

**TOETS EN
FOUTENANALYSE**

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**NUTTIGE
INFORMATIE****1 Handleiding****1.1 Kopieerbladen**

nihil

1.2 Huistaken

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2 Werkboek

5B: bladzijden 31, 39, 47, 55, 56, 64, 65 en 73

5C: bladzijden 4 en 5

3 Posters

poster 3: Breukenladder

poster 7: Heuristiek

poster 11: Delers

4 Scheurblokken

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5 Cd-rom

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6 Kompasje 5

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pagina 30: Vermenigvuldigen met natuurlijke getallen en kommagetallen

pagina 31: Delen met natuurlijke getallen en kommagetallen

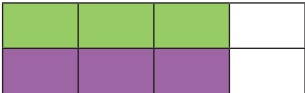
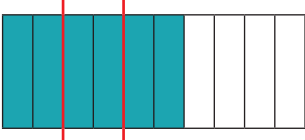
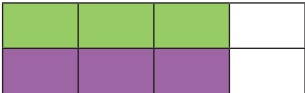
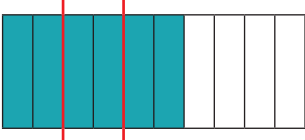
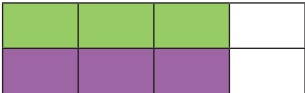
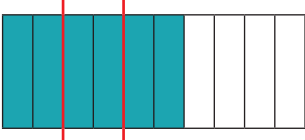
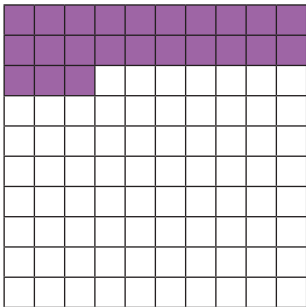
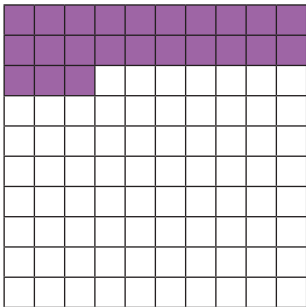
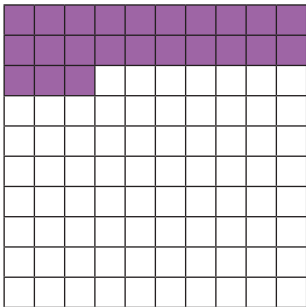
pagina 32: Volgorde van de bewerkingen

pagina's 32 en 33: Hoofdrekenen met breuken

pagina 34: Een procent/percent nemen van natuurlijke getallen en kommagetallen

pagina 35: Ik controleer met de omgekeerde bewerking.
Schatten

Bewerkingen - Hoofdrekenen		naam _____										
1	Los op. Je mag tussenstappen noteren. $9750 + 4698 + 3250 = \underline{13\ 000 + 4698 = 17\ 698}$ $989 + 7436 = \underline{1000 + 7425 = 8425}$ $57\ 908 - 3997 = \underline{53\ 908 + 3 = 53\ 911}$ $8005 - 3019 = \underline{5005 - 19 = 5000 - 14 = 4986}$ $40 \times 900 = \underline{36\ 000}$ $11 \times 350 = \underline{3500 + 350 = 3850}$ $380\ 000 : 1000 = \underline{380}$ $75 : 6 = \underline{12}$ rest $\underline{3}$											
2	Los op. Je mag tussenstappen noteren. Is je uitkomst mogelijk? $4,5 + 6,5 = \underline{11}$ $8,25 + 3,8 = \underline{12,25 - 0,2 = 12,05}$ $8,4 - 2,9 = \underline{5,4 + 0,1 = 5,5}$ $7 - 2,45 = \underline{4,55}$ $1000 \times 4,38 = \underline{4380}$ $50 \times 2,5 = \underline{5 \times 25 = 125}$ $6,5 : 10 = \underline{0,65}$ $0,42 : 6 = \underline{0,07}$											
3	Los op. Noteer de tussenstappen. $(1,4 : 10) + (2 \times 0,43) = \underline{0,14 + 0,86 = 1}$ $(9 \times 2,5) : 10 = \underline{22,5 : 10 = 2,25}$ $100\ 000 - (12\ 500 + 27\ 500) = \underline{100\ 000 - 40\ 000 = 60\ 000}$ $(4 \times 1,5) : 20 = \underline{6 : 20 = 3 : 10 = 0,3}$											
4	Los op. <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; border-bottom: 1px solid black;">$\frac{1}{2}$ van 1800 = $\underline{900}$</td> <td style="width: 50%; border-bottom: 1px solid black;">$\frac{1}{7}$ van 14 210 = $\underline{2030}$</td> </tr> <tr> <td style="border-bottom: 1px solid black;">$\frac{1}{5}$ van 4500 = $\underline{900}$</td> <td style="border-bottom: 1px solid black;">$\frac{1}{2}$ van 5 = $\underline{2,5}$</td> </tr> <tr> <td style="border-bottom: 1px solid black;">$\frac{3}{10}$ van 1200 = $\underline{3 \times 120 = 360}$</td> <td style="border-bottom: 1px solid black;">$\frac{5}{6}$ van 2400 = $\underline{5 \times 400 = 2000}$</td> </tr> <tr> <td style="border-bottom: 1px solid black;">$\frac{3}{4} \times 800 = \underline{3 \times 200 = 600}$</td> <td style="border-bottom: 1px solid black;">$\frac{2}{3} \times 1,2 = \underline{2 \times 0,4 = 0,8}$</td> </tr> <tr> <td>$\frac{1}{8} \times 2,4 = \underline{0,3}$</td> <td>$\frac{2}{9} \times 3,6 = \underline{2 \times 0,4 = 0,8}$</td> </tr> </table>		$\frac{1}{2}$ van 1800 = $\underline{900}$	$\frac{1}{7}$ van 14 210 = $\underline{2030}$	$\frac{1}{5}$ van 4500 = $\underline{900}$	$\frac{1}{2}$ van 5 = $\underline{2,5}$	$\frac{3}{10}$ van 1200 = $\underline{3 \times 120 = 360}$	$\frac{5}{6}$ van 2400 = $\underline{5 \times 400 = 2000}$	$\frac{3}{4} \times 800 = \underline{3 \times 200 = 600}$	$\frac{2}{3} \times 1,2 = \underline{2 \times 0,4 = 0,8}$	$\frac{1}{8} \times 2,4 = \underline{0,3}$	$\frac{2}{9} \times 3,6 = \underline{2 \times 0,4 = 0,8}$
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5	<p>Los op. Vereenvoudig waar het kan.</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; border-right: 1px solid black; padding: 5px;">$\frac{2}{9} + \frac{4}{9} = \frac{6}{9} = \frac{2}{3}$</td> <td style="width: 50%; padding: 5px;">$\frac{7}{8} - \frac{3}{8} = \frac{4}{8} = \frac{1}{2}$</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">$\frac{7}{10} + \frac{5}{10} + \frac{8}{10} = \frac{20}{10} = 2$</td> <td style="padding: 5px;">$1 - \frac{7}{10} = \frac{3}{10}$</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">$\frac{4}{7} + \frac{3}{7} = 1$</td> <td style="padding: 5px;">$\frac{5}{9} - \frac{1}{3} = \frac{5}{9} - \frac{3}{9} = \frac{2}{9}$</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">$\frac{5}{8} + \frac{3}{8} = 1$</td> <td style="padding: 5px;">$\frac{5}{6} - \frac{1}{2} = \frac{5}{6} - \frac{3}{6} = \frac{2}{6} = \frac{1}{3}$</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">$\frac{3}{4} + \frac{1}{8} = \frac{6}{8} + \frac{1}{8} = \frac{7}{8}$</td> <td style="padding: 5px;">$\frac{1}{2} - \frac{3}{10} = \frac{5}{10} - \frac{3}{10} = \frac{2}{10} = \frac{1}{5}$</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">$\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$</td> <td style="padding: 5px;">$\frac{3}{4} - \frac{2}{3} = \frac{9}{12} - \frac{8}{12} = \frac{1}{12}$</td> </tr> </table>	$\frac{2}{9} + \frac{4}{9} = \frac{6}{9} = \frac{2}{3}$	$\frac{7}{8} - \frac{3}{8} = \frac{4}{8} = \frac{1}{2}$	$\frac{7}{10} + \frac{5}{10} + \frac{8}{10} = \frac{20}{10} = 2$	$1 - \frac{7}{10} = \frac{3}{10}$	$\frac{4}{7} + \frac{3}{7} = 1$	$\frac{5}{9} - \frac{1}{3} = \frac{5}{9} - \frac{3}{9} = \frac{2}{9}$	$\frac{5}{8} + \frac{3}{8} = 1$	$\frac{5}{6} - \frac{1}{2} = \frac{5}{6} - \frac{3}{6} = \frac{2}{6} = \frac{1}{3}$	$\frac{3}{4} + \frac{1}{8} = \frac{6}{8} + \frac{1}{8} = \frac{7}{8}$	$\frac{1}{2} - \frac{3}{10} = \frac{5}{10} - \frac{3}{10} = \frac{2}{10} = \frac{1}{5}$	$\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$	$\frac{3}{4} - \frac{2}{3} = \frac{9}{12} - \frac{8}{12} = \frac{1}{12}$	
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6	<p>Kijk goed en los op.</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; border-right: 1px solid black; padding: 5px;">  </td> <td style="width: 33%; border-right: 1px solid black; padding: 5px;"> $2 \times \frac{3}{8} = \frac{6}{8} = \frac{3}{4}$ </td> <td style="width: 33%; padding: 5px;"> $4 \times \frac{1}{6} = \frac{4}{6} = \frac{2}{3}$ </td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">  </td> <td style="border-right: 1px solid black; padding: 5px;"> $\frac{6}{10} : 3 = \frac{2}{10} = \frac{1}{5}$ </td> <td style="padding: 5px;"> $\frac{4}{9} : 2 = \frac{2}{9}$ </td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;"></td> <td style="border-right: 1px solid black; padding: 5px;"></td> <td style="padding: 5px;"> $5 \times \frac{3}{10} = \frac{15}{10} = \frac{3}{2}$ </td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;"></td> <td style="border-right: 1px solid black; padding: 5px;"></td> <td style="padding: 5px;"> $\frac{3}{5} : 2 = \frac{3}{10}$ </td> </tr> </table>		$2 \times \frac{3}{8} = \frac{6}{8} = \frac{3}{4}$	$4 \times \frac{1}{6} = \frac{4}{6} = \frac{2}{3}$		$\frac{6}{10} : 3 = \frac{2}{10} = \frac{1}{5}$	$\frac{4}{9} : 2 = \frac{2}{9}$			$5 \times \frac{3}{10} = \frac{15}{10} = \frac{3}{2}$			$\frac{3}{5} : 2 = \frac{3}{10}$	
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7	<p>Kijk, vul aan en los op.</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; border-right: 1px solid black; padding: 5px;">  </td> <td style="padding: 5px;"> $23\% = 23$ van de 100 = 23 per 100 = 23 ten 100 </td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;"></td> <td style="padding: 5px;"> $23\% \text{ van } 100 = 23$ </td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;"></td> <td style="padding: 5px;"> $23\% \text{ van } 200 = 2 \times 23 = 46$ </td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;"></td> <td style="padding: 5px;"> $23\% \text{ van } 500 = 5 \times 23 = 115$ </td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;"></td> <td style="padding: 5px;"> $23\% \text{ van } 1000 = 230$ </td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;"></td> <td style="padding: 5px;"> $23\% \text{ van } 1100 = 230 + 23 = 253$ </td> </tr> </table>		$23\% = 23$ van de 100 = 23 per 100 = 23 ten 100		$23\% \text{ van } 100 = 23$		$23\% \text{ van } 200 = 2 \times 23 = 46$		$23\% \text{ van } 500 = 5 \times 23 = 115$		$23\% \text{ van } 1000 = 230$		$23\% \text{ van } 1100 = 230 + 23 = 253$	
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Bewerkingen - Hoofdrekenen		naam _____
8	<p>Los op.</p> <p>50% van 400 = <u>200</u></p> <p>50% van 250 = <u>125</u></p> <p>20% van 300 = <u>60</u></p> <p>10% van 1500 = <u>150</u></p> <p>25% van 600 = <u>150</u></p> <p>90% van 1500 = <u>1500 - 150 = 1350</u></p>	<p>3% van 700 = <u>3 x 7 = 21</u></p> <p>12% van 500 = <u>5 x 12 = 60</u></p> <p>25% van 8 = <u>2</u></p> <p>50% van 7 = <u>3,5</u></p> <p>10% van 2,4 = <u>0,24</u></p> <p>99% van 4 = <u>4 - 0,04 = 3,96</u></p>
9	<p>Schat. Gebruik daarbij ronde getallen!</p> <p><i>bv.</i> 398 + 205 Ik schat: <u>400 + 200 → ± 600</u></p> <p>8014 + 3992 Ik schat: <u>8000 + 4000 → > 12 000</u></p> <p>97,8 - 49,45 Ik schat: <u>100 - 50 → < 50</u></p> <p>6002 - 2987 Ik schat: <u>6000 - 3000 → > 3000</u></p>	
10	<p>Lees en los op.</p> <p>Leon krijgt van zijn tante 9% van 400 euro. Abdel krijgt van zijn oom $\frac{4}{5}$ van 40 euro.</p> <p>V Hoeveel krijgen ze elk?</p> <p>B</p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p><u>9% van 400 = 4 x 9 = 36</u></p> <p><u>$\frac{4}{5}$ van 40 = 4 x 8 = 32</u></p> </div> <p>A <u>Leon krijgt 36 euro en Abdel krijgt 32 euro.</u> OK</p>	