{6}$
f $2\frac{1}{12} - \frac{1}{3} = 2\frac{1}{12} - \frac{4}{12} = 1\frac{13}{12} - \frac{4}{12} = 1\frac{9}{12} = 1\frac{3}{4}$

T-6 $1\frac{1}{3} + 1\frac{3}{4} = 1\frac{4}{12} + 1\frac{9}{12} = 2\frac{13}{12} = 3\frac{1}{12}$
Hij heeft in totaal $3\frac{1}{12}$ liter water.

- T-7a** 300 gram kost $3 \times € 1,20 = € 3,60$.
b 450 gram kost $4 \times € 1,20 + € 0,60 = € 4,80 + € 0,60 = € 5,40$.

T-8

a	<i>gewicht</i> in grammen	100	200	50	10	250	260	310
	<i>prijs</i> in centen	250	500	125	25	625	650	775
b	<i>gewicht</i> in grammen	10	50	100	20	40	80	190
	<i>prijs</i> in centen	420	2100	4200	840	1680	3360	7980
c	<i>gewicht</i> in grammen	350	35	5	10	20	80	90
	<i>prijs</i> in centen	1400	140	20	40	80	320	360

- T-9a** $14 + 86 + 77 = 100 + 77 = 177$
b $27 + 88 + 73 = 27 + 73 + 88 = 100 + 88 = 188$
c $31 + 17 + 69 = 31 + 69 + 17 = 100 + 17 = 117$
d $4 \times 33 \times 25 = 4 \times 25 \times 33 = 100 \times 33 = 3300$
e $5 \times 17 \times 2 = 5 \times 2 \times 17 = 10 \times 17 = 170$
f $13 \times 40 \times 25 = 40 \times 25 \times 13 = 1000 \times 13 = 13\,000$

- T-10a** $5 \times 228 = 10 \times 114 = 1140$
b $45 \times 8 = 90 \times 4 = 360$

- T-11** $6,95 + 6,95 = (7 - 0,05) + (7 - 0,05) = 14 - 0,10 = 13,90$
 $20 - 13,90 = 6,10$ dus ze krijgt € 6,10 terug.

- T-12a** $15,68 + 8,17 = 23,85$
b $5,32 + 18,75 = 24,07$
c $3,5 + 0,68 = 4,18$
d $1,18 - 0,52 = 0,66$

Extra oefening

- | | |
|-------------------------------|----------------------------|
| E-1a $4 \times 7 = 28$ | f $3 \times 7 = 21$ |
| b $6 \times 6 = 36$ | g $0 \times 9 = 0$ |
| c $8 \times 3 = 24$ | h $5 \times 8 = 40$ |
| d $5 \times 9 = 45$ | i $7 \times 9 = 63$ |
| e $6 \times 7 = 42$ | |

- | | | | | |
|------------|---|--|--|--|
| E-2 | $\begin{array}{r} 32 \\ 72 \times \\ 64 \\ \hline 2240 + \\ 2304 \end{array}$ | $\begin{array}{r} 17 \\ 27 \times \\ 119 \\ \hline 340 + \\ 459 \end{array}$ | $\begin{array}{r} 19 \\ 55 \times \\ 95 \\ \hline 950 + \\ 1045 \end{array}$ | $\begin{array}{r} 514 \\ 32 \times \\ 1028 \\ \hline 15420 + \\ 16448 \end{array}$ |
|------------|---|--|--|--|

- E-3a** $125 \text{ cm} = 12,5 \text{ dm}$
b $650 \text{ cm} = 6500 \text{ mm}$
c $93\,000 \text{ dm} = 930\,000 \text{ cm}$
d $2,35 \text{ km} = 2350 \text{ m}$
e $127 \text{ m} = 12\,700 \text{ cm}$
f $3\,600 \text{ m} = 3,6 \text{ km}$

- E-4** $7,3 + 5,9 = 13,2$
De afstand is $13,2 \text{ km} = 13\,200 \text{ m}$.

- E-5a** $3\frac{1}{9} - \frac{5}{9} = 2 + \frac{1}{9} - \frac{5}{9} = 2\frac{10}{9} - \frac{5}{9} = 2\frac{5}{9}$
b $3\frac{4}{7} - \frac{6}{7} = 2\frac{7}{7} + \frac{4}{7} - \frac{6}{7} = 2\frac{11}{7} - \frac{6}{7} = 2\frac{5}{7}$
c $6\frac{1}{5} - 1\frac{3}{10} = 6 + \frac{2}{10} - 1 - \frac{3}{10} = 5 + \frac{12}{10} - 1 - \frac{3}{10} = 4\frac{9}{10}$

E-6a $6\frac{7}{8} - 2\frac{1}{4} = 6\frac{7}{8} - 2\frac{2}{8} = 4\frac{5}{8}$

b $6\frac{1}{9} - 3\frac{2}{9} = 5\frac{10}{9} - 3\frac{2}{9} = 2\frac{8}{9}$

c $2\frac{1}{5} - 1\frac{5}{6} = 2\frac{6}{30} - 1\frac{25}{30} = 1\frac{36}{30} - 1\frac{25}{30} = \frac{11}{30}$

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

e $5\frac{2}{5} - 1\frac{7}{10} = 5\frac{4}{10} - 1\frac{7}{10} = 4\frac{14}{10} - 1\frac{7}{10} = 3\frac{7}{10}$

f $6\frac{5}{12} - \frac{5}{6} = 6\frac{5}{12} - \frac{10}{12} = 5\frac{17}{12} - \frac{10}{12} = 5\frac{7}{12}$

E-7a

gewicht in kg	2	1	0,5	0,1
prijs in centen	520	260	130	26

b Voor 0,6 kg betaal je € 1,56.

c

aantal koeken	4	2	1	15
gewicht in grammen	200	100	50	750

15 koeken wegen 750 gram.

d

aantal liter verf	2,5	5	1	3,5
aantal m ²	10	20	4	14

Met 3,5 liter kun je 14 m² schilderen.

E-8a $59 + 17 = 60 + 16 = 76$

b $197 + 45 = 200 + 42 = 242$

c $138 + 303 = 141 + 300 = 441$

d $302 - 37 = 300 - 35 = 265$

e $412 - 46 = 400 - 34 = 366$

f $502 - 86 = 500 - 84 = 416$

E-9a $25 \times 13 \times 8 = 25 \times 8 \times 13 = 200 \times 13 = 2600$

b $19 \times 50 \times 4 = 19 \times 200 = 3800$

c $125 \times 9 \times 8 = 125 \times 8 \times 9 = 1000 \times 9 = 9000$

d $11 \times 16 \times 50 = 11 \times 800 = 8800$

e $5 \times 83 \times 20 = 5 \times 20 \times 83 = 100 \times 83 = 8300$

f $18 \times 16 \times 5 \times 5 = 18 \times 5 \times 16 \times 5 = 90 \times 80 = 7200$

E-10a Hij heeft € 1,65 – € 1,20 = € 0,45 over in zijn portemonnee.

b Ze heeft nog € 135,23 – € 32,61 = € 102,62 op haar rekening over.