SENTRUM VIR OPVOEDKUNDIGE STUDIES (EDMS) Bpk
wdtwp572@gmail.com
083 654 1363

Syferkunde
Wiskunde
Leierskap

Hersiening Inoefening Vaslegging

Graad 7 – Kwartaal 2 – Werkopdrag 2 – 2024

Memorandum

Afdeling A – Getalpatrone

1.1	Reël: **+ 3**	1; 4; 7; 10; 13; **16; 19**;	[**konstante verskil**/ratio]	(4)
1.2	Reël: **+ 0,2**	9,2; 9,4; 9,6; 9,8; **10,0; 10,2**;	[**konstante verskil**/ratio]	(4)
1.3	Reël: **x 3**	1; 3; 9; 27; **81; 243**;	[**konstante** verskil/**ratio**]	(4)
1.4	Reël: **– 0,15**	0,95; 0,80; 0,65; **0,50; 0,35**;	[**konstante verskil**/ratio]	(4)
1.5	Reël: $-\frac{1}{4}$	$5\frac{1}{4}$; 5; $4\frac{3}{4}$; $4\frac{1}{2}$; **$4\frac{1}{4}$; 4;**	[**konstante verskil**/ratio]	(4)
1.6	Reël: **÷ 2**	800; 400; 200; 100; **50; 25;**	[**konstante** verskil/**ratio**]	(4)
1.7	Reël: **– 11**	110; 99; 88; 77; **66; 55;**	[**konstante verskil**/ratio]	(4)

2.1	7 m; 6,5 m; 6 m; **5,5 m**; 5 m…	(1)
2.2	**108;** 100; 92; 84; 76…	(1)
2.3	22; 25; 28; **31;** 34…	(1)
2.4	– 7; – 14; – 21; **– 28;** – 35…	(1)
2.5	15; 16; 18; 21; **25;** 30…	(1)
2.6	1; 2; 9; 10; 3; 4; 11; 12; **5;** 6…	(1)
2.7	1; 4; 9; 16; 25; **36;** 49…	(1)

Afdeling B – Vloeidiagramme

1.1

5	→	**x 9**	→	**45**
7	→		→	**63**
9	→		→	**81**
11	→		→	**99**
13	→		→	**117**

(5)

1.2

4	→	**x 6 + 2**	→	**26**
6	→		→	**38**
8	→		→	**50**
10	→		→	**62**
12	→		→	**74**

(5)

2.

1.3

8	→	x 3 – 5	→	19
9	→		→	22
10	→		→	25
11	→		→	28
12	→		→	31

(5)

1.4

5	→	+ $2\frac{1}{2}$	→	$7\frac{1}{2}$
12	→		→	$9\frac{1}{2}$
9	→		→	$11\frac{1}{2}$
16	→		→	$13\frac{1}{2}$
13	→		→	$15\frac{1}{2}$

(5)

Afdeling C – Numeriese patrone

1.1

x		1	2	3	17	24
y	+ 8	9	10	11	25	32

(4)

1.2

x		8	10	12	20	50
y	÷ 2 + 3	7	8	9	13	28

(4)

1.3

x		3	4	5	10	15
y	x 4,5	13,5	18	22,5	45	67,5

(4)

1.4

x		13	14	15	20	27
y	x 3 + 2	41	44	47	62	83

(4)

1.5

x		3	4	5	10	15
y	x $\frac{3}{4}$	$\frac{9}{4}$	$\frac{12}{4}$	$\frac{15}{4}$	$\frac{30}{4}$	$\frac{45}{4}$

(4)

1.6

x		8	12	20	28	48
y	÷ 4 + 3	5	6	8	10	15

(4)

1.7

x		3	4	12	20	27
y	x 3 + 2,5	11,5	14,5	38,5	62,5	83,5

(4)

2.1

Posisie in die ry	1	2	3	9	16
Term	2	4	6	18	32

Reël: x 2

(3)

3.

2.2

Posisie in die ry	1	2	3	7	12
Term	5	8	11	23	38

Reël: x 3 + 2 (3)

2.3

Posisie in die ry	1	2	3	7	12
Term	4	7	10	22	37

Reël: x 3 + 1 (3)

2.4

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

Reël: x 4 – 1 (3)

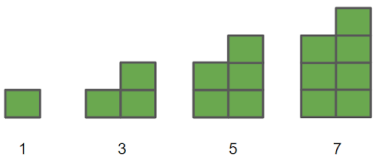
2.5

Posisie in die ry	1	2	3	7	12
Term	1	4	9	49	144

Reël: x^2 (3)

Afdeling D – Geometriese/meetkundige patrone

1.



9 blokkies **11 blokkies**

1.1 Teken die 5de en 6de figure van die patroon langsaan. (2)

1.2 **Elke diagram vermeerder met 2 blokkies [+ 2]** (1)

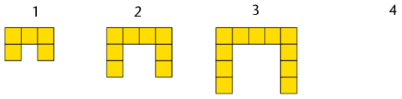
Insetgetal	1	2	3	4	5	6	7	10	14	21
Uitsetgetal	1	3	5	7	9	11	13	19	27	41

1.3 Voltooi die tabel tot by figuur 7. (3)

1.4 Bereken die reël van die patroon. **x 2 – 1** (1)

1.5 Voltooi die res van die patroon. **19; 14; 21** (3)

2.



14 blokkies **17 blokkies**

2.1 Teken die 4de en 5de figure van die patroon langsaan. (2)

2.2 **Elke diagram vermeerder met 3 blokkies [+ 3]** (1)

2.3 Voltooi die tabel tot by figuur 5.

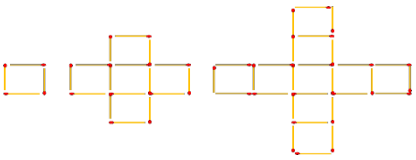
Insetgetal	1	2	3	4	5	8	12	18
Uitsetgetal	5	8	11	14	17	26	38	56

(5)

2.4 Bereken die reël van die patroon. **x 3 + 2** (1)

2.5 Voltooi die res van die patroon. **26; 12; 18** (3)

3.



4.

13 blokkies **17 blokkies**

3.1 Teken die 4de en 5de figure van die patroon langsaan. (2)

3.2 **Elke diagram vermeerder met 4 blokkies [+ 4]** (1)

3.3 Voltooi die tabel tot by figuur 7.

Insetgetal	**1**	**2**	**3**	**4**	**5**	**8**	**10**	**14**
Uitsetgetal	**1**	**5**	**9**	**13**	**17**	**29**	**37**	**53**

(3)

3.4 Bereken die reël van die patroon. **x 4 – 3** (1)

3.5 Voltooi die res van die patroon. **29; 10; 14** (3)

4.1 2; 4; 6; 8; 10 … **Reël is: x 2** **10de term is 20** **18de term is 36** (3)

4.2 1; 4; 9; 16 … **Reël is: x^2** **10de term is 100** **18de term is 324** (3)

Afdeling E – Funksies en verwantskappe

1.

Uitdrukking	**Terme**	**Veranderlike/s**	**Konstante/s**	**Koëffisiënt/e**
7 + 6	**2**	**Geen**	**7 en 6**	**Geen**
$8x$ x 9	**1**	**x**	**9**	**8**
$5a$ ÷ 15 + 6	**2**	**a**	**15 en 6**	**5**
$\frac{1}{4} - 4x + 3$ x n	**3**	**x en n**	**$\frac{1}{4}$ en 3**	**4**

(16)

2.1 879 – □ = 456 **□ = 879 – 456 = 423** (2)

2.2 □ x 5 = 625 **□ = 625 ÷ 5 = 125** (2)

2.3 37,9 + □ = 78,3 **□ = 78,3 – 37,9 = 40,4** (2)

2.4 $\square^2 = 289$ **□ = $\sqrt{289}$ = 17** (2)

2.5 $4\frac{1}{2}$ x □ = $112\frac{1}{2}$ **□ = $112\frac{1}{2} \div 4\frac{1}{2} = 25$** (2)

2.6 □ + 15 x 8 = 169 **□ = 169 – (15 x 8) = 169 – 120 = 49** (2)

3.1 $7 + x = 31$ **$x = 31 - 7 = 24$** (2)

3.2 $x - 21 = 81$ **$x = 81 + 21 = 102$** (2)

3.3 $6x = 138$ **$x = 138 \div 6 = 23$** (2)

3.4 $\frac{27+39-6}{x} = 15$ **$x = 60 \div 15 = 4$** (2)

3.5 $19{,}3 + 7{,}8 \times 10 = x$ **$x = 78 + 19{,}3 = 97{,}3$** (2)

4.1 $y = x + 7$, as $x = 9$ **9 + 7 = 16** (2)

4.2 $y = x \times 15$, as $x = 7$ **7 x 15 = 105** (2)

4.3 $y = x + 21{,}6$, as $x = 13{,}7$ **13,7 + 21,6 = 35,3** (2)

4.4 $y = x + 6\frac{3}{4}$, as $x = 2\frac{1}{2}$ **$2\frac{1}{2} + 6\frac{3}{4} = 9\frac{1}{4}$** (2)

4.5 $y = \frac{144 \div 6 + 27}{\square}$, as $x = 17$ **51 ÷ 17 = 3** (2)

5.

5.1

8	→	x 10,5	→	84
10	→		→	105
12	→		→	126
14	→		→	147
16	→		→	168

(4)

5.2

8	→	x 6 – 4	→	44
10	→		→	56
12	→		→	68
14	→		→	80
16	→		→	92

(4)

6.1 As $y = x + 6$

x	1	2	3	4	18	34
y	7	8	9	10	24	40

(5)

6.2 As $y = 7x$

x	1	2	3	4	18	34
y	7	14	21	27	126	238

(5)

6.3 As $y = x - 15$

x	85	65	45	30	20	15
y	70	50	30	15	5	0

(5)

6.4 As $y = \frac{1}{4}x$

x	100	80	60	40	10	1
y	25	20	15	10	2,5	0,25

(5)

6.5 As $y = x^2$

x	1	2	3	6	9	12
y	1	4	9	36	81	144

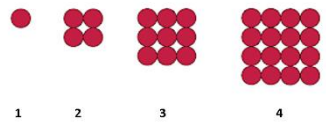
(5)

6.6 As y = $\sqrt{x}$

x	4	9	16	36	81	144
y	2	3	4	6	9	12

(5)

7.1



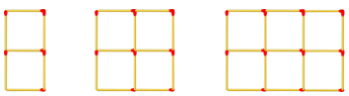
7.1.1 Bereken die reël: $y = x^2$ (1)

7.1 2

Term (Patroon) x	1	2	3	4	7	10
Aantal kolletjies y	1	4	9	16	49	100

(5)

7.2



7.2.1 Bereken die reël: $y = x \times 5 + 2$ (1)

7.2 2

Term (Patroon) x	1	2	3	4	7	10
Aantal vuurhoutjies y	7	12	17	22	37	52

(4)