Wiskunde Graad 6

Sentrum vir Opvoedkundige Studies (EDMS) Bpk ©

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Jou toekoms is belangrik!!!

MEMORANDUM

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Afdeling A

1.1 5 371 **1.2** 40 968
1.3 6 427 538 **1.4** 650 410
1.5 22 916 **1.6** 3 432 769 **(6)**

2. Daar kan meer kombinasies wees!!!

6	10	8
10	8	6
8	6	10

(6)

3.1 10 000 + 6 000 + 700 + 80 + 3
3.2 70 000 + 5 000 + 0 + 90 + 3
3.3 100 000 + 90 000 + 8 000 + 700 + 40 + 3
3.4 500 000 + 80 000 + 6 000 + 900 + 0 + 3
3.5 3 000 000 + 700 000 + 80 000 + 2 000 + 500 + 60 + 0
3.6 50 000 000 + 3 000 000 + 700 000 + 20 000 + 6 000 + 400 + 90 + 3 **(6)**

4.1 854 210 **4.2** 102 458 **(2)**
4.3 854 210 + 102 458 = 956 668 **4.4** 854 210 – 102 458 = 751 752 **(4)**

5.1 70 000 000 **5.2** Honderde/H
5.3 4 000 000 **5.4** Honderd miljoen/HM **(4)**

6. **(12)**

Getal	Naaste 5	Naaste 10	Naaste 100	Naaste 1 000
43 766	43 765	43 770	43 800	44 000
135 046	135 045	135 050	135 000	135 000
3 098 245	3 098 245	3 098 250	3 098 200	3 098 000

7. 936 947; 693 947; 639 947; 396 947; 369 947 **(1)**

8. 347 286; 374 286; 734 286; 734 682; 734 862 **(1)**

Afdeling B

1. Patroon is → Boonste getal x linkerkantste getal + regterkantste getal
   7 x 5 = 35 35 + 9 = 44 (2)

2.1 100 2.2 26
2.3 32 2.4 25
2.5 136 2.6 3 (6)

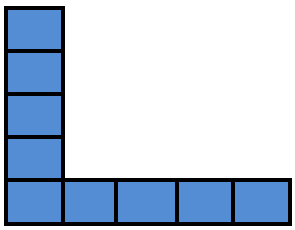
3.1 9 3.2 6
3.3 26 3.4 36 (4)

4.1 6 4.2 11
4.3 49 4.4 1 (4)

5.1 20; 24; 28 → patroon is + 4 (2)
5.2 31; 38; 45 → patroon is + 7 (2)
5.3 25; 36; 49 → patroon is getal x homself [vierkantsgetalle] (2)

6.1

Ry en Kolom moet elk 5 vierkante wees



(1)

6.2

Diagram	1	2	3	4	6	9	
Vierkante	3	5	7	9 √			33

(1)

6.3 Die reël is (x 2 + 1) √

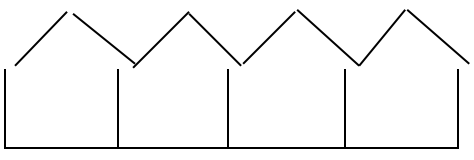
Diagram	1	2	3	4	6	9	16
Vierkante					13 √	19 √	33

(3)

6.4 Doen die inverse van die reël → 33 – 1 = 32 √ en 32 ÷ 2 = 16 √
Diagramnommer is 16 (2)

7.1 Elke diagram kry 1 huisie (vyfhoek) by (1)

7.2



(1)

7.3

Diagram	1	2	3	4	9	12	
Vuurhoutjies	5	9	13	17 √			57

(1)

7.4 Die reël is (x 4 + 1) √

Diagram	1	2	3	4	9	12	14
Vuurhoutjies					37 √	49 √	57

(3)

7.5 Doen die inverse van die reël → 57 – 1 = 56 √ en 56 ÷ 4 = 14 √
Diagramnommer is 14 (2)

Afdeling C

1.1 V_6 = {42; 48; 54; 60; 66; 72} (1)

1.2 V_8 = {32; 40; 48; 56; 64} (1)

1.3 F_{35} = {1; 5; 7; 35} (1)

1.4 F_{42} = {1; 2; 3; 6; 7; 14; 21; 42} (1)

2. Priemgetalle = {2; 3; 5; 7; 11; 13} (1)

3.1 Skryf al die faktore neer → F_{18} = {1; 2; 3; 6; 9; 18} √
Priemfaktore van 18 is 2 en 3 √ (2)

3.2 Skryf al die faktore neer → F_{32} = {1; 2; 4; 8; 16; 32} √
Priemfaktor van 32 is 2 √ (2)

Afdeling D

1.1 779 142 √√ 1.2 86 492 √√ (4)

1.3
6842
x 213
20526 √
68420 √
1368400 √
1457346 √ (4)

1.4
240 res 3 √
36 $\sqrt{8643}$
72 √
144
144√
03
00 √
3 (4)

1.5 24956
x 98
199648 √
2246040 √
2445688 √ (3)

1.6 415 res 11 √
25 √10386
100 √
38
25 √
136
125 √
11 (4)

2.1 597 035 – 205 758 √ = 391 277 √ (2)

2.2 70 000 – 34 589 = □ √
70 000 – 34 589 = 35 411 kaartjies nog beskikbaar √ (2)

2.3 R2 500 x 12 = □ √
R2 500 x 12 = R30 000 in een jaar √ (2)

2.4 4 000 – (2 821 + 794) = □ √√
4 000 – 3 615 = □ √
4 000 – 3 615 = 385 √ (4)

2.5 24 699 + 24 701 = □ √
24 699 + 24 701 = 49 400 √ (2)

2.6 25 km x 31 dae = □ √
25
x 31
25 √
750 √
775 km in 31 dae √ (4)

2.7 2 250 eiers x 21 = □ √
2250
x 21
2250 √
4500 √
6750 eiers in 3 weke √ (4)

Afdeling E

1. $\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$ √√ $\frac{5}{6}$ = 15 albasters ∴ $\frac{1}{6}$ = 3 albasters √

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

$\frac{6}{6}$ = 18 → Kobus het 18 albasters √ (4)

5.

2.1 $\frac{6}{9}$ 2.2 $\frac{18}{24}$

2.3 $\frac{16}{20}$ 2.4 $\frac{6}{8}$

2.5 $\frac{10}{25} = \frac{50}{75}$ 2.6 $\frac{1}{2} = \frac{6}{12}$ (6)

3.1 $\frac{2}{3}$ 3.2 $\frac{6}{13}$

3.3 $\frac{4}{7}$ 3.4 $\frac{7}{9}$ (4)

4. $\frac{5}{6}; \frac{2}{3}; \frac{1}{2}; \frac{7}{8}; \frac{3}{4} \rightarrow \frac{20}{24}; \frac{16}{24}; \frac{12}{24}; \frac{21}{24}; \frac{18}{24}$ √√

$\frac{7}{8}; \frac{5}{6}; \frac{3}{4}; \frac{2}{3}; \frac{1}{2}$ √ (3)

5.1 > 5.2 < 5.3 = 5.4 > (4)

6.

Onegte Breuke	Gemengde Getalle
$\frac{16}{7}$	$2\frac{2}{7}$ √
$\frac{19}{3}$ √	$6\frac{1}{3}$
$\frac{37}{9}$	$4\frac{1}{9}$ √
$\frac{79}{8}$ √	$9\frac{7}{8}$

(4)

7.1 $(3\frac{1}{4} + 2\frac{3}{4}) - 1\frac{2}{4} = 5\frac{4}{4} - 1\frac{2}{4}$ √

$= 4\frac{2}{4}$ √

$= 4\frac{1}{2}$ √ (3)

7.2 $6\frac{2}{8} + (7\frac{3}{8} - 3\frac{1}{8}) = 6\frac{2}{8} + 4\frac{2}{8}$ √

$= 10\frac{4}{8}$ √

$= 10\frac{1}{2}$ √ (3)

7.3 $2\frac{5}{6} - 1\frac{1}{6} = \square$ √ $2\frac{5}{6} - 1\frac{1}{6} = 1\frac{4}{6} = 1\frac{2}{3}$ √ (2)

7.4 $1\frac{3}{7} + 1\frac{5}{7} = \square$ √ $1\frac{3}{7} + 1\frac{5}{7} = 2\frac{8}{7} = 3\frac{1}{8}$ √ (2)

7.5 Die hele sjokolade is $\frac{10}{10}$ √ Santie eet die helfte, nl. $\frac{5}{10}$ √
Die ander helfte van $\frac{5}{10}$ word verdeel vir die 5 maats. Elke maat kry $\frac{1}{10}$ √ (3)

8.1 40 + 6 + 0,8 of $\frac{8}{10}$ 8.2 70 + 2 + 0,8 of $\frac{8}{10}$ + 0,04 of $\frac{4}{100}$

8.3 200 + 10 + 9 + 0,3 of $\frac{3}{10}$ + 0,07 of $\frac{7}{100}$ + 0,005 of $\frac{5}{1000}$

8.4 5 000 + 600 + 70 + 8 + 0,5 of $\frac{5}{10}$ + 0,04 of $\frac{4}{100}$ + 0,003 of $\frac{3}{1000}$ (4)

9.1 0,32; 0,39; 0,46
9.2 6,10; 6,07; 6,04
9.3 24,65; 24,70; 24,75 (3)

10.

Gewone Breuk	Desimale Breuk
$\frac{1}{2}$	0,5 √
$\frac{4}{10}$ of $\frac{2}{5}$ √	0,4
$\frac{3}{4}$	0,75 √
$\frac{3}{8}$ √	0,375
$\frac{3}{5}$	0,6 √
$6\frac{7}{8}$ √	6,875

(6)

11. 0,978; 0,897; 0,798; 0,75; 0,7 (1)
12. 8,12; 8,123, 8,132; 8,213; 8,321 (1)

13.1 > 13.2 <
13.3 = 13.4 >
13.5 < 13.6 = (6)

14.

Getal	Naaste tiende	Naaste honderdste
17,553	17,6	17,55
13,657	13,7	13,66

(4)

7.

15.1 34,150
\+ 8,125 √
42,275 √

15.2 76,30
100,23
\+ 5904,00 √
6080,53 √ **(4)**

15.3 435,010
– 198,746 √
236,264 √

15.4 83,000
– 57,624 √
25,376 √ **(4)**

15.5 20 liter – (10,5l + 4,36l + 3,4l) = □ √
20l – 18,26l √ = 1,74l √
1,74l lemoensap kan sy byvoeg √ **(4)**

15.6 236,438km – 235,654km = □ √
236,438km – 235,654km = 0,784 km/h √ **(2)**

15.7 (R10,50 – R2,10 √) ÷ 2 = □ √
R8,40 ÷ 2 = R4,20 √
Die uitveër kos R4,20 + R2,10 = R6,30 √
Die potlood kos R4,20 √ **(5)**