

SENTRUM VIR



Syferkunde

OPVOEDKUNDIGE

Wiskunde

STUDIES (EDMS) Bpk

Leierskap

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MEMORANDUM

Graad 7 – Getalle, bewerkings en verwantskappe Inleidende lesing oor telgetalle

1.1 9 000 (1)

1.2 Honderde of H (1)

1.3 1 783 (1)

1.4 $20\ 000 + 5\ 000 + 700 + 80 + 4$ (1)

1.5 206; 506; 602; 605; 620; 650 (1)

1.6

	Naaste 5	Naaste 100	Naaste 1 000
1 367	1 365	1 400	1 000
27 398	27 400	27 400	27 000
543 146	543 145	543 100	543 000

(9)

2.1 29 (1)

2.2 18 (1)

2.3 25 (1)

2.4 9 (1)

2.5 35 (1)

2.6 19 (1)

3.1 33 (1)

3.2 4 (1)

2.

- 3.3 133 (1)
- 3.5 12 (1)
- 3.6 12 (1)
- 3.7 52 590 $52\ 590 - 9\ 384 = 43\ 206$ OF $52\ 590 - 43\ 206 = 9\ 384$ (2)
- 3.8 3 476 $8\ 997 + 3\ 476 = 12\ 473$ OF $3\ 473 + 8\ 997 = 12\ 473$ (2)
- 3.9 37 res 3 $23 \times 37 = 851$ EN $851 + 3 = 854$ (2)
- 3.10 131 355 $131\ 355 \div 2\ 085 = 63$ OF $131\ 355 \div 63 = 2\ 085$ (2)
- 4.1 94 4.2 519
- 4.3 0 4.4 0
- 4.5 68 – 4.6 829
- 4.7 0 4.8 ongedefinieerd
- 4.9 0 4.10 ongedefinieerd (10)
- 5.1 55 [Bereken van links na regs] (1)
- 5.2 37 [Eers die hakie, dan die res] $25 - 22 + 34$ (1)
- 5.3 144 [Bereken van links na regs] (1)
- 5.4 144 [Eers die hakie, dan die res] $9 \times 4 \times 4$ (1)
- 5.5 9 [Eers die hakie, dan die res] $9 \times 12 \div 12$ (1)
- 5.6 12 [Eers hakies, dan deel] $144 \div 12$ (1)
- 5.7 0 [Enige getal x 0 is altyd 0] (1)
- 5.8 14 [Eers ÷ en x en dan die res] (1)
- 6.1 34; 8; 64; 28; 26; 10; 4 (1)
- 6.2 16; 24; 28 (1)
- 6.3 1; 2; 4; 8; 16; 32 (1)

3.

6.4 2 en 3 (1)

6.5 1; 4; 9; 16; 25; 36; 49 (1)

6.6 1; 8; 27; 64 (1)

7.1 KGV is 14 GGF is 1 (2)

7.2 KGV is 65 GGF is 1 (2)

7.3 KGV is 12 GGF is 6 (2)

7.4 KGV is 36 GGF is 6 (2)

7.5 KGV is 36 GGF is 9 (2)

8.1.1 1 : 3 (1)

8.1.2 1 : 2 : 4 (1)

8.1.3 1 : 20 (1)

8.1.4 4 : 3 (1)

8.2 $5 + 7 = 12$ Ek kry $\frac{5}{12}$ en my sussie kry $\frac{7}{12}$ ✓

$$\frac{5}{12} \times \frac{1560}{1} \quad 1560 \div 12 = 130 \quad \text{EN} \quad 130 \times 5 = R650 \quad \checkmark$$

$$R650 + R910 = R1560$$

$$\frac{7}{12} \times \frac{1560}{1} \quad 1560 \div 12 = 130 \quad \text{EN} \quad 130 \times 7 = R910 \quad \checkmark$$

∴ Ek kry R650 en my sussie kry R910 ✓ (4)

8.3 $22 : 88 \rightarrow 1 : 4$ (2)

8.4 $3 + 4 + 5 = 12$ ✓ Petrus wen $\frac{3}{12}$ Riaan wen $\frac{4}{12}$ Johan wen $\frac{5}{12}$ ✓

Die prysgeld is R300

$$\text{Petrus wen } \frac{3}{12} \times \frac{300}{1} \quad 300 \div 12 = 25 \quad \text{EN} \quad 25 \times 3 = R75 \quad \checkmark$$

$$\text{Riaan wen } \frac{4}{12} \times \frac{300}{1} \quad 300 \div 12 = 25 \quad \text{EN} \quad 25 \times 4 = R100 \quad \checkmark$$

$$\text{Johan wen } \frac{5}{12} \times \frac{300}{1} \quad 300 \div 12 = 25 \quad \text{EN} \quad 25 \times 5 = R125 \quad \checkmark \quad (5)$$

4.

8.5.1 $R25,60 \div 8 = R3,20$ $\checkmark\checkmark$ (2)

8.5.2 $R3,20 \times 12 = R38,40$ $\checkmark\checkmark$ (2)

8.6 3 cm in 2 weke $\rightarrow 1\frac{1}{2}$ cm in 1 week OF 1 cm en 5 mm in 1 week

$\therefore 1\frac{1}{2} \times 9 = (1 \times 9) + (\frac{1}{2} \times 9) = 9 + 4\frac{1}{2} = 13\frac{1}{2}$ cm groei in 9 weke $\checkmark\checkmark$ (2)

8.7 24 uit 30 = $\frac{24}{30}$ vereenvoudig is $\frac{8}{10}$ of 80% \checkmark

40 uit 50 = $\frac{40}{50}$ vereenvoudig is $\frac{8}{10}$ of 80% \checkmark

Beide leerders presteer ewe goed \checkmark (3)

8.8.1 $80 \text{ km/h} \times 5 = 400 \text{ km}$ $\checkmark\checkmark$ (2)

8.8.2 $1120 \text{ km} \div 80 = 14 \text{ uur}$ $\checkmark\checkmark$ (2)