



In samewerking met Oupa Wiskunde

Syferkunde : Wiskunde : Leierskap

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Graad 7 – Kwartaal 4 – Algebra – Oefenvraestel 1 – November 2026

MEMORANDUM

- 1.1 90 000
1.2 H/Honderde
1.3 1 783
1.4 3 000 000 + 600 000 + 20 000 + 5 000 + 700 + 80 + 4
1.5 206; 506; 602; 605; 620; 650 (5)

1.6

	Naaste 5	Naaste 100	Naaste 1 000
543 146	543 145	543 100	543 000

- 2.1 $25 - (13 + 9) + 34 = 25 - 22 + 34$
= 37 (3)
2.2 $9 \times 12 \div (3 \times 4) = 9 \times 12 \div 12$
= $108 \div 12 = 9$ (2)
2.3 $1 + 2 \times 3 + 4 \times 5 + (6 \times 0) = 1 + 6 + 20 + 0$
= 27 (2)

- 3.1 $48 \div 12 + 19 = 4 + 19 = 23$ (2)
3.2 $(97 + 35) \div 4 + 6 = 132 \div 4 + 6 = 33 + 6 = 39$ (3)
3.3 $16 \times (19 + 21) \div 8 = 16 \times 40 \div 8 = 640 \div 8 = 80$ (3)

- 4.1 $V_9 = \{9; 18; 27; 36\}$
4.2 $F_{36} = \{1; 2; 3; 4; 6; 9; 12; 18; 36\}$ (2)

5. 6 en 12
 $V_6 = \{6; 12; 18; 24\}$
 $V_{12} = \{12; 24\}$
KGV = 12 (3)

6. 24, 36 en 48
 $F_{24} = \{1; 2; 3; 4; 6; 8; 12; 24\}$
 $F_{36} = \{1; 2; 3; 4; 6; 9; 12; 18; 36\}$
 $F_{48} = \{1; 2; 3; 4; 6; 8; 12; 16; 24; 48\}$
GGD = 12 (4)

7. 2 144
2 | 72
2 | 36
2 | 18
3 | 9
3 | 3
1
 $2 \times 2 \times 2 \times 2 \times 3 \times 3 = 2^4 \times 3^2$ (7)

- 8.1 $20 : 30 = 2 : 3$
8.2 $24 : 60 : 84 = 2 : 5 : 7$ (2)

- 9.1 Oop getalsin
Bewerking
Antwoord
 $(R36 \div 3) \times 7 = x$
 $(36 \div 3) \times 7 = x$
 $12 \times 7 = x$
 $x = R84$ (4)

9.2 Oop getalsin	$96 \text{ km/h} \times 2 \text{ uur} = a$	
Bewerking	$96 \times 2 = 192$	
Antwoord	Afstand $a = 192 \text{ km}$	(3)

Oop getalsin	$192 \text{ km} \div 3 \text{ uur} = b$	
Bewerking	$192 \div 3 = b$	
Antwoord	Konstante spoed $b = 62 \text{ km/h}$	(3)

10.1 $3 \times 3 \times 3 \times 3 \times 3 = 243$	10.2 $n \times n \times n \times n = n^4$	(2)
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11.1 $\sqrt{196} = 14$	11.2 $\sqrt[3]{8} = 2$	
11.3 $\sqrt[3]{1000} = 10$	11.4 $\sqrt{900} = 30$	(4)

12.1 $5^2 = 25$	12.2 $7^0 = 1$	
12.3 $8^2 \div 4^2 = 64 \div 16 = 4$	12.4 $10^3 - 2^3 \times 4^2 = 1\,000 - 8 \times 16 = 872$	(2)

13.1 $3^4 \div 3^3 + \sqrt[3]{8} = 81 \div 27 + 2 = 3 + 2 = 5$	(1)
13.2 $10^3 - 10^2 = 1\,000 - 100 = 900$	(1)

14.1 $\sqrt{25 - 16} = \sqrt{9} = 3$	14.2 $\sqrt{25} - \sqrt{16} = 5 - 4 = 1$	
14.3 $\sqrt{125 - 100} = \sqrt{25} = 5$	14.4 $\sqrt{121} - \sqrt{100} = 11 - 10 = 1$	(4)

15.1 $(\sqrt[3]{12})^3 = 12$	(1)
15.2 $2\sqrt{9} + 4^2 = 2 \times 3 + 16 = 22$	(2)
15.3 $\sqrt{25 + 11} - (\sqrt[3]{4})^3 = \sqrt{36} - 4 = 6 - 4 = 2$	(2)
15.4 $3^2 - \sqrt[3]{27} + 12^2 = 9 - 3 + 144 = 147$	(2)

16.1 $\frac{19}{12} = 1 \frac{7}{12}$	16.2 $\frac{31}{15} = 2 \frac{1}{15}$	(2)
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17.1 $2 \frac{7}{8} = \frac{23}{8}$	17.2 $3 \frac{8}{12} = \frac{44}{12}$	(2)
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18.1 $\frac{24}{88} = \frac{3}{11}$	18.2 $\frac{15}{90} = \frac{1}{6}$	(2)
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19.1 $\frac{7}{3} = \frac{14}{6} = \frac{70}{30}$	19.2 $\frac{5}{9} = \frac{15}{27} = \frac{30}{54}$	
19.3 $\frac{10}{100} = \frac{1}{10} = \frac{100}{1000}$	19.4 $\frac{8}{7} = \frac{24}{21} = \frac{72}{63}$	(8)

20.1 Oop getalsin	$\frac{3}{5} = R27 \therefore \frac{1}{5} = R27 \div 3 = x$	
Bewerkings	$\frac{1}{5} = 27 \div 3 = 9$	
	$9 \times 5 = 45$	
Antwoord	$\therefore$ Die totale bedrag van $\frac{5}{5} = R45$	(4)

20.2.1 $\frac{5}{30} = \frac{1}{6}$ van die klas was afwesig.	(1)
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20.2.2 $\frac{5}{6}$ van die klas was aanwesig.	(1)
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20.2.3 Oop getalsin	$\frac{15}{15} - \frac{8}{15} = y$	
Bewerking	$\frac{15}{15} - \frac{8}{15} = \frac{7}{15}$	
Antwoord	$\frac{7}{15}$ van die leerders is dogters.	(3)

$$20.2.4 \frac{7}{15} \text{ van } 30 = 30 \div 15 = 2 \text{ en } 2 \times 7 = 14 \text{ leerders is dogters.} \quad (2)$$

20.3 Oop getalsin	$\frac{25}{100}$ van R600 = a	
Bewerkings	$\frac{25}{100}$ van 600	
	$600 \div 100 = 6$ en $6 \times 25 = 150$	
	$600 - 150 = 450$	
Antwoord	Ek sal R450 betaal.	(4)

20.4 Oop getalsin	30% van 50 albasters is $\frac{3}{10}$ van 50 = b OF $\frac{7}{10}$ van 50 = x	
Bewerkings	$\frac{3}{10}$ van 50 = b	
	$50 \div 10 = 5$ en $5 \times 7 = 35$	
	$50 \div 10 = 5$ en $5 \times 3 = 15$	
	$50 - 15 = 35$	
Antwoord	Ek het 35 albasters oor.	(4)

21.1 $\frac{375}{100} = 3,75$	21.2 $\frac{497}{1000} = 0,497$	(2)
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22.1 $0,6 = \frac{6}{10} = \frac{3}{5}$	22.2 $0,05 = \frac{5}{100} = \frac{1}{10}$	
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22.3 $2,125 = 2\frac{1}{8}$		(3)
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23.1 $6,9 = \frac{69}{10}$	23.2 $4,48 = \frac{448}{100}$	(2)
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24.1 $0,8 + 4,09 + 8,264 = 13,154$	24.2 $29,35 - 18,974 = 10,376$	(2)
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24.3 $7,43 \times 35 = 260,05$		(3)
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24.4 $45,720 \div 36 = 1,27$		(4)
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25.1 Oop getalsin	$R18,50 \times 40,25 \text{ liter} = x$	
Bewerkings	$18,50 \times 40,25$	
	$= 774,625$	
Antwoord	Die volle bedrag is R774,63.	(5)

25.2 Oop getalsin	$17 \text{ m} \div 4 = y$	
Bewerkings	$17 \div 4 = 4,25$	
Antwoord	Elke deel is 4,25 m lank.	(3)

26.1 $-15 < 15$	26.2 $21 > -12$	
26.3 $0 > -10$	26.4 $-9 = 3 \times -3$	(4)

27.1 $(-7) + 9 = 2$	27.2 $(-7) + (-9) = -16$	
27.3 $7 - (-9) = 16$	27.4 $-7 - (-9) = 2$	(4)

28.1 $-16 + 15 = -1$	28.2 $-21 - 29 = -50$	
28.3 $36 - (20) = 16$	28.4 $12 \times -9 = -108$	
28.5 $-9 \times -12 = 108$	28.6 $15 \times (-6) = -90$	
28.7 $-90 \div 10 = -9$	28.8 $121 \div -11 = -11$	(8)

29.1 Oop getalsin	$10^\circ\text{C} - (-3^\circ\text{C}) = x$	
Bewerkings	$10 - (-3) = x$	
	$x = 13$	
Antwoord	Temperatuur het met 13°C gestyg.	(4)

29.2 Oop getalsin	$46^\circ\text{C} - (-9^\circ\text{C}) = x$
Bewerkings	$46 - (-9) = x$
	$x = 55$

Antwoord Temperature verskil met 55 °C. (4)

30.1 Bereken die volgende 3 terme: 15; 18; 21 ... (3)

30.2

7	→	x 3	→	21
9	→		→	27
13	→		→	19
24	→		→	72
31	→		→	93
35	→		→	105

(6)

30.3

Term se posisie in die ry	1	2	3	4	5	6	12	19
Term in die ry	3	6	9	12	15	18	36	57

(5)

31.1

Posisie in die ry	1	2	3	7	12
Term	3	4	5	9	14

Reël: $x1 + 2$

(2)

31.2

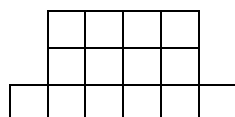
Posisie in die ry	1	2	3	7	12
Term	3	7	11	27	47

Reël: $x4 - 1$

(2)

32.1 Elke patroon vermeerder met 3 blokkies. (1)

32.2



(1)

32.3 $x3 + 2$ (2)

32.4

Patroon	1	2	3	4	9	15	33
Kolletjies	5	8	11	14	29	47	101

(4)

33.1 $15 - 30 + n = 75 - 15$

$$n = 75 - 15 - 15 + 30$$

$$n = 45 + 30$$

$$n = 75$$

(3)

33.2 $20 + 2 = -n + 9 + 5$

$$22 = -n + 14$$

$$22 - 14 = -n$$

$$n = -8$$

(3)

34.1 as $y = 9$

$$x = 4 \times y - 3$$

$$x = 4 \times 9 - 3$$

$$x = 36 - 3$$

$$x = 33$$

(3)

34.2 as $18 + x = 30 - 5x + 6$

$$18 + x = 36 - 5x$$

$$x + 5x = 36 - 18$$

$$6x = 18$$
$$x = 3$$

(4)