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**SENIOR CERTIFICATE EXAMINATIONS/
NATIONAL SENIOR CERTIFICATE EXAMINATIONS
SENIORSERTIFIKAAT-EKSAMEN/
NASIONALE SENIORSERTIFIKAAT-EKSAMEN**

MATHEMATICAL LITERACY P1/WISKUNDIGE GELETTERDHEID V1

2023

MARKING GUIDELINES/NASIENRIGLYNE

MARKS/PUNTE: 150

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

**These marking guidelines consist of 19 pages.
Hierdie nasienriglyne bestaan uit 19 bladsye.**

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 a graph, table, layout plan and map, then penalise for every extra item presented.
- Rounding is an independent mark.
- General principle of marking, if the candidate makes one mistake he loses one mark.
- A conclusion mark can only be given if relevant calculations precedes it.

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 egter op by die tweede berekeningsfout.*
- *Wanneer 'n kandidaat aflesings vanaf 'n grafiek, tabel, uitlegplan en kaart geneem en ekstra antwoorde gee, penaliseer vir elke ekstra item.*
- *Afronding tel as 'n afsonderlike punt.*
- *Die algemene beginsel van merk as 'n leerder een fout maak verloor hy een punt.*
- *'n Gevolgtrekkingspunt kan slegs gegee word indien relevante berekening dit voorgaan.*

QUESTION/VRAAG 1 [31 MARKS/PUNTE] ANSWER ONLY FULL MARKS			
Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
* 1.1.1	$\checkmark A$ $\checkmark A$ Hire-purchase / online credit (Mobicred) / Cash price. OR/OF <i>Huurkoop / aanlyn krediet (Mobicred) / Kontant prys.</i> <i>(Any two/Enige twee)</i>	1A first method 1A second method (2)	F L1
* 1.1.2	You buy the generator at a monthly installment. Only after your final installment you own the generator. <i>Jy koop die generator teen 'n maandelikse paaieiment.</i> <i>Slegs na die laaste paaieiment het jy die generator $\checkmark\checkmark A$ gekoop.</i>	2A correct explanation (2)	F L1
1.1.3	14,75% $\checkmark\checkmark RT$	2RT correct percentage (2)	F L1
1.1.4	Total cost / <i>totale koste</i> $\checkmark MA$ $R1\ 006 \times 12$ $= R12\ 072$ $\checkmark A$	1MA multiply by 12 1A simplification (2)	F L1

Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
1.1.5	Discount / <i>afslag</i> $= R10\,999 \times \frac{12,5}{100}$ ✓MA $= R1\,374,88$ ✓A	1MA calculating 12,5% 1A amount discount Accept: R1 374,90 OR R1 375 (2)	F L1
1.1.6	Simple Interest / <i>Enkelvoudige rente</i> ✓✓A	2A simple interest (2)	F L1
* 1.2.1	Ascending order / <i>Stygende orde</i> ✓RT -17,4%; - 6,7%; - 1,1%; 10,1%; 42,7%; 90,1%; 122,2% ✓A	1RT correct values 1A ascending order (2)	D L1
* 1.2.2	Sport skirt / <i>Sport rompie</i> ✓✓RT	2RT correct item (2)	D L1
1.2.3	Difference / <i>Verskil</i> $= R171,00 - R89,95$ ✓MA $= R81,05$ ✓A	1MA subtracting correct values 1A difference (2)	F L1
1.2.4	Total cost / <i>totale koste</i> $= R267,92 + R214,17 + R248,70 + R267,78$ $+ R87,75 + R48,58 + R89,95$ ✓MA $= R1\,224,85$ ✓CA	1MA adding correct values 1CA simplification CA only if 1 value omitted (2)	F L1
* 1.2.5	Shinpads / <i>Skeenskud</i> OR/OF ✓✓A Hockey shoes / <i>Hokkieskoene.</i> <i>(Any hockey related equipment)</i>	2A correct item (2)	D L1

Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
* 1.3.1 (a)	EC / OK ✓✓RT	2RT correct province (2)	D L1
* 1.3.1 (b)	WC / WK ✓✓RT	2RT correct province (2)	D L1
1.3.2	No province / <i>Geen provinsie</i> OR/OF ✓✓A No Mode / <i>Geen Modus</i>	2A correct solution (2)	D L1
* 1.3.3	Number of unemployed people / <i>Aantal werklose mense</i> ✓RT = 35,6% × 918 000 ✓MA = 326 808 ✓CA	1RT correct % 1MA calculating percentage 1CA simplification (3)	D L1
		[31]	



QUESTION/VRAAG 2 [33 MARKS/PUNTE]			
Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
* 2.1.1	125 Bossie Street, Upington ✓✓RT	2RT correct address (2)	F L1
2.1.2	<p>Excluding VAT / <i>BTW uitgesluit</i></p> <p>✓RT $= R900 \times \frac{100}{115}$ ✓MA $= R782,6086957$ $= R782,61$ ✓A</p> <p style="text-align: center;">OR/OF</p> <p>✓RT $= \frac{R900}{1,15}$ ✓MA $= R782,6086957$ $= R782,61$ ✓A</p> <p style="text-align: center;">OR/OF</p> <p>VAT / <i>BTW</i> ✓RT $= R900 \times (15 \div 115)$ $= R117,39$ ✓A</p> <p>Excluding VAT / <i>BTW uitgesluit</i> $= R900 - R117,39$ $= R782,61$ ✓A</p>	<p>1RT correct accommodation 1MA excluding calculation</p> <p>1A simplification</p> <p style="text-align: center;">OR / OF</p> <p>1RT correct accommodation 1MA excluding calculation</p> <p>1A simplification</p> <p style="text-align: center;">OR / OF</p> <p>1RT correct accommodation 1A vat amount</p> <p>1A simplification (3)</p>	F L2
2.1.3	<p>$C = R75\,040,00 - (R28\,800 + R5\,760 + R6\,480)$ ✓MA $= R34\,000$ ✓CA</p> <p style="text-align: center;">OR / OF</p> <p>$C = R850 \times 2 \times 20$ ✓MA $= R34\,000$ ✓CA</p>	<p>1MA correct values used 1CA simplification</p> <p style="text-align: center;">OR / OF</p> <p>1MA multiply correct values 1CA simplification (2)</p>	F L1

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
* 2.1.4	<p>Number of guests in 4-bed rooms / <i>Aantal gaste in 'n 4-bed-kamers</i></p> <p>= R34 000 ÷ (2 × 850) ✓MCA = 20 ✓CA</p> <p>Number of guests in 2-bed rooms <i>Aantal gaste in 'n 2-bed-kamers</i></p> <p>= R28 800 ÷ (2 × 900) ✓MCA = 16 ✓CA</p> <p>Ratio/<i>Verhouding</i> = 16 : 20 ✓MCA = 4 : 5 ✓CA</p> <p style="text-align: center;">OR / OF</p> <p>Number of guests in 2-bed rooms <i>Aantal gaste in 'n 2-bed-kamers</i></p> <p>= R28 800 ÷ (2 × 900) ✓MA = 16 ✓CA</p> <p>Number of guest in 4-bed rooms <i>Aantal gaste in 'n 4-bed-kamers</i> ✓MCA = 36 – 16 = 20 ✓CA</p> <p>Ratio/<i>Verhouding</i> = 16 : 20 ✓MCA = 4 : 5 ✓CA</p> <p style="text-align: center;">OR / OF</p> <p>✓MA ✓MA = $\frac{R28\,800}{900} : \frac{R34\,000}{850}$ ✓MA</p> <p>Ratio/<i>Verhouding</i> = 32 : 40 ✓MCA = 4 : 5 ✓CA</p>	<p>CA from Question 2.1.3</p> <p>1MCA dividing and multiplying 1CA simplification</p> <p>1MCA dividing and multiplying 1CA number of guest in 2-bed accommodation</p> <p>1MCA ratio in correct order 1CA simplification</p> <p style="text-align: center;">OR / OF</p> <p>1MA dividing and multiplying 1CA simplification</p> <p>1MCA subtracting 1CA number of guest in 2-bed accommodation</p> <p>1MCA ratio in correct order 1CA simplification</p> <p style="text-align: center;">OR / OF</p> <p>1MA left ratio 1MA right ratio 1MA concept of ratio 1A correct value 1MCA ratio in correct order 1CA simplification</p>	F L3

(6)



Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
2.1.5	<p>Cost of one guest in 2-bed room/ <i>Koste van een gas in 'n 2-bed-kamer</i> $= 2 \times R900$ $= R1\ 800 \checkmark A$</p> <p>Refund for cancelling before check-in time/ <i>Terugbetaling vir kanselasie voor inteken tyd</i></p> $= \frac{75}{100} \times R1\ 800 \checkmark MCA$ $= R1\ 350 \checkmark CA$ <p>Refund for cancelling after check-in time/ <i>Terugbetaling vir kanselasie na inteken tyd</i></p> $\frac{25}{100} \times R1\ 800$ $= R450 \checkmark CA$ <p>Refund for meals/<i>Terugbetaling vir etes</i> $= 4 \times R80 + 4 \times R90$ $= R680 \checkmark A$</p> <p>Total Refund/ <i>Totale Terugbetaling</i> $= R450 + R1\ 350 + R680$ $= R2\ 480 \checkmark CA$</p> <p>Statement is CORRECT/<i>Stelling is KORREK</i> $\checkmark O$</p> <p style="text-align: center;">OR / OF</p>	<p>1A total accommodation</p> <p>1MCA calculating 75%</p> <p>1CA simplification</p> <p>1CA second accommodation refund</p> <p>1A meal refund</p> <p>1CA total refund</p> <p>1O conclusion</p> <p style="text-align: center;">OR / OF</p>	<p>F L4</p>



Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
2.1.5	<p>First Person / <i>Eerste persoon</i> Total cost of room / <i>Totale koste van kamer</i> $= 2 \times R900$ $= R1\ 800$ ✓A</p> <p>Refund for accommodation / <i>Terugbetaling van akkomodasie</i> $= R1\ 800 \times 25\%$ $= R450$ ✓MCA</p> <p>Total refund / <i>Totale terugbetaling</i> $= R450 + 2 (R80,00 + R90)$ $= R790$ ✓CA</p> <p>Second Person / <i>Tweede Persoon</i> Total cost of room / <i>Totale koste van kamer</i> $= 2 \times R900$ $= R1\ 800$</p> <p>Refund for accommodation / <i>Terugbetaling vir akkomodasie</i> $= R1\ 800 \times 75\%$ $= R1\ 350$</p> <p>Total refund / <i>Totale terugbetaling</i> $= R1\ 350 + 2 (R80,00 + R90)$ ✓A $= R1\ 690$ ✓CA</p> <p>Total refund for both people / <i>Totale terugbetaling vir beide persone</i> $= R1\ 690 + R790 = R2\ 480$ ✓CA</p> <p>Statement is CORRECT / <i>Stelling is KORREK.</i> ✓O</p>	<p>1A total accommodation</p> <p>1MCA calculating 25%</p> <p>1CA simplification</p> <p>1A total meals 1CA total refund</p> <p>1CA total refund for 2 people</p> <p>1O conclusion</p>	(7)
* 2.2.1	<p>Cost to fix the vehicle / <i>Koste om voertuig reg te maak</i></p> <p>$= R50\ 000 + R22\ 000 + R3\ 682,50 + R450$ ✓MA $= R76\ 132,50$ ✓CA</p>	<p>1MA adding all values 1CA correct answer AO</p>	F L1 (2)

Q/V	Solution/ <i>Oplossing</i>	Explanation/ <i>Verduideliking</i>	T&L
2.2.2	<p>Selling price / <i>verkoopprys</i></p> $= \frac{65}{100} \times R145\,900 \checkmark MA$ $= R94\,835 \checkmark A$ $= R94\,835 - R76\,132,50 \checkmark MCA$ $= R18\,702,50 \checkmark CA$ <p>Not VALID / <i>Nie GELDIG nie</i> $\checkmark O$</p>	<p>CA from Question 2.2.1</p> <p>1MA percentage calculation</p> <p>1A correct answer</p> <p>1MCA subtracting values</p> <p>1CA simplification</p> <p>1O conclusion</p> <p style="text-align: right;">(5)</p>	F L4
2.2.3	<p>Interest / <i>rente</i></p> $= R15\,000 \times 6,25\%$ $= R937,50 \checkmark A$ <p>Amount after one year / <i>bedrag na een jaar</i></p> $= R15\,000 + R937,50 \checkmark MA$ $= R15\,937,50 \checkmark CA$ <p>Interest for second year / <i>rente vir tweede jaar</i></p> $= R15\,937,50 \times 6,95\%$ $= R1\,107,66 \checkmark CA$ <p>Amount after two years / <i>bedrag na twee jaar</i></p> $= R15\,937,50 + R1\,107,66$ $= R17\,045,16$ <p>Interest after two years / <i>rente na twee jaar</i></p> $= R17\,045,16 - R15\,000 \checkmark MCA$ $= R2\,045,16 \checkmark CA$ <p style="text-align: center;">OR / OF</p> <p>Interest / <i>rente</i></p> $= R15\,000 \times 6,25\% = R937,50 \checkmark A$ <p>Amount after one year / <i>bedrag na een jaar</i></p> $= R15\,000 + R937,50 \checkmark MA$ $= R15\,937,50 \checkmark CA$ <p>Interest for second year / <i>rente vir tweede jaar</i></p> $= R15\,937,50 \times 6,95\%$ $= R1\,107,66 \checkmark CA$ <p>Interest after two years / <i>rente na twee jaar</i></p> $= R937,50 + R1\,107,66 \checkmark MCA$ $= R2\,045,16 \checkmark CA$ <p style="text-align: center;">OR / OF</p>	<p>1A interest</p> <p>1MA adding interest</p> <p>1CA Simplification</p> <p>1CA simplification</p> <p>1MCA subtracting values</p> <p>1CA simplification</p> <p style="text-align: center;">OR / OF</p> <p>1A interest</p> <p>1MA adding interest</p> <p>1CA Simplification</p> <p>1CA simplification</p> <p>1MCA adding values</p> <p>1CA simplification</p> <p style="text-align: center;">OR / OF</p>	F L3

Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
2.2.3	<p>Amount after two years / <i>bedrag na twee jaar</i></p> $= R15\,000 \times 1,0625 \times 1,0695$ <p style="text-align: center;">✓MA ✓MA</p> $= R17\,045,16$ <p style="text-align: center;">✓CA</p> <p>Interest after two years / <i>rente na twee jaar</i></p> $= R17\,045,16 - R15\,000$ <p style="text-align: center;">✓MCA</p> $= R2\,045,16$ <p style="text-align: center;">✓CA</p>	<p>1MA adding percentage year 1 1MA adding percentage year 2 1MA multiplying year 1 & 2 1CA simplification</p> <p>1MCA subtracting values 1CA simplification</p>	
		(6)	[33]



QUESTION/VRAAG 3 [25 MARKS/PUNTE]			
Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
3.1.1	537 ✓✓RT	2RT correct value (2)	D L1
* 3.1.2	$\begin{aligned} & \checkmark\text{RT} \\ \text{Difference/Verskil} &= 2\,163 - 2\,828 \\ &= -665 \checkmark\text{CA} \end{aligned}$	1RT correct values chosen 1CA simplification (2)	D L1
3.1.3	<p>% employees with disabilities / <i>werkers met gestremdhede</i></p> $\begin{aligned} & \checkmark\text{RT} \\ &= \frac{34}{2\,163} \times 100\% \checkmark\text{MCA} \\ &= 1,572\% \checkmark\text{CA} \end{aligned}$	<p>CA from Question 3.1.2</p> <p>1RT correct values chosen 1MCA calculate % 1CA simplification Accept: 1,6% and 1,57% (3)</p>	D L2
3.1.4	<p>% employees at head-office/ % <i>werkers by hoofkantoor</i></p> $\begin{aligned} &= 1,5\% \times 2\,163 \\ &= 32,445 \checkmark\text{A} \end{aligned}$ <p>Number of employees in motor dealerships <i>Aantal werkers in motorhandelaar</i></p> $\begin{aligned} &= 2\,163 - 32,445 \checkmark\text{MCA} \\ &= 2\,130,555 \checkmark\text{CA} \end{aligned}$ <p>Average per dealership/<i>gemiddelde per motorhandelaar</i></p> $\begin{aligned} &= 2\,130,555 \div 41 \checkmark\text{MCA} \\ &= 51,9647\dots \checkmark\text{CA} \end{aligned}$ <p style="text-align: center;">OR / OF</p> <p>% employees at head-office/ % <i>werkers by hoofkantoor</i></p> $\begin{aligned} &= 100\% - 1,5\% \\ &= 98,5\% \checkmark\text{A} \end{aligned}$	<p>CA from Question 3.1.2</p> <p>1A employees at head office</p> <p>1MCA subtracting 1CA employees at branches</p> <p>1MCA average concept 1CA simplification</p> <p style="text-align: center;">OR / OF</p> <p>1A employees at head office</p>	D L3

Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
3.1.4	Number of employees in motor dealerships <i>Aantal werkers in motorhandelaar</i> $= 98,5\% \times 2\,163 \checkmark \text{MCA}$ $= 2\,130,555 \checkmark \text{CA}$ Average per dealership/ <i>gemiddelde per motorhandelaar</i> $= 2\,130,555 \div 41 \checkmark \text{MCA}$ $= 51,9647 \checkmark \text{CA}$	1MCA multiplying 1CA employees at branches 1MCA average concept 1CA simplification NPR Accept: 51,96 / 51,97 / 52 / 51	(5)
3.1.5	% coloured females / % <i>bruin vroue</i> $\checkmark \text{RT}$ $= \frac{54}{2\,163} \times 100\% \checkmark \text{MA}$ $= 2,497\% \checkmark \text{R}$	CA from Question 3.1.2 1RT correct values 1MA probability concept 1R rounded answer	P L2 (3)
3.2.1 (a)	Lower Quartile / <i>Onderste kwartiel</i> = 21 $\checkmark \checkmark \text{RT}$	2RT finding correct value Accept: above 20 – less than 22	D L2 (2)
3.2.1 (b)	75 th percentile / <i>75ste persentiel</i> = 28,2 $\checkmark \checkmark \text{RT}$	2RT finding correct value Accept: above 28 – 29	D L2 (2)
3.2.1 (c)	Median / <i>Mediaan</i> = 31,5 $\checkmark \checkmark \text{RT}$	2RT finding correct value Accept: 30,5 – 32,5	D L2 (2)

Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
3.2.2	<p>50% of all the provinces had an unemployment rate of higher than 31,75% / ✓✓O <i>50% van al die provinsies het 'n werkloosheidskoers van hoër as 31,75%</i></p> <p style="text-align: center;">OR / OF</p> <p>The median of the data is the highest in 2021. ✓✓O <i>Die mediaan van die data is die hoogste in 2021.</i></p> <p style="text-align: center;">OR / OF</p> <p>The maximum value is the highest in 2021. <i>Die maksimum waarde is die hoogste in 2021.</i> ✓✓O</p> <p style="text-align: center;">OR / OF</p> <p>The box and whisker indicates a higher unemployment rate / <i>Die mond-en-snordiagram dui 'n hoër werkloosheidskoers aan.</i> ✓✓O</p> <p style="text-align: center;">OR / OF</p> <p>Q3 is higher in 2021 than in 2020 and 2019. <i>K3 is hoër in 2021 as in 2020 en 2019.</i> ✓✓O</p> <p>(Any two reasons / <i>Enige 2 redes</i>)</p>	<p>20 first explanation</p> <p>20 second explanation</p>	<p>D L4</p> <p style="text-align: right;">(4)</p>
			[25]

QUESTION/VRAAG 4 [29 MARKS/PUNTE]			
Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
4.1.1	<p>Banks are discouraging clients to go to the branch to reduce the number of people visiting the bank / <i>Banke ontmoeding kliente om binne die bank transakies te doen om die aantal mense binne die bank te verminder.</i> ✓✓A</p> <p style="text-align: center;">OR / OF</p> <p>Banks have to pay employees working in the bank / <i>Banke moet werkers betaal om in die bank te werk.</i> ✓✓A</p> <p style="text-align: center;">OR / OF</p> <p>To reduce the wage bill / <i>Om die loonrekening te verminder.</i> ✓✓A</p>	<p>2A explanation</p> <p>(2)</p>	F L4
4.1.2	<p>Difference in cost / <i>Verskil in koste</i></p> <p>= R5,00 – R1,50 ✓RT = R3,50 ✓A</p>	<p>1RT correct values 1A simplification</p> <p>(2)</p>	F L2
4.1.3	<p>Nedbank: Pay-as-you-use / <i>Betaal-soos-jy-gebruik</i></p> <p>Transaction cost / <i>Transaksiekoste</i></p> <p>✓A ✓A ✓SF ✓A = $2 \times R5,00 + 2 \times R9,00 + R11 + 5 \times R2,30 + R15$</p> <p>= R65,50 ✓CA</p> <p>Difference / <i>Verskil</i></p> <p>= R65,50 – R45,00 = R20,50 ✓CA</p> <p>His statement is VALID / <i>Sy bewering is GELDIG.</i> ✓O</p>	<p>1A debit order fees 1A cash withdrawal own ATM 1SF correct formula 1A cash send cost</p> <p>1CA simplification</p> <p>1CA subtracting</p> <p>1O valid</p> <p>(7)</p>	F L4

Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
* 4.2.1	<p>Annual tax payable before primary rebate/ <i>Jaarlikse belasting betaalbaar voor primêre korting</i> = $R87\,329 \times 18\%$ ✓MA = $R15\,719,22$ ✓CA</p> <p>Annual tax payable after primary rebate/ <i>Jaarlikse belasting betaalbaar na primêre korting</i> = $R15\,719,22 - R15\,714$ ✓MCA = $R5,22$ ✓CA</p>	<p>1MA correct tax bracket 1CA simplification</p> <p>1MCA subtracting primary rebate 1CA simplification</p> <p>(4)</p>	F L3
4.2.2	<p>The discount SARS gives to tax payers / <i>Die korting wat SARS vir belasting betalers gee.</i></p> <p style="text-align: center;">OR / OF</p> <p style="text-align: right;">✓✓O</p> <p>Rebate is a tax relief given to tax payers / <i>Korting is die belasting verligting wat aan belasting betalers gegee word.</i></p>	<p>2O tax discount</p> <p>(2)</p>	F L1
4.2.3	<p>✓RT ✓RT $R15\,714 + R8\,613$ ✓MA = $R24\,327$ ✓MCA</p> <p>$R24\,327 \div 18\%$ ✓MCA = $R135\,150$</p> <p style="text-align: center;">OR / OF</p> <p>= $R135\,150 \times 18\%$ ✓MA = $R24\,327$ ✓MCA</p> <p style="text-align: center;"> ✓RT ✓RT</p> <p>= $R24\,327 - (R15\,714 + R8\,613)$ ✓MA = $R0$</p>	<p>1RT correct value 1RT correct value 1MA adding correct values 1MCA simplification</p> <p>1MCA dividing by 18%</p> <p style="text-align: center;">OR / OF</p> <p>1MA calculating 18% 1MCA simplification 1RT correct value 1RT correct value 1MA subtracting correct values</p> <p>(5)</p>	F L3



QUESTION/VRAAG 5 [32 MARKS/PUNTE]			
Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
5.1.1	Cottonseed / <i>Katoensaad</i> ✓✓RT	2RT reading from graph (2)	D L2
5.1.2	Coffee contribution / <i>koffie bydrae</i> ✓RT = $\frac{8,92}{100} \times \$110\,322$ million / miljoen ✓MA = \$9 840,7224 million / <i>miljoen</i> / \$9 840 722 400 ✓CA	1RT reading from graph 1MA multiplying with total amount 1CA simplification (3)	F L2
5.1.3	0 OR 0% OR Impossible / <i>Onmoontlik</i> ✓✓A	2A correct probability (2)	P L2
* 5.1.4	✓RT 25,98% = 32 201 billion / <i>miljard</i> Total amount / <i>totale bedrag</i> = $\frac{100}{25,98} \times \$32\,201$ billion / miljard ✓MA = \$123 945 billion / <i>miljard</i> ✓CA Amount for corn ✓RT = $\frac{11,91}{100} \times \$123\,945$ billion / miljard = \$14 761,890300 billion / <i>miljard</i> ✓CA OR / OF ✓RT 25,98% = \$32 201 billion / <i>miljard</i> ✓MA ✓RT 11,91% = ? 25,98% × ? = \$383 513,91 billion / <i>miljard</i> ✓MA ? = \$14 761,89 billion / <i>miljard</i> Amount for corn = \$14 761,89 billion / <i>miljard</i> ✓CA OR / OF	1RT correct percentage 1MA working with correct % 1CA simplification 1RT correct % 1CA simplification OR / OF 1RT correct percentage 1MA concept of ratio 1RT correct percentage 1MA calculating total amount 1CA simplification OR / OF	F L2



Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
5.1.4	<p>✓RT 25,98% = 32 201 billion / miljard</p> <p>Total amount / totale bedrag</p> <p>✓RT ✓MCA $11,91\% = \frac{11,91}{25,98} \times \\$32\ 201 \text{ billion / miljard}$ ✓MA = \$14 761,890300 billion / miljard ✓CA</p>	<p>1RT correct percentage</p> <p>1RT correct percentage 1MCA correct ratio 1MA calculating total amount</p> <p>1CA simplification</p> <p>(5)</p>	
5.1.5	<p>% contribution of bananas / % bydrae van piesangs</p> <p>$11,15 = \frac{25,98+16,60+11,91+9,33+6,22+B+3,95}{7}$ ✓MA</p> <p>✓MA $11,15 = \frac{73,99+B}{7}$</p> <p>$78,05 = 73,99 + B$ ✓S $B = 78,05 - 73,99$ ✓MCA</p> <p>$B = 4,06$ ✓CA</p> <p style="text-align: center;">OR / OF</p> <p style="text-align: right;">✓MA</p> <p>$25,98 + 16,60 + 11,91 + 9,33 + 6,22 + B + 3,95 = 11,15 \times 7$ ✓MA $73,99 + B = 78,05$ ✓S</p> <p style="text-align: center;">$B = 78,05 - 73,99$ ✓MCA</p> <p style="text-align: center;">$B = 4,06$ ✓CA</p>	<p>1MA concept of mean</p> <p>1MA adding values – 73,99</p> <p>1S simplification 1MCA changing the subject</p> <p>1CA simplification</p> <p style="text-align: center;">OR / OF</p> <p>1MA concept of mean 1MA adding values – 73,99 1S simplification</p> <p>1MCA changing the subject</p> <p>1CA simplification</p> <p>(5)</p>	D L3
5.1.6	118 405 000 000 US\$/V\$. ✓✓A	2A correct number	D L1
5.2.1	Japan ✓✓RT	2RT correct country	F L2
*	ZAR OR/OF South African Rand / Suid Afrikaanse Rand OR/OF Rand ✓✓RT	2RT correct currency	F L2

Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
5.2.3	$\text{€ } 1 = \text{BRL } 5,2379 \checkmark \text{RT}$ $= 5,2379 \times \text{R}3,2026 \checkmark \text{MCA}$ $= \text{R}16,77489 / \text{R}16,7749 / \text{R}16,77 / \text{R}16,775 \checkmark \text{CA}$	1RT correct rate 1MCA multiplying correct values 1CA simplification NPR (min 2 decimal places) AO (3)	F L2
5.2.4	Difference / <i>Verskil</i> (in US\$/V\$) $\checkmark \text{A}$ $= 29,72 \text{ billion/miljard} - 21,62 \text{ billion/miljard}$ $= 8,1 \text{ billion / miljard} \checkmark \text{CA}$ Difference / <i>Verskil</i> (in BRL) $= 8,1 \text{ billion/miljard} \times 4,9642 \checkmark \text{MCA}$ $= 40,21002 \text{ billion / miljard} \checkmark \text{CA}$ Difference / <i>Verskil</i> (in €) $= 40,21002 \div 5,2379$ $= 7,676744497 \text{ billion / miljard}$ $= 7\,676,744497 \text{ million / miljoen} \checkmark \text{CA}$ His statement is VALID / <i>Sy bewering is GELDIG.</i> $\checkmark \text{O}$	1A difference in US\$ 1CA simplification 1MCA multiplying by correct exchange rate 1CA simplification 1CA answer in millions 1O conclusion NPR (6)	F L4
		[32]	
TOTAL/TOTAAL: 150			