

Naam van leerder: / Name of learner:

Hierdie vraestel bestaan uit 7 vrae. / This paper consists of 7 questions.

Hoërskool WISKUNDE / MATHEMATICS Graad 8 / Grade 8 (Vraestel 1 / Paper 1) Eksaminator / Examiner: Moderator:	School Junie / June Tyd / Time: 2 uur / hrs Punte / Marks: 100
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INSTRUKSIES	INSTRUCTIONS
1. Beantwoord ALLE vrae.	1. Answer ALL questions.
2. Sakrekenaars mag nie gebruik word nie.	2. Calculators may not be used.
3. Dit is tot jou eie voordeel om netjies en volledig te werk.	3. It is to your advantage to work neatly and show all workings.
4. Trek 'n lyn na elke vraag.	4. Draw a line after each question..

VRAAG 1 / QUESTION 1

1.1 Sê of elk van die volgende bewerings waar of onwaar is: / State whether the following statements are true or false:

1.1.1 0 is die identiteitselement van optelling
0 is the identity element for addition

1.1.2 Alle priemgetalle is onewe getalle
All the prime numbers are odd numbers

1.1.3 1 is 'n priemgetal
1 is a prime number

1.1.4 $-8 > -5$

1.1.5 $6 - 2 = 2 - 6$ (5)

1.2 Gegee: / Given: $-3x^2 + x - 5x^3 - 2$

1.2.1 Skryf die uitdrukking in dalende magte van x . / Write the expression in decreasing powers of x . (1)

1.2.2 Hoeveel terme het die uitdrukking? / How many terms does the expression have? (1)

1.2.3 Wat is die koëfisiënt van x^3 ? / What is the coefficient of x^3 ? (1)

1.2.4 Skryf die konstante term neer. / Write down the constant term. (1)

1.2.5 Wat is die graad van die uitdrukking? / What is the degree of the expression? (1)

1.2.6 Gee die waarde van die uitdrukking as $x = -1$ / Give the value of the expression if $x = -1$ (2)

1.3 Gegee: / Given: 42 ; 60

1.3.1 Skryf elke getal as die produk van sy priemfaktore / Write each number as the product of its primefactors (2)

1.3.2 Vervolgens, bereken die KGV en die LCD / Hence, determine the LCD and the (2)

1.3.3 GGD / HCF (2)

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VRAAG 2 / QUESTION 2

2.1 Verminder R30 in die verhouding 5:6 / Decrease R30 in the ratio 5:6 (2)

2.2 Verdeel R80 in die verhouding 3:5 / Divide R120 in the ratio 3:5 (2)

2.3 Opsie 1 : 2 Blikkies koeldrank kos R15 / Option 1: 2 Tins of cooldrink costs R15.
Opsie 2 : 6 Blikkies koeldrank kos R42. / Option 2: 6 Tins of cooldrink costs R42.

Watter opsie is die goedkoopste. / Which option is the cheapest. (3)

2.4 Bereken die enkelvoudige rente as R6 000 belê word teen 15% per jaar vir 4 jaar. / Determine the simple interest if R6 000 is invested at 15 % per year for 4 years. (2)

2.5 12 Japanese Yen is gelyk aan R1. Hoeveel Yen kry ek vir R300? / 12 Japanese Yen are equal to R1. How much Yen will I get for R300? (2)

VRAAG 6 / QUESTION 6

6.1 Tel die volgende uitdrukkings bymekaar: / Add the following expressions:
 $5a - 2b + 3c$; $-a - 3b - 8c$

(3)

6.2 Van $5c^2 - 2$ trek $-3c^2 + 4$ af. /
From $5c^2 - 2$ subtract $-3c^2 + 4$

(4)

6.3 Indien $x = 2$ en $y = -1$, bereken $-x^2 + 3y$ /
If $x = 2$ and $y = -1$, determine $-x^2 + 3y$

(2)

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VRAAG 7 / QUESTION 7

7.1 Los op vir x : / Solve for x :

7.1.1 $x - 4 = 9$

(1)

7.1.2 $-3x = -18$

(1)

7.1.3 $4x + 2 = -18$

(2)

7.1.4 $\frac{4x}{5} = 8$

(2)

7.1.5 $8x - 8 = 14x + 16$

(3)

7.1.6 $5^x - 1 = 124$

(3)

7.2 Logan het 5 punte meer gekry vir Wiskunde as vir Geskiedenis. As haar totaal vir die 2 vakke 117 is, bereken hoeveel sy vir elke vak gekry het. Skryf 'n vergelyking om jou antwoord te bereken. / Logan got 5 marks more for a Mathematics test than for a History test. If her total for the 2 subjects is 117, what did she get for each subject? Write an equation to determine your answer.

(4)

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[TOTAAL: 100]