

SENTRUM VIR



Syferkunde

OPVOEDKUNDIGE

Wiskunde



STUDIES (EDMS) Bpk

Leierskap

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Hersiening

Inoefening

Vaslegging

Graad 7 – Kwartaal 1 – Werkopdrag 2 – 2024

MEMORANDUM

Afdeling A – Finansiële Wiskunde

1.1 Oop getalsin:  $x = R15\ 699 - R14\ 799$

$$\begin{array}{r} 15\ 699 \\ - 14\ 799 \\ \hline 900 \end{array}$$

Kontantafslag is R900

(3)

1.2.1 Oop getalsin  $x = \frac{\text{Bedrag} \times \text{Rentekoers} \times \text{Tydperk}}{100}$

$$\begin{aligned} &= \frac{7000 \times 10 \times 1}{100} \\ &= \frac{70000}{100} \\ &= 700 \end{aligned}$$

Enkelvoudige rente is R700

(3)

1.2.2 Oop getalsin:  $R7\ 000 + R700 = x$

Totale bedrag wat terugbetaal moet word is R7 700

(3)

2.1 Oop getalsin:  $a = R500 - R435$

$$= R65$$

Wins is R65

(2)

2.2 Oop getalsin:  $b = R15\ 999 - R12\ 700$

$$\begin{array}{r} 15\ 999 \\ - 12\ 700 \\ \hline 3\ 299 \end{array}$$

Verlies is R3 299

(2)

3.1

Spoed [km/h]	x Tyd [h]	= Afstand [km]
25	2	50 km
90	4	360 km
120	6	720 km
Spoed [km/h]	x Tyd [h]	= Afstand [km]
40	3 h	120
80	5 h	400
110	6 h	660
Spoed [km/h]	x Tyd [h]	= Afstand [km]
80 km/h	5	400
50 km/h	12	600
90 km/h	9	810

(9)

2.

3.2 Formule:  $Spoeed = \frac{Afstand}{Tyd}$

$$Spoeed = \frac{546}{6}$$

$$Spoeed = 91\text{km/h} \quad (3)$$

3.3 Formule:  $Tyd = \frac{Afstand}{Spoeed}$

$$Tyd = \frac{810}{90}$$

$$Tyd = 9 \text{ uur} \quad (3)$$

3.4  $Afstand = Spoeed \times Tyd$        $3 \text{ m/s} \times 60 \text{ s} = 180 \text{ m/min}$   
 $= 180 \times 20$   
 $= 3600 \text{ m}$

$$Afstand = 3600 \text{ m of } 3,6 \text{ km} \quad (3)$$

### Afdeling B – Gewone Breuke

1.1  $\frac{4}{5} = \frac{8}{10} = \frac{80}{100}$

2.2  $\frac{5}{9} = \frac{15}{27} = \frac{30}{54}$

1.3  $\frac{3}{4} = \frac{9}{12} = \frac{36}{48}$

1.4  $\frac{7}{3} = \frac{14}{6} = \frac{70}{30}$

1.5  $\frac{10}{100} = \frac{1}{10} = \frac{100}{1000}$

1.6  $\frac{8}{7} = \frac{24}{21} = \frac{72}{63} \quad (12)$

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

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

2.1.3  $\frac{4}{10} = \frac{2}{5}$

2.1.4  $\frac{3}{5} < \frac{8}{10}$

2.1.5  $\frac{1}{10} > \frac{1}{100}$

2.1.6  $\frac{7}{3} > 3$

2.1.7  $\frac{23}{50} = \frac{46}{100}$

2.1.8  $\frac{3}{2} < \frac{5}{3} \quad (8)$

2.2 KGV is 24       $\frac{3}{4}, \frac{3}{6}, \frac{5}{8}, \frac{2}{3} \rightarrow$   
 Dalende volgorde is  $\frac{3}{4}, \frac{2}{3}, \frac{5}{8}, \frac{3}{6}$

$\frac{18}{24}, \frac{12}{24}, \frac{15}{24}, \frac{16}{24} \quad (2)$

3.1  $\frac{4}{3} = 1\frac{1}{3}$     3.2  $\frac{9}{5} = 1\frac{4}{5}$     3.3  $\frac{14}{8} = 1\frac{3}{4}$     3.4  $\frac{19}{12} = 1\frac{7}{12}$     3.5  $\frac{31}{15} = 2\frac{1}{15} \quad (5)$

4.1  $1\frac{3}{4} = \frac{7}{4}$     4.2  $1\frac{4}{5} = \frac{9}{5}$     4.3  $2\frac{7}{8} = \frac{23}{8}$     4.4  $3\frac{8}{12} = \frac{44}{12} \quad (4)$

5.1  $\frac{4}{16} = \frac{1}{4}$     5.2  $\frac{5}{20} = \frac{1}{4}$     5.3  $\frac{7}{35} = \frac{1}{5}$     5.4  $\frac{8}{64} = \frac{1}{8} \quad (4)$

6.1  $3\frac{1}{2} + 4\frac{5}{8} = 3\frac{4}{8} + 4\frac{5}{8} = 7\frac{9}{8} = 8\frac{1}{8} \quad (3)$

### 3.

$$6.2 \quad 8\frac{2}{3} - 3\frac{1}{4} = 8\frac{8}{12} - 3\frac{3}{12} = 5\frac{5}{12} \quad (3)$$

$$6.3 \quad 4\frac{1}{2} + 2\frac{3}{4} - 3\frac{2}{6} = 4\frac{6}{12} + 2\frac{9}{12} - 3\frac{4}{12} = 3\frac{11}{12} \quad (4)$$

$$6.4 \quad 8\frac{7}{8} - 3\frac{1}{2} + 2\frac{1}{6} = 8\frac{21}{24} - 3\frac{12}{24} + 2\frac{4}{24} = 7\frac{13}{24} \quad (4)$$

$$7.1.1 \quad \frac{4}{5} \text{ van } 60 = \frac{4}{5} \times \frac{60}{1} = \frac{240}{5} = 48 \quad (3)$$

$$7.1.2 \quad \frac{2}{3} \text{ van } 36 = \frac{2}{3} \times \frac{36}{1} = \frac{72}{3} = 24 \quad (3)$$

$$7.1.3 \quad \frac{6}{9} \text{ van } 81 = \frac{6}{9} \times \frac{81}{1} = \frac{486}{9} = 54 \quad (3)$$

$$7.1.4 \quad 2\frac{4}{5} \text{ van } 40 = \frac{14}{5} \times \frac{40}{1} = \frac{560}{5} = 112 \quad (3)$$

$$7.1.5 \quad 3\frac{1}{4} \text{ van } 20 = \frac{13}{4} \times \frac{20}{1} = \frac{260}{4} = 65 \quad (3)$$

$$7.1.6 \quad \frac{3}{5} \text{ van } \frac{1}{2} = \frac{3}{5} \times \frac{1}{2} = \frac{3}{10} \quad (2)$$

$$7.1.7 \quad \frac{7}{6} \text{ van } \frac{2}{3} = \frac{7}{6} \times \frac{2}{3} = \frac{14}{18} = \frac{7}{9} \quad (3)$$

$$7.1.8 \quad 1\frac{2}{5} \text{ van } \frac{1}{4} = \frac{7}{5} \times \frac{1}{4} = \frac{7}{20} \quad (2)$$

$$7.2.1 \quad \frac{4}{5} \times \frac{20}{100} = \frac{80}{100} = 80\% \quad 7.2.2 \quad \frac{3}{10} \times \frac{10}{100} = \frac{30}{100} = 30\% \quad (6)$$

$$7.2.3 \quad \frac{34}{40} \div \frac{2}{2} = \frac{17}{20} \times \frac{5}{5} = \frac{85}{100} = 85\% \quad 7.2.4 \quad \frac{12}{30} \div \frac{3}{3} = \frac{4}{10} \times \frac{10}{100} = \frac{40}{100} = 40\% \quad (10)$$

$$7.3.1 \quad 5\% \text{ van } 50 = \frac{5}{100} \times \frac{50}{1} = \frac{250}{100} = 2,5 \quad (3)$$

$$7.3.2 \quad 25\% \text{ van } 60 = \frac{25}{100} \times \frac{60}{1} = \frac{1500}{100} = 15 \quad (3)$$

$$7.3.3 \quad 50\% \text{ van } 150 = \frac{50}{100} \times \frac{150}{1} = \frac{7500}{100} = 75 \quad (3)$$

$$7.3.4 \quad 80\% \text{ van } 200 = \frac{80}{100} \times \frac{200}{1} = \frac{16000}{100} = 160 \quad (3)$$

$$7.4 \quad \frac{3}{5} = \mathbf{R12} \quad \therefore \frac{1}{5} = \frac{12}{3} = \mathbf{R4} \quad \therefore \frac{5}{5} = 5 \times 4 = \mathbf{R20} \quad (5)$$

$$7.5.1 \quad \frac{3}{7} \text{ van } 49 \text{ albasters} = x \quad \frac{3}{7} \times \frac{49}{1} = \frac{147}{7} = 21 \quad \text{Hy verloor 21 albasters} \quad (5)$$

4.

$$7.5.2 \quad 49 - 21 = y \quad 49 - 21 = 28 \quad \text{Hy het 28 albasters oor} \quad (2)$$

$$7.6.1 \quad \frac{5}{30} = \frac{1}{6} \quad 7.6.2 \quad \frac{5}{6} \quad (2)$$

### Afdeling C – Desimale breuke

#### 1. Lees die volgende getalle hardop:

398,3      2 607,82      34 729,765      673 912,048

$$2.1 \text{ In breukvorm: } 0,345 = 0 + \frac{3}{10} + \frac{4}{100} + \frac{5}{1000} \quad (1)$$

$$2.2 \text{ In desimale vorm: } 4,789 = 4 + 0,7 + 0,08 + 0,009 \quad (1)$$

$$\begin{array}{lll} 3.1 & 12 & 3.2 & 8 & 3.3 & 3,46 \\ 3.4 & 23,09 & 3.5 & 5,614 & 3.6 & 17,109 \end{array} \quad (6)$$

$$\begin{array}{ll} 4.1 & 4,701 < 4,71 & 4.2 & 2,101 > 2,011 \\ 4.3 & 4,12 = 4,120 & 4.4 & 7,11 = 7,110 \end{array} \quad (4)$$

$$5. \quad 7,34; 7,11; 7,1; 7,043; 7,011; 0,701 \quad (1)$$

$$6.1.1 \quad \frac{3}{4} = 0,75 \quad 6.1.2 \quad \frac{4}{5} = 0,8$$

$$6.1.3 \quad \frac{32}{40} = 0,8 \quad 6.1.4 \quad \frac{18}{30} = 0,6 \quad (4)$$

$$6.2.1 \quad 0,28 = \frac{28}{100} = \frac{14}{50} = \frac{7}{25} \quad 6.2.2 \quad 0,06 = \frac{6}{100} = \frac{3}{50}$$

$$6.2.3 \quad 0,498 = \frac{498}{1000} = \frac{249}{500} \quad 6.2.4 \quad 0,5 = \frac{5}{10} = \frac{1}{2} \quad (4)$$

$$7.1 \quad 23,235 + 8,35 - 17,864 = 13,721 \quad (3)$$

$$7.2 \quad 64,123 - 45,65 + 51,073 = 69,546 \quad (3)$$

$$8.1 \quad 43,456 \times 9 = 391,104 \quad (1)$$

$$8.2 \quad 0,123 \times 27 = 3,321 \quad (3)$$

$$8.3 \quad 10,602 \quad 8.4 \quad 0,0123 \quad (6)$$

$$8.5 \quad 87,04 \times 10 = 870,4 \quad 8.6 \quad 94,348 \times 100 = 9\,434,8 \quad (2)$$

$$8.7 \quad 1,652 \times 1\,000 = 1\,652 \text{ of } 1\,652,0 \quad 8.8 \quad 6,38 \div 10 = 0,638 \quad (2)$$

$$8.9 \quad 93,07 \div 100 = 0,9307 \quad 8.10 \quad 560,34 \div 1\,000 = 0,56034 \quad (2)$$