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education

Department:
Education
North West Provincial Government
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE/ NASIONALE SENIOR SERTIFIKAAT

GRADE/GRAAD 12

MATHEMATICAL LITERACY P1/ WISKUNDIGE GELETTERDHEID VI

SEPTEMBER 2025

MARKING GUIDELINES/NASIENRIGLYNE

MARKS/PUNTE: 150

Symbol/Kode	Explanation/Verduideliking
M	Method/Metode
MA	Method with accuracy/Metode met akkuraatheid
CA	Consistent accuracy/Volgehoue akkuraatheid
A	Accuracy/Akkuraatheid
C	Conversion/Herleiding
S	Simplification/Vereenvoudiging
RT	Reading from a table/graph/document/diagram/Lees vanaf tabel/grafiek/dokument/diagram
SF	Correct substitution in a formula/Korrekte vervanging in 'n formule
O	Opinion/Explanation/Opinie/Verduideliking
P	Penalty, e.g. for no units, incorrect rounding off, etc./Penalisasie, bv. vir geen eenhede, verkeerde afronding, ens.
R	Rounding off/Afronding
NPR	No penalty for rounding/Geen penalisasie vir afronding nie
AO	Answer only/Slegs antwoord
MCA	Method with consistent accuracy/Metode met volgehoue akkuraatheid
RCA	Rounding consistent with accuracy/Afronding met volgehoue akkuraatheid

These marking guidelines consist of 12 pages/

Hierdie nasienriglyne bestaan uit 12 bladsye.

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NOTE:

- If a candidate answers a question TWICE, only mark the FIRST attempt.
- If a candidate has crossed out (cancelled) an attempt to a question and NOT redone the solution, mark the crossed out (cancelled) version.
- Consistent accuracy (CA) applies in ALL aspects of the marking guidelines; however, it stops at the second calculation error.
- If the candidate presents any extra solution when reading from the graph, table, layout plan and map, then penalise for any extra item presented.
- Rounding is an independent mark.
- General principle of marking, if the candidate makes one mistake one mark is deducted.
- A conclusion mark can only be awarded if relevant calculations of at least $\frac{1}{3}$ of the maximum mark of the sub-question has been awarded.
- No penalty for rounding (NPR) if the first decimal is correct, except questions involving money.

LET WEL:

- As 'n kandidaat 'n vraag TWEE KEER beantwoord, sien slegs die EERSTE poging na.
- As 'n kandidaat 'n antwoord van 'n vraag doodtrek (kanselleer) en nie oordoen nie, sien die doodgetrekte (gekanselleerde) poging na.
- Volgehoue akkuraatheid (CA) word in ALLE aspekte van die nasienriglyne toegepas, dit hou op by die tweede berekeningsfout of 'breakdown'.
- Wanneer 'n kandidaat aflesings vanaf 'n grafiek, tabel, uitlegplan en kaart geneem en ekstra antwoorde gee, penaliseer vir elke ekstra item.
- Afrondings tel as 'n afsonderlike punt.
- Die algemene beginsel van merk as 'n leerder een fout maak, word een punt afgetrek.
- 'n Gevolgtrekkingspunt kan slegs gegee word indien relevante berekeninge van ten minste $\frac{1}{3}$ van die maksimumpunt van die subvraag toegeken is.
- Geen penalisering vir ronding (NPR) as die eerste desimaal korrek is nie, behalwe as vrae geld insluit.

QUESTION/VRAAG 1 [30 MARKS/PUNTE] ANSWER ONLY FULL MARKS			
Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
1.1.1	A South African Citizen/ 'n Suid-Afrikaanse burger ✓✓A OR/OF Permanent resident or Refugee at the time of application/ Permanente inwoner of vlugteling met die tyd van aansoek ✓✓A	2A answer (2)	F L1 E
1.1.2	R259 300 000 000 ✓✓A	2A answer (2)	F L1 E
1.1.3	✓MA Monthly threshold = $R92\,520 \div 12$ = R7 710 ✓M	1MA correct value divided by 12 1A answer (2)	F L1 E
1.1.4	R1 180 ✓✓A	2A answer (2)	F L1 E



Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
1.1.5	$R2\ 190 + R20$ $= R2\ 210$ ✓MA $= R2\ 210 - R2\ 100$ ✓MA $R110$ ✓A	1MA adding correct values 1MA subtract R2 100 from the correct answer 1A answer (3)	F L1 M
1.2.1	Stacked bar graph/ <i>Stapelgrafiek</i> ✓✓A	2A compound stacked bar graph (2)	D L1 E
1.2.2	Survey, Observation/ <i>Opname, Observasie</i> ✓✓A	2A Survey (2)	D L1 E
1.2.3	Day 5/ <i>Dag 5</i> ✓✓A	2A Day 5 (2)	D L1 M
1.2.4	number of medals $= 5 + 6 + 7$ ✓MA $= 18$ medals/ <i>medaljes</i> ✓A	1MA adding correct values 1A 18 medals (2)	D L1 E
1.2.5	$40 : 126$ ✓MA $20 : 63$ ✓A	1A correct values 1MCA correct order 1CA simplified as a ratio (3)	D L1 M
1.3.1	G ✓✓A Accept: The rate of increase in prices over a given period of time./ Aanvaar: Die styging in die prysvlakke oor 'n gegewe tydperk.	2A correct answer (2)	F L1 E
1.3.2	E ✓✓A Accept: $IQR = Q_3 - Q_1$ / Aanvaar: $IKO = K_3 - K_1$	2A correct answer (2)	D L1 E
1.3.3	C ✓✓A Accept: The point at which the total cost and total revenue are equal./ Aanvaar: Die punt waar die totale uitgawes en die totale inkomste gelyk is.	2A correct answer (2)	F L1 E
1.3.4	A ✓✓A Accept: The middle value of an arranged set of data/ Aanvaar: Die middelwaarde van 'n geordende datastel.	2A correct answer (2)	D L1 E
		[30]	





QUESTION/VRAAG 2 [35 MARKS/PUNTE]			
Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
2.1.1	$\checkmark$ MA $30 \times 8 = 240$ balls/balle $\checkmark$ MA $240 \div 4 = 60$ containers/houers $\checkmark$ A	1MA multiply 30 with 8 1MA dividing answer by 4 1A correct answer (3)	F L2 E
2.1.2	Amount VAT excluded/Bedrag BTW uitgesluit $\checkmark$ RT $\checkmark$ MA $R8\ 097,01 \div 1,15$ $= R7\ 040,88$ $\checkmark$ A $= R7\ 040,88 \div 3$ $\checkmark$ MCA $= R2\ 346,96$ $\checkmark$ CA OR/OF $\checkmark$ RT $\checkmark$ MA $R8\ 097,01 \times \frac{100}{115}$ $\checkmark$ MA $= R7\ 040,88$ $\checkmark$ A $= R7\ 040,88 \div 3$ $\checkmark$ MCA $= R2\ 346,96$ $\checkmark$ CA	1RT correct value 1MA divide with 115%/1,15 1A correct answer 1MCA divide by 3 1CA simplification 1RT correct value 1MA multiplying with $\frac{100}{115}$ 1A correct answer 1MCA divide by 3 1CA simplification (5)	F L3 E
2.1.3	Tennis balls/Tennisballe $\checkmark$ MA $60 \times R249$ $= R14\ 940$ $\checkmark$ A Rolling tennis ball basket/Tennisbalmandjies met wiele $R12\ 792,08$ Rackets/Rakette $(16 - 1 = 15)$ $\checkmark$ A for free/1 verniet $R2\ 099 \times 15$ $R31\ 485$ $\checkmark$ MCA $\checkmark$ MA Racket bags/Raketsakke $R8\ 097,01$ Total cost/Totale koste $\checkmark$ MCA $R14\ 940 + R12\ 792,08 + R31\ 485 + R8\ 097,01$ $R67\ 314,09$ $\checkmark$ CA	CA from number of balls from 2.1.1 1MCA multiplying correct value with 60 1CA correct answer 1A correct value 15 1MCA multiplying by R2 099 1CA correct answer 1MCA adding all costs 1CA correct cost (7)	F L3 M





Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
2.2.1	✓✓ RT Two options	2RT correct answer (2)	F L1 E
2.2.2	✓RT $R59\,515 \times 3$ ✓A = R178 545 ✓A	1RT correct value 1MA multiply by 3 1A correct answer (3)	F L2 E
2.2.3	$\frac{R22\,781,75}{R178\,545} \times 100\%$ ✓MCA = 12,8% ✓CA = 13% ✓R	CA from 2.2.2 1MCA correct fraction 1MA multiplying by 100% 1CA simplification 1R rounded answer (4)	F L2 M
2.2.4	Interest paid/rente betaal Year 1/Jaar 1 $R59\,515 \times 112,5\%$ ✓MA = R66 954,375 ✓MA Year 2/Jaar 2 $R66\,954,375 \times 112,5\%$ = R75 323,67188 ✓MA $12,5\% \times \frac{6}{12} = 6,25\%$ ✓MA $R75\,323,67188 \times 6,25\%$ = R4 707,729492 ✓CA $R75\,323,67188 + R4\,707,729492$ = R80 031,40137 ✓MCA = R80 031,40137 – 59 515 ✓MCA = R20 516,40 ✓CA ✓O Lorenzo's statement is CORRECT. Lorenzo's bewering is KORREK.	 1MA calculating percentage 1MA first year final amount 1MA second year final amount 1MA calculating percentage 1CA 6 months interest amount 1MCA correct final amount 1MA subtract 59 515 from final amount 1CA correct answer 1O conclusion	F L4 D





	OR/OF Year 1/Jaar 1 $R59\,515 \times 12,5\%$ ✓MA $= R7\,439,38$ (A) $= R7\,439,38 + R59\,515$ ✓CA $= R66\,954,375$ ✓A Year 2/Jaar 2 $R66\,954,375 \times 12,5\%$ $= R8\,369,30$ (B) $= R8\,369,30 + R66\,954,375$ $= R75\,323,67188$ ✓MA $12,5\% \times \frac{6}{12} = 6,25\%$ ✓MA $R75\,323,67188 \times 6,25\%$ $= R4\,707,729492$ (C) ✓CA $R75\,323,67188 + R4\,707,729492$ $= R80\,031,40137$ $= A + B + C$ ✓MCA $= R7\,439,38 + R8\,369,30 + R4\,707,729492$ $= R20\,516,40$ ✓CA ✓O Lorenzo's statement is CORRECT. <i>Lorenzo's bewering is KORREK.</i> OR/OF Interest paid/rente betaal ✓✓MC ✓MCA ✓✓MCA $R59\,515 \times 112,5\% \times 112,5\% \times 106,25\% - 59\,515$ ✓MCA ✓MCA $= R80\,031,40137 - 59\,515$ $= R20\,516,40$ ✓MCA ✓O Lorenzo's statement is CORRECT. <i>Lorenzo's bewering is KORREK.</i>	1MA multiply with 12,5% 1MCA adding correct values 1A year 1 correct amount 1MA second year final amount 1MA calculating percentage 1CA 6 months interest amount 1MCA adding correct values 1CA correct answer 1O conclusion (9)	
2.2.5	To avoid paying interest/Om die betaal van rente te vermy.	2A opinion (2)	F L4 M
		[35]	





QUESTION/VRAAG 3 [26 MARKS/PUNTE]			
Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
3.1	Australia/Australië ✓✓A	2A correct country (2)	D L1 E
3.2	Shooter 2/Doel 2 ✓A South Africa/Suid-Afrika ✓A	1A correct shooter 1A correct country (2)	D L1 E
3.3	100 ✓A 91 ✓A 89 ✓A	1A 100 1A 91 1A 89 (3)	D L2 M
3.4	71, 78, 82, 89, 91, <u>91, 92</u> , 92, 93, 100, 100, 100 ✓MA Median/Mediaan = $(91+92) \div 2$ ✓MA = 91,5 ✓CA	1MA arranging data in ascending order 1MA concept of median 1CA correct median (3)	D L2 M
3.5.1	New Zealand/ Nieu-Seeland 67, 79, <u>80, 89</u> , 89, <u>91, 91</u> , 92, <u>94, 96</u> , 100, 100 ✓MA $Q1 = \frac{80+89}{2}$ ✓MA Q1 = 84,5 ✓A Q2 = 91 $Q3 = \frac{94+96}{2}$ ✓A Q3 = 95 ✓MA IQR = Q3 - Q1 ✓A = 95 - 84,5 ✓A = 10,5% ✓CA	1MA arrange correct data in ascending order 1MA correct quartile 1 1A answer 1A quartile 3 1A correct formula 1CA subtracting values 1CA simplification (7)	D L3 M
3.5.2	✓CA Australia, smaller IQR indicates more consistency ✓✓O Australië, die kleiner IKO toon meer konsekwentheid aan	1CA correct country 2O conclusion (3)	D L4 D
3.6	✓✓A Player was injured/ill/disqualified/tired/replaced/substituted Speler was beseer/siek/gediskwalifiseer/moeg/vervang	2A any one reason (2)	D L4 E
3.7	✓MA $\frac{7}{45} \times 100$ ✓MA ✓MA = 15,56% ✓R	1MA correct numerator 1MA correct denominator 1MA % calculation 1R rounding (4)	P L3 M
			[26]





QUESTION/VRAAG 4 [29 MARKS/PUNTE]			
Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
4.1.1	Daniil Medvedev ✓RT 1,98 m ✓RT	1RT Daniil Medvedev 1RT 1,98 m (2)	D L1 E
4.1.2	Range = Highest – Lowest/ <i>Omvang = Hoogste - Laagste</i> = 38 – 20 ✓MA = 18 ✓A	1MA concept of mean 1MA subtracting correct values 1A answer (3)	D L2 E
4.1.3	✓A ✓MA \$10,3 million + \$12,2 million + \$11,7 million + \$11,6 million + \$7,3 million = \$53,1 million ✓CA	1A correct 5 values 1MA adding the values 1CA correct answer (3)	F/D L2 E
4.1.4 (a)	✓✓A The value of one currency for the purpose of conversion to another/ <i>Die koers waarteen een geldeenheid vir 'n ander omgeruil sal word.</i>	2A correct definition (2)	F L1 E
4.1.4 (b)	✓MA \$32 million + \$23 million = \$55 million \$55 million × 0,8996 ✓MCA = €49 478 000/€49,478 million ✓CA	1MA adding correct values 1A answer 1MCA multiply with 0,8996 1CA answer in euros (4)	F L2 M
4.1.5	Percentage female earnings/ <i>Persentasie vroulike inkomste</i> \$27,1 million + \$26,7 million + \$14,6 million + \$13,7 million = \$82,1 million ✓A $\frac{\$82,1 \text{ million}}{\$245,7 \text{ million}} \times 100\%$ ✓MCA ✓MCA = 33,41473341% ✓CA = 33,415 % ✓CA OR/OF \$27 100 000 + \$26 700 000 + \$14 600 000 + \$13 700 000 = \$82 100 000 ✓A $\frac{\$82 100 000}{\$245 700 000} \times 100\%$ ✓MCA ✓MCA = 33,41473341% ✓CA = 33,415 % ✓CA	1A correct total values 1MCA divided by 245,7 1MCA percentage calculation 1CA answer 1CA correct rounded answer 1A correct total values 1MCA divided by 245,7 1MCA percentage calculation 1CA answer 1CA correct rounded answer	F/D L4 D

Q/V	Solution/Oplissing	(5) Explanation/Verduideliking	T&L
4.1.6	$\text{Mean/Gemiddeld} = \frac{\overset{\checkmark}{\text{RT}} (10,3+12,2+11,6+0,3+7,3+3,9+6,7)\text{MM}}{6} \checkmark\text{MA}$ $\frac{15,6 \text{ MM}}{6} \checkmark\text{MA}$ $= 7,6 \text{ million (MM)} \checkmark\text{A} \text{ OR/OF } 7\,600\,000$	1RT correct values 1MA concept of mean 1MA divided by 6 1A answer in millions (4)	D L2 M
4.2.1	$2 + 5 + 7 = 14$ $\frac{7}{14} = \frac{1}{2} \checkmark\text{A}$ $\checkmark\text{A}$ OR/OF $\text{Half of the amount/Helfte van die bedrag} \checkmark\checkmark\text{A}$	1A adding ratio (14) 1A answer 2A correct answer (2)	F L1 E
4.2.2	$\checkmark\text{A}$ $\frac{5}{14} \times \text{£ } 175\,000 \checkmark\text{MA}$ $= \text{£}62\,500 \checkmark\text{CA}$ $\checkmark\text{O}$ His statement is CORRECT/Sy bewering is KORREK.	CA denominator from 4.2.1 1A correct ratio 1MA multiplying with £175 000 1CA correct answer 1O conclusion (4)	F L4 M
		(4)	[29]



QUESTION/VRAAG 5 30 MARKS/PUNTE			
Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
5.1.1	$\checkmark$ MA $2025 - 1959$ $= 66 \text{ years/jare}$ $\checkmark$ A	1MA subtracting two correct years 1A correct answer AO (2)	F L1 E
5.1.2	$\checkmark$ RT $\checkmark$ MCA $\$256\,800 \times 35\%$ $= \$89\,880$ $\checkmark$ CA (If no dollar unit penalise with one mark/indien geen dollar eenheid penaliseer met een punt)	1RT correct rate 1MCA multiplied by 35% 1CA correct answer (3)	F L2 E
5.1.3	Total medical credit/Totale mediese korting $\checkmark$ MA $\checkmark$ MA $= (R364 \times 2) + (R246 \times 7)$ $= R728 + R1\,72$ $= R2\,450 \times 12$ $\checkmark$ MCA $= R29\,400$ $\checkmark$ CA	1MA multiplying R364 by 2 1MA multiplying R246 by 7 1MCA calculating annual amount 1CA correct answer (4)	F L2 M
5.1.4	Tax payable in South Africa / <i>Belasting betaalbaar in Suid-Afrika</i> $\checkmark$ MA $\$256\,800 \times 17,1232$ $= R4\,397\,237,76$ $\checkmark$ A $\checkmark$ RT $\checkmark$ S $R644\,489 + 45\% (4\,397\,237,76 - 1\,817\,000)$ $= R644\,489 + 45\% (2\,580\,237,76)$ $= R644\,489 + 1\,161\,106,992$ $\checkmark$ CA $= R1\,805\,595,992 - 29\,400$ $= R1\,776\,195,992 - (17\,235 + 9\,444)$ $= R1\,749\,516,99$ $\checkmark$ CA $\checkmark$ MCA Tax payable in U.S / <i>Belasting betaalbaar in VSA</i> $\checkmark$ MCA $\$89\,880 \times 17,1232$ $R1\,539\,033,22$ $\checkmark$ CA $\checkmark$ O John McEnroe will pay less tax in the U.S./John McEnroe sal minder belasting betaal in die VSA	CA from 5.1.2 and 5.1.3 1MA multiply by 17,1232 1A correct answer 1RT correct tax bracket 1S substitution of correct value 1CA simplification 1MCA subtracting medical credit and rebate 1CA correct answer 1MCA multiply by 17,1232 1A correct answer 1O conclusion SA EXAM PAPERS (10)	F L3 M



Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
	OR/OF Tax payable in South Africa / <i>Belasting betaalbaar in Suid-Afrika</i> ✓MA $\\$256\,800 \times 17,1232$ $= R4\,397\,237,76$ ✓A ✓RT ✓S $R644\,489 + 45\% (4\,397\,237,76 - 1\,817\,000)$ $= R644\,489 + 45\% (2\,580\,237,76)$ $= R644\,489 + 1\,161\,106,992$ ✓CA } ✓MCA $= R1\,805\,595,992 - 29\,400$ $= R1\,776\,195,992 - (17\,235 + 9\,444)$ $= R1\,749\,516,99$ ✓CA ✓MCA $R1\,749\,516,99 \div 17,1232$ ✓MCA $= \\$102\,172,32$ ✓CA Tax payable in U.S / <i>Belasting betaalbaar in VSA</i> \$ 89 880 ✓O John McEnroe will pay less tax in the U. S./<i>John McEnroe sal minder belasting betaal in die VSA</i>	CA from 5.1.2 and 5.1.3 1MA multiply by 17,1232 1A correct answer 1RT correct tax bracket 1S substitution of correct value 1CA simplification 1MCA subtracting medical credit and rebate 1CA correct answer 1MCA divide by 17,1232 1A correct answer 1O conclusion	(10)
5.2.1	✓RT $44\,775 - 16\,337$ ✓RT $= 28\,438$ ✓A	1RT correct value 1RT correct value 1CA simplification	D L2 E (3)
5.2.2	% Difference = $\frac{2021 \text{ sales} - 2020 \text{ sales}}{2020 \text{ sales}} \times 100\%$ ✓MA ✓SF $= \frac{329\,190 - 122\,607}{122\,607} \times 100\%$ ✓S $= \frac{206\,583}{122\,607} \times 100\%$ $= 168,492\% \approx 168\%$	1MA correct formula 1SF substitution 1S simplification	D L2 D (3)





Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
5.2.3	$\frac{6}{24} \checkmark \text{RT}$ $= 0,25 \checkmark \text{CA}$	1RT correct numerator 1RT correct denominator 1CA correct decimal (3)	P L3 M
5.2.4	$\checkmark \text{A}$ From March 2021 there was a strong decline in the sales for 2 months but in June and July increased rapidly/ $\checkmark \text{A}$ <i>Van Maart 2021 was daar 'n sterk vermindering in verkope, maar van Junie en Julie was daar 'n skielike styging in verkope.</i>	1O strong decline 1O rapid incline (2)	D L4 E
		[30]	
		TOTAL/TOTAAL: 150	

