



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE/ NASIONALE SENIOR SERTIFIKAAT

GRADE/GRAAD 12

**MATHEMATICAL LITERACY P1 /
WISKUNDIGE GELETTERDHEID V1**

NOVEMBER 2025

MARKING GUIDELINES/NASIENRIGLYNE

MARKS/PUNTE: 150

Symbol/Kode	Explanation/Verduideliking
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
NPU	No penalty for omitting correct unit/Geen penalisasie vir die uitlos van die korrekte eenheid 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 23 pages.
Hierdie nasienriglyne bestaan uit 23 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 or break-down.
- 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 one mark is deducted.
- A conclusion mark can only be given if relevant calculations precedes it (at least a $\frac{1}{3}$ of the mark before conclusion).
- 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 egter op by die tweede berekeningsfout of 'break-down'.
- Wanneer 'n kandidaat aflesings vanaf 'n grafiek, tabel, uitlegplan en kaart neem 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, word een punt afgetrek.
- 'n Gevolgtrekkingspunt kan slegs gegee word indien relevante berekening dit voorgaan (ten minste 'n $\frac{1}{3}$ van die punt voor die gevolgtrekking).
- 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/Oplossing	Explanation/Verduideliking	T&L
1.1.1	Cape Town / Kaapstad ✓✓RT	2RT correct city (2)	F L1 E
1.1.2	Cost per kilogram / Koste per kilogram ✓RT $= R41,41 \div 5$ $= R8,282$ OR $R8,28$ ✓A OR / OF 5kg : R41,41 1kg : ? $= \frac{1}{5} \times R41,41$ ✓RT $= R8,282$ OR $R8,28$ ✓A	1RT R41,41 1A simplification 1RT R41,41 1A simplification (2)	F L1 E

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
1.1.3	Ratio / <i>Verhouding</i> ✓RT ✓RT 165,52 : 169,62 1 : 1,025 ✓A	1RT 165,52 1RT 169,92 1A simplification (3)	F L1 E
* 1.1.4	Total price / <i>Totale prys</i> = R18,07 + R111,59 + R41,41 + R105,24 + R41,91 + R223,23 + R52,38 + R104,96 + R163,31 + R101,94 ✓MA = R964,04 ✓A	1MA adding all values 1A simplification (2)	F L1 E
1.2.1	D ✓✓A	2A correct option (2)	F L1 E
1.2.2	C ✓✓A	2A correct option (2)	F L1 E
1.2.3	F ✓✓A	2A correct option (2)	F L1 E
1.2.4	G ✓✓A	2A correct option (2)	D L1 E
* 1.3.1	Indian / Asian OR / OF ✓✓RT <i>Indiër / Asiaties</i>	2RT correct population (2)	D L1 M
1.3.2	Discrete / <i>Diskrete</i> ✓✓A	2A correct classification (2)	D L1 E
* 1.3.3	Questionnaire / Survey / Census / Interview <i>Vraelys / Opname / Sensus / Onderhoud</i> ✓✓A	2A correct instrument (2)	D L1 E
* 1.3.4	60 604 992 ✓✓RT	2RT correct population total (2)	D L1 E
1.3.5	49 070 809 ✓✓A	2A correct number (2)	D L1 E

Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
1.3.6	Percentage / Persentasie ✓RT $= \frac{2\,242\,589}{29\,624\,882} \times 100\% \quad \checkmark\text{MA}$ $= 7,569950827\% \quad \checkmark\text{A}$	1RT both correct values 1MA percentage calculation 1A simplification (3)	D L1 E
		[30]	

QUESTION/VRAAG 2 [32 MARKS/PUNTE]			
Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
2.1.1	Unemployment Insurance Fund / <i>Werkloosheids-versekeringsfonds</i> ✓✓A	2A correct acronym (2)	F L1 E
2.1.2	SARS / SAID ✓✓A OR / OF South African Revenue Services / <i>Suid-Afrikaanse Inkomstediens</i> ✓✓A	2A correct government institution (2)	F L1 E
2.1.3	Employer Medical Aid contribution / <i>Werkgewer Mediese fonds bydrae</i> = R2 531,54 ÷ 2 ✓MA = R1 265,77 ✓A OR / OF Total Medical Aid contribution / <i>Totale Mediese fonds bydrae</i> = $\frac{3}{2} \times$ R2 531,54 = R3 797,31 Employer Medical Aid contribution / <i>Werkgewer Mediese fonds bydrae</i> = R3 797,31 ÷ 3 ✓MA OR R3 797,31 – R2 531,54 = R1 265,77 ✓A	1MA divide by 2 1A simplification OR / OF 1MA divide by 3 1A simplification AO (2)	F L2 M
2.1.4(a)	A = R6 298 ✓✓RT	2RT correct value (2)	F L2 M

Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
2.1.4(b)	<p>B = Gross salary – UIF – PAYE Tax – medical aid = <i>Bruto salaris</i> – <i>WVF</i> – <i>LBS Belasting</i> – <i>mediese fonds</i></p> <p>= R35 000 – R177,12 – R6 298 – R2 531,54 ✓MCA</p> <p>= R25 993,34 ✓CA</p> <p style="text-align: center;">OR / OF</p> <p>B = R35 000 – (R177,12 + R6 298 + R2 531,54) = R35 000 – R9 006,66 ✓MCA</p> <p>= R25 993,34 ✓CA</p>	<p>CA from Question 2.1.4 (a)</p> <p>1MCA subtracting values</p> <p>1CA simplification</p> <p style="text-align: center;">OR / OF</p> <p>1MCA subtracting total value</p> <p>1CA simplification</p> <p>AO</p> <p style="text-align: right;">(2)</p>	<p>F</p> <p>L2</p> <p>M</p>

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
2.1.4(c)	<p>Annual taxable income / <i>Jaarlikse belasbare inkomste</i></p> <p>$= R35\ 000 \times 12$ $= R420\ 000$ ✓A</p> <p>Annual tax payable before rebates / <i>Jaarlikse belasting betaalbaar voor kortings</i></p> <p>✓MCA $= R77\ 362 + 31\% \text{ of the taxable income above } R370\ 500$ $= R77\ 362 + 31\% (R420\ 000 - R370\ 500)$ $= R77\ 362 + (31\% \times R49\ 500)$ $= R77\ 362 + R15\ 345$ $= R92\ 707,00$ ✓CA</p> <p>Annual tax payable after rebates/<i>Jaarlikse belasting betaalbaar na kortings</i></p> <p>✓RT $= R92\ 707,00 - R17\ 235 - (R364 \times 12)$ $= R92\ 707,00 - R17\ 235 - R4\ 368$ ✓MA $= R71\ 104,00$ ✓CA</p> <p>Monthly tax payable / <i>Maandelikse belasting betaalbaar</i> OR / OF Annual tax payable / <i>Jaarlikse belasting betaalbaar</i></p> <p>$= R71\ 104,00 \div 12$ $= R6\ 298 \times 12$ $= R5\ 925,33$ $= R75\ 576$ ✓CA</p> <p>Her statement is VALID / <i>Haar bewering is GELDIG.</i> ✓O</p>	<p>1A annual taxable income</p> <p>1MCA correct tax bracket</p> <p>1CA simplification</p> <p>1RT correct tax rebate</p> <p>1MA subtracting MTC</p> <p>1CA simplification</p> <p>1CA tax amount CA from Question 2.1.4 (a)</p> <p>1O conclusion</p>	<p>F L4 D</p> <p>(8)</p>

Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
2.2.1	<p>% paid / % betaal</p> $= \frac{R4,20}{R14,20} \times 100\% \quad \checkmark \text{MA}$ $= 29,58\% \quad \checkmark \text{A}$ <p>% savings / % besparing</p> $= 100\% - 29,58\%$ $= 70,42\% \quad \checkmark \text{CA}$ <p style="text-align: center;">OR / OF</p> <p>% savings / % besparing</p> $= \frac{R14,20 - R4,20}{R14,20} \times 100\% \quad \checkmark \text{MA}$ $= 70,42\% \quad \checkmark \text{CA}$	<p>1MA dividing correct values</p> <p>1A simplification</p> <p>1CA simplification</p> <p style="text-align: center;">OR / OF</p> <p>1MA subtracting correct values</p> <p>1A correct denominator</p> <p>1CA simplification</p> <p style="text-align: right;">(3)</p>	F L2 M

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
2.2.2	<p>Cost per trip / <i>Koste per rit</i></p> $\begin{aligned} &\checkmark \text{RT} \\ &= \frac{\text{R}465,60}{44} \checkmark \text{MA} \\ &= \text{R}10,58 \checkmark \text{CA} \end{aligned}$ <p>Saving per trip / <i>Besparing per rit</i></p> $\begin{aligned} &= \text{R}14,20 - \text{R}10,58 \checkmark \text{MCA} \\ &= \text{R}3,62 \checkmark \text{CA} \end{aligned}$ <p style="text-align: center;">OR/OF</p> <p>Total cost / <i>Totale koste</i></p> $\begin{aligned} &\checkmark \text{RT} \\ &= \text{R}14,20 \times 44 \\ &= \text{R}624,80 \end{aligned}$ <p>Difference / <i>Verskil</i></p> $\begin{aligned} &= \text{R}624,80 - \text{R}465,60 \checkmark \text{MCA} \\ &= \text{R}159,20 \checkmark \text{CA} \end{aligned}$ <p>Saving per trip / <i>Besparing per rit</i></p> $\begin{aligned} &= \frac{\text{R}159,20}{44} \checkmark \text{MA} \\ &= \text{R}3,62 \checkmark \text{CA} \end{aligned}$	<p>1RT R465,60</p> <p>1MA dividing by 44</p> <p>1CA simplification</p> <p>1MCA subtracting values</p> <p>1CA simplification</p> <p style="text-align: center;">OR/OF</p> <p>1RT R14,20</p> <p>1MCA subtracting values</p> <p>1CA simplification</p> <p>1MA dividing by 44</p> <p>1CA simplification</p> <p style="text-align: right;">(5)</p>	<p>F L2 D</p>
2.2.3	<p>Probability / <i>Waarskynlikheid</i></p> $= 0 / 0\% / \text{impossible} / \text{onmoontlik} / \frac{0}{4} \checkmark \checkmark \text{A}$	<p>2A correct probability</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p>Accept: $= \frac{0}{3}$</p> </div> <p style="text-align: right;">(2)</p>	<p>P L2 E</p>

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
* 2.2.4	<p>Package amount left / <i>Pakketbedrag oor</i></p> <p>= R416,30 – R35,00 ✓RT</p> <p>= R381,30 ✓A</p> <p>Number of weekly trips / <i>Aantal weeklikse ritte</i></p> <p>✓MCA</p> <p>= R381,30 ÷ R127,10</p> <p>= 3 ✓CA</p> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 10px 0;"> OR R127,10 × 3 = R381,30 </div> <p style="text-align: center;">OR / OF</p> <p>Package amount left / <i>Pakketbedrag oor</i></p> <p>✓RT</p> <p>= R416,30 – R127,10 – R127,10 – R127,10 ✓MA</p> <p>= R35 ✓A</p> <p>Number of weekly trips / <i>Aantal weeklikse ritte</i></p> <p>= 3 ✓CA</p>	<p>1RT R35</p> <p>1A simplification</p> <p>1MCA dividing values</p> <p>1CA simplification</p> <p style="text-align: center;">OR / OF</p> <p>1RT R127,10</p> <p>1MA subtracting values</p> <p>1A simplification</p> <p>1CA simplification</p> <p style="text-align: right;">(4)</p>	F L3 M
		[32]	

QUESTION/VRAAG 3 [30 MARKS/PUNTE]

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
* 3.1.1	Median / <i>Mediaan</i> $= 43\% \quad 46\% \quad 51\% \quad 54\% \quad 56\% \quad 57\% \quad \checkmark\text{MA}$ $\checkmark\text{RT}$ $= \frac{51\% + 54\%}{2} \checkmark\text{MA}$ $= 52,5\% \quad \checkmark\text{CA}$	1MA arranging values 1RT 51% and 54% 1MA concept of median 1CA simplification AO (4)	D L2 M
3.1.2	Probability / <i>Waarskynlikheid</i> $\checkmark\text{A}$ $= \frac{4}{6} \checkmark\text{A}$ $= 0,67 \quad \checkmark\text{CA}$	1A numerator 1A denominator 1CA simplification (3)	P L2 M
3.1.3(a)	Total number of users / <i>Totale aantal gebruikers</i> $= 405\,000\,000 \times \frac{100}{54} \quad \checkmark\text{MA} \quad \boxed{\div 54\% \text{ OR } \div 0,54}$ $= 750\,000\,000 / 750 \text{ million} / 750 \text{ miljoen} \quad \checkmark\text{CA}$ OR / OF Number of male users / <i>Aantal manlike gebruikers</i> $= \frac{46}{54} \times 405\,000\,000$ $= 345\,000\,000 \quad \checkmark\text{A}$ Total number of users / <i>Totale aantal gebruikers</i> $= 405\,000\,000 + 345\,000\,000$ $= 750\,000\,000 / 750 \text{ million} / 750 \text{ miljoen} \quad \checkmark\text{CA}$	1MA percentage calculation 1CA simplification OR / OF 1A 345 000 000 1CA simplification AO (2)	D L2 M

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
3.1.3(b)	<p>Male users / <i>Manlike gebruikers</i></p> $= 750\,000\,000 \times \frac{46}{100} \quad \checkmark \text{MCA}$ $= 345\,000\,000 \quad \checkmark \text{CA}$ <p>Difference / <i>Verskil</i></p> $= 405\,000\,000 - 345\,000\,000$ $= 60\,000\,000 \quad \checkmark \text{CA}$ <p>Her statement is NOT VALID / <i>Haar bewering is NIE GELDIG NIE.</i> $\checkmark \text{O}$</p> <p style="text-align: center;">OR / OF</p> <p>Based on the answer of Question 3.1.3 (a) / <i>Gebaseer op die antwoord in 3.1.3 (a)</i></p> $= 405\,000\,000 - 345\,000\,000 \quad \checkmark \checkmark \text{MCA}$ $= 60\,000\,000 \quad \checkmark \text{CA}$ <p>Her statement is NOT VALID / <i>Haar bewering is NIE GELDIG NIE.</i> $\checkmark \text{O}$</p> <p style="text-align: center;">OR / OF</p> <p>Percentage difference / <i>Presentasie verskil</i></p> $= 54\% - 46\%$ $= 8\% \quad \checkmark \text{CA}$ $= 8\% \times 750 \text{ million / miljoen} \quad \checkmark \text{MCA}$ $= 60\,000\,000 \quad \checkmark \text{CA}$ <p>Her statement is NOT VALID / <i>Haar bewering is NIE GELDIG NIE.</i> $\checkmark \text{O}$</p>	<p>CA from Question 3.1.3 (a)</p> <p>1MCA calculating 46%</p> <p>1CA simplification</p> <p>1CA difference</p> <p>1O conclusion</p> <p style="text-align: center;">OR / OF</p> <p>2MCA difference</p> <p>1CA simplification</p> <p>1O conclusion</p> <p style="text-align: center;">OR / OF</p> <p>1CA percentage difference</p> <p>1MCA calculating 8%</p> <p>1CA simplification</p> <p>1O conclusion</p>	<p>D</p> <p>L4</p> <p>M</p> <p style="text-align: right;">(4)</p>

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
* 3.2.1	Stacked bar graph / <i>Stapelstaafgrafiek</i> ✓✓A OR / OF Compound bar graph / <i>Saamgestelde staafgrafiek</i> ✓✓A	2A correct graph (2)	D L1 E
3.2.2(a)	Limpopo (LP) and North West (NW) / <i>Limpopo (LP) en Noordwes (NW)</i> ✓✓A OR/OF Mpumalanga (MP) and Eastern Cape (EC) / <i>Mpumalanga (MP) en Oos-Kaap (OK)</i> ✓✓A	2A correct pair of provinces OR/OF 2A correct pair of provinces (2)	D L2 M
3.2.2(b)	Number of devices in Limpopo 2022 / <i>Aantal toestelle in Limpopo 2022</i> ✓RT = 11 000 000 – 4 000 000 ✓MA = 7 000 000 OR 7 million / <i>miljoen</i> ✓CA OR / OF Number of devices in Limpopo 2022 / <i>Aantal toestelle in Limpopo 2022</i> ✓RT = 18 500 000 – 4 000 000 – 7 500 000 ✓MA = 7 000 000 OR 7 million / <i>miljoen</i> ✓CA	1RT both correct values 1MA subtracting values 1CA simplification OR / OF 1RT both correct values 1MA subtracting values 1CA simplification AO (3)	D L2 M
3.2.2(c)	Provincial range 2021 / <i>Provinsiale omvang 2021</i> Range = Highest Value – Lowest Value ✓RT ✓RT Range = 16 000 000 – 1 000 000 ✓MA = 15 000 000 OR 15 million / <i>miljoen</i> ✓CA	1RT highest value 1RT lowest value 1MA concept of range 1CA simplification AO (4)	D L3 M

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
3.2.3	<p>1A KwaZulu-Natal End point / Eindpunt: 31 500 000 1A KwaZulu-Natal complete stacked bar graph / Voltooi stapel-staafgrafiek</p> <p>1A Mpumalanga End Point / Eindpunt: 14 000 000 1A Mpumalanga complete stacked bar graph / Voltooi stapel-staafgrafiek</p> <p>(4)</p>		D L3 D
3.2.4	<p>Probability/Waarskynlikheid</p> $= \frac{2}{9} \checkmark A$	<p>1A numerator 1A denominator</p> <p>(2)</p>	P L2 E
		[30]	

QUESTION/VRAAG 4 [28 MARKS/PUNTE]			
Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
* 4.1.1	$\begin{array}{l} \checkmark A \quad \checkmark A \\ \text{Cost} = R1\,000 + (R500 \times n) \\ \text{Koste} = R1\,000 + (R500 \times n) \end{array}$ <p style="text-align: center;">OR / OF</p> $\begin{array}{l} \checkmark A \quad \checkmark A \\ \text{Cost} = R1\,000 + (R500 \times \text{number of days}) \\ \text{Koste} = R1\,000 + (R500 \times \text{aantal dae}) \end{array}$	1A deposit 1A variable cost <p style="text-align: center;">OR / OF</p> 1A deposit 1A variable cost (2)	F L2 M
4.1.2	$\begin{array}{l} \checkmark A \\ \mathbf{B} = R1\,000 + (R350 \times 5) \checkmark MA \\ \\ = R2\,750 \checkmark CA \end{array}$ <p style="text-align: center;">OR / OF</p> $\begin{array}{l} \checkmark A \\ \mathbf{B} = R2\,050 + R350 + R350 \checkmark MA \\ \\ = R2\,050 + R700 \\ \\ = R2\,750 \checkmark CA \end{array}$	1MA multiplying values 1A adding R1 000 1CA simplification <p style="text-align: center;">OR / OF</p> 1A R2 050 1MA adding values 1CA simplification AO (3)	F L2 M

Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
4.1.3 (a)	<p>Income for both trailers / <i>Inkomste vir beide waentjies</i> ✓MA $= (R1\ 350 \times 2) + (R1\ 500 \times 6)$ $= R2\ 700 + R9\ 000$ ✓A $= R11\ 700$ ✓CA</p> <p>Total income after refund / <i>Totale inkomste na terugbetaling</i> $= R11\ 700 - R7\ 000$ ✓MCA $= R4\ 700$ ✓CA</p> <p>Statement NOT VALID / <i>Bewering is NIE GELDIG NIE.</i> ✓O</p> <p style="text-align: center;">OF/OR</p> <p>Income for small trailer / <i>Inkomste vir klein waentjie</i> $= R350 \times 2$ ✓MA $= R700$ ✓CA</p> <p>Income for large trailer / <i>Inkomste vir groot waentjie</i> $= R500 \times 6$ $= R3\ 000$ ✓A</p> <p>Total income after refund / <i>Totale inkomste na terugbetaling</i> $= R700 + R3\ 000 + R1\ 000$ ✓MCA $= R4\ 700$ ✓CA</p> <p>Statement NOT VALID / <i>Bewering is NIE GELDIG NIE.</i> ✓O</p> <p style="text-align: center;">OF / OR</p> <p>Total cost for all trailers / <i>Totale koste vir alle waentjies</i> ✓MA $= (R1\ 000 \times 8) + R700 + R3\ 000$ ✓MA $= R11\ 700$ ✓CA</p> <p>Total income after refund / <i>Totale inkomste na terugbetaling</i> $= R11\ 700 - R7\ 000$ ✓MCA $= R4\ 700$ ✓CA</p> <p>Statement NOT VALID / <i>Bewering is NIE GELDIG NIE.</i> ✓O</p>	<p>1MA multiplying values 1A simplification 1CA simplification</p> <p>1MCA subtracting R7 000 1CA simplification</p> <p>1O conclusion</p> <p style="text-align: center;">OF/OR</p> <p>1MA multiplying values 1CA simplification</p> <p>1A simplification</p> <p>1MCA adding R1 000 1CA simplification</p> <p>1O conclusion</p> <p style="text-align: center;">OF / OR</p> <p>1MA multiplying values 1MA adding values 1CA simplification</p> <p>1MCA subtracting R7 000 1CA simplification</p> <p>1O conclusion</p>	<p>F L4 M</p>

(6)

Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
* 4.1.3(b)	<p>Labour cost / <i>Arbeidskoste</i></p> <p>$= R480 \times 2$ ✓MA</p> <p>$= R960$ ✓CA</p> <p>Total cost / <i>Totale koste</i></p> <p>$= R960 + R242$</p> <p>$= R1\ 202$ ✓CA</p> <p>The deposit of R1 000 will not be sufficient / <i>Die deposito van R1 000 sal nie voldoende wees nie.</i> ✓O</p> <p style="text-align: center;">OR / OF</p> <p>Remaining amount / <i>Oorblywende bedrag</i></p> <p style="text-align: center;">✓A</p> <p>$= R1\ 000 - R480 - R480 - R242$ ✓MCA</p> <p>$= - R202$ ✓CA</p> <p>The deposit of R1 000 will not be sufficient / <i>Die deposito van R1 000 sal nie voldoende wees nie.</i> ✓O</p>	<p>1MA multiplying by 2</p> <p>1CA simplification</p> <p>1CA simplification</p> <p>1O conclusion</p> <p style="text-align: center;">OR / OF</p> <p>1A R480</p> <p>1MCA subtracting values</p> <p>1CA simplification</p> <p>1O conclusion</p> <p style="text-align: right;">(4)</p>	F L4 M
4.2.1	<p>Value of V / <i>Waarde van V</i></p> <p>$= 25\ 593 \div 39\ 279$ ✓MA</p> <p>$= 0,651569541$ ✓CA</p> <p>$= 0,652$ ✓R</p> <p style="text-align: center;">OR / OF</p> <p>39 279 Vendors : R25 593 million</p> <p>1 Vendor : ?</p> <p>$= \frac{1}{39\ 279} \times 25\ 593$ ✓MA</p> <p>$= 0,651569541$ ✓CA</p> <p>$= 0,652$ ✓R</p>	<p>1MA dividing values</p> <p>1CA simplification</p> <p>1R correct rounding</p> <p style="text-align: center;">OR / OF</p> <p>1MA dividing values</p> <p>1CA simplification</p> <p>1R correct rounding</p> <p>AO</p> <p style="text-align: right;">(3)</p>	F L2 M

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
* 4.2.2	Manufacturing / Vervaardiging ✓✓A	2A correct sector (2)	D L1 E
* 4.2.3	Mean in R million / Gemiddeld in R miljoen: ✓MA $= \frac{(221322 + 73893 + 76826 + 25593 + 29418 + 32458 + 22141)}{7}$ $= \frac{481\,651}{7} \text{ ✓MA}$ $= 68\,807,29 \text{ ✓CA}$	1MA adding values 1MA concept of mean 1CA simplify NPU (3)	D L2 M
4.2.4(a)	$2\,658 \quad 15\,258 \quad 33\,825 \quad 39\,279 \quad 46\,901 \quad 86\,610 \quad 197\,178$ $\text{✓RT} \quad \text{✓A}$	1RT all correct values 1A ascending order (2)	D L1 E
4.2.4(b)	Inter-quartile range (IQR) = Q3 – Q1 $2\,658 \quad \mathbf{15\,258} \quad 33\,825 \quad \mathbf{(39\,279)} \quad 46\,901 \quad 86\,610 \quad 197\,178$ $Q1 = 15\,258 \text{ ✓A}$ $IQR = 86\,610 - 15\,258 \text{ ✓MCA}$ $IQR = 71\,352 \text{ ✓CA}$	CA from Question 4.2.4a 1A 15 258 1MCA subtracting values 1CA simplification (3)	D L3 E
		[28]	

QUESTION/VRAAG 5 [30 MARKS/PUNTE]			
Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
5.1.1	Total maintenance cover for option B / <i>Totale onderhoudsdekking vir opsie B</i> \checkmark RT $= £24 \times 48$ $= £1\,152$ \checkmark CA	1RT £24 1CA simplification AO (2)	F L1 E
5.1.2(a)	$\checkmark\checkmark$ O The deposit and first-month instalment is much lower / <i>Die deposito en paaiement vir die eerste maand is heelwat laer.</i> OR / OF Option A has a smaller deposit / <i>Opsie A het 'n kleiner deposito.</i> $\checkmark\checkmark$ O	2O reason (2)	F L4 E
5.1.2(b)	Total price excluding VAT / <i>Totale prys BTW uitgesluit</i> \checkmark RT \checkmark A \checkmark A $£1\,173,66 + (£195,61 \times 47) + (£25,36 \times 48)$ $= £1\,173,66 + £9\,193,67 + £1\,217,28$ \checkmark MCA $= £11\,584,61$ excl VAT \checkmark CA Total price including VAT / <i>Totale prys BTW ingesluit</i> \checkmark MCA $= £11\,584,61 \times \frac{120}{100}$ $£11\,584,61 \times 1,2$ $= £13\,901,53$ \checkmark CA OR / OF	1RT correct values 1A 47 instalments 1A 48 insurance payments 1MCA adding all values 1CA total excl VAT 1MCA calculating VAT 1CA total including VAT OR / OF	F L3 D

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
5.1.2(b)	<p>Total price excluding VAT / <i>Totale prys BTW uitgesluit</i></p> <p>✓RT ✓MA ✓MA</p> $£1\ 173,66 + (£195,61 \times 47) + (£25,36 \times 48)$ $= £1\ 173,66 + £9\ 193,67 + £1\ 217,28 \quad \checkmark \text{MCA}$ $= £11\ 584,61 \text{ excl VAT} \quad \checkmark \text{CA}$ <p>VAT amount / <i>BTW bedrag</i></p> $= £11\ 584,61 \times \frac{20}{100} \quad \checkmark \text{MCA}$ $= £2\ 316,92$ <p>Total price including VAT / <i>Totale prys BTW ingesluit</i></p> $= £11\ 584,61 + £2\ 316,92$ $= £13\ 901,53 \quad \checkmark \text{CA}$ <p style="text-align: center;">OR / OF</p> <p>Deposit and first instalment incl VAT / <i>Deposito en eerste paalement BTW ingesl</i></p> <p>✓RT ✓MA</p> $= £1\ 173,66 \times 1,2 \quad \checkmark \text{MA}$ $= £1\ 408,39 \quad \checkmark \text{CA}$ <p>Balance of instalments incl VAT / <i>Balans van paalemente BTW ingesl</i></p> $= £195,61 \times 1,2 \times 47 \quad \checkmark \text{A}$ $= £11\ 032,40$ <p>Maintenance amount incl VAT / <i>Instandhoudingskoste BTW ingesl</i></p> $= £25,36 \times 1,2 \times 48 \quad \checkmark \text{A}$ $= £1\ 460,74$ <p>Total / <i>Totaal</i></p> $= £1\ 408,39 + £11\ 032,40 + £1\ 460,74 \quad \checkmark \text{MCA}$ $= £13\ 901,53 \quad \checkmark \text{CA}$	<p>1RT £1 173,66</p> <p>1MA 47 instalments</p> <p>1MA 48 insurance payments</p> <p>1MCA adding all values</p> <p>1CA total excl VAT</p> <p>1MCA calculating VAT</p> <p>1CA total including VAT</p> <p style="text-align: center;">OR / OF</p> <p>1RT £1 173,66</p> <p>1MA calculating VAT</p> <p>1CA total incl VAT</p> <p>1A 47 instalments</p> <p>1A 48 insurance payments</p> <p>1MCA adding all values</p> <p>1CA total including VAT</p> <p style="text-align: right;">(7)</p>	F L3 D

Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
* 5.1.3	<p>Deposit and first month instalment / <i>Deposito en eerste maand se paaient</i></p> <p>= £1 173,66 ✓RT</p> <p>Amount in rand / <i>Bedrag in rand</i></p> <p>= $\frac{£1\,173,66}{0,043}$ ✓MA</p> <p>= R27 294,4186</p> <p>= R27 294,42 ✓CA</p> <p>Amount in CHF / <i>Bedrag in CHF</i></p> <div style="display: flex; align-items: center;"> <div style="flex: 1;"> <p>= $\frac{R27\,294,42}{R20,48}$ ✓MCA</p> <p>= CHF 1 332,74 ✓CA</p> </div> <div style="border: 1px solid black; padding: 5px; margin-left: 10px; text-align: center;"> <p>OR / OF</p> <p>= R27 294,42 × 0,049</p> <p>= CHF 1 337,43</p> </div> </div> <p style="text-align: center;">OR/OF</p> <p>Deposit and first month instalment / <i>Deposito en eerste maand se paaient</i></p> <p>= £1 173,66 ✓RT</p> <p>Amount in rand / <i>Bedrag in rand</i></p> <p>= £1 173,66 × R23,20 ✓MA</p> <p>= R27 228,91 ✓CA</p> <p>Amount in CHF / <i>Bedrag in CHF</i></p> <div style="display: flex; align-items: center;"> <div style="flex: 1;"> <p>= $\frac{R27\,228,91}{R20,48}$ ✓MCA</p> <p>= CHF 1 329,54 ✓CA</p> </div> <div style="border: 1px solid black; padding: 5px; margin-left: 10px; text-align: center;"> <p>OR / OF</p> <p>= R27 228,91 × 0,049</p> <p>= CHF 1 334,22</p> </div> </div> <p style="text-align: center;">OR/OF</p>	<p>1RT £1 173,66</p> <p>1MA exchange rate</p> <p>1CA simplification</p> <p>1MCA exchange rate</p> <p>1CA simplification</p> <p style="text-align: center;">OR/OF</p> <p>1RT £1 173,66</p> <p>1MA exchange rate</p> <p>1CA simplification</p> <p>1MCA exchange rate</p> <p>1CA simplification</p> <p style="text-align: center;">OR/OF</p>	<p>F</p> <p>L3</p> <p>F</p>

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
* 5.1.3	<p>Deposit and first month instalment / <i>Deposito en eerste maand se paaiement</i></p> <p>= £1 173,66 ✓RT</p> <p>Conversion rate £ to CHF / <i>Omskakelingsfaktor £ tot CHF</i></p> <p>£1 = R23,20 ✓MA CHF 1 = R20,48</p> <p>£1 = CHF 1,1328125 ✓CA</p> <p>£1 173,66 = 1 173,66 × 1,1328125 ✓MCA</p> <p>= CHF 1 329,54 ✓CA</p>	<p>1RT £1 173,66</p> <p>1MA identifying values</p> <p>1CA simplification</p> <p>1MCA exchange rate</p> <p>1CA simplification</p> <p>(5)</p>	F L3 F
5.2.1	<p>Inflation rate for September / <i>Inflasiekoers vir September</i></p> <p>$2,1 = \frac{2,2 + 2,2 + 2,3 + C}{4}$ ✓MA</p> <p>$2,1 = \frac{6,7 + C}{4}$ ✓MA</p> <p>$2,1 \times 4 = 6,7 + C$</p> <p>$C = 8,4\% - 6,7\%$</p> <p>$= 1,7\%$ ✓CA</p> <p style="text-align: center;">OR / OF</p> <p>Sum of 4 values / <i>Som van al die waardes</i></p> <p>$= 2,1 \times 4$ ✓MA $= 8,4\%$</p> <p>Value of C / <i>Waarde van C</i></p> <p>$C = 8,4\% - 6,7\%$ ✓MA</p> <p>$= 1,7\%$ ✓CA</p>	<p>1MA concept of mean</p> <p>1MA adding all values</p> <p>1CA simplification</p> <p style="text-align: center;">OR / OF</p> <p>1MA multiply by 4</p> <p>1MA subtracting values</p> <p>1CA simplification AO</p> <p>(3)</p>	F L3 D

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
* 5.2.2	<p>Difference / Verskil</p> <p>✓A ✓RT</p> <p>$= (£1,45 - £1,42) \times 40 \ell$ ✓MA</p> <p>$= £1,20$ ✓CA</p> <p>Her statement is NOT VALID / Haar bewering is NIE GELDIG NIE. ✓O</p> <p style="text-align: center;">OR / OF</p> <p>✓A ✓RT</p> <p>$= (£1,45 \times 40) - (£1,42 \times 40)$</p> <p>$= £58 - £56,80$ ✓MA</p> <p>$= £1,20$ ✓CA</p> <p>Her statement is NOT VALID / Haar bewering is NIE GELDIG NIE. ✓O</p>	<p>1A 1,45</p> <p>1RT (from graph: 1,41–1,43)</p> <p>1MA multiply difference with capacity</p> <p>1CA simplification</p> <p>1O conclusion</p> <p style="text-align: center;">OR / OF</p> <p>1A 1,45</p> <p>1RT (from graph: 1,41–1,43)</p> <p>1MA subtracting full tank</p> <p>1CA simplification</p> <p>1O conclusion</p> <p style="text-align: right;">(5)</p>	F L4 M
5.2.3	<p>Petrol price for June / Petrolprys vir Junie</p> <p>✓RT</p> <p>$= £1,45 \times \frac{100}{102,2}$ ✓MA</p> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> $= \frac{£1,45}{1,022}$ </div> <p>$= £1,42$ ✓CA</p>	<p>CA from Question 5.2.2</p> <p>1RT £1,45</p> <p>1MA percentage calculation</p> <p>1CA simplification</p> <p>AO</p> <p style="text-align: right;">(3)</p>	F L3 M
* 5.2.4	<p>It remains the same (constant) for July to August / ✓A Dit bly dieselfde (konstant) vanaf Julie tot Augustus.</p> <p>It decreases from August to September / ✓A Dit neem af vanaf Augustus tot September.</p> <p>It increases from September to October / ✓A Dit neem toe vanaf September tot Oktober.</p>	<p>1A remains the same</p> <p>(CA from Question 5.2.1)</p> <p>1A decreases</p> <p>1A increases</p> <p style="text-align: right;">(3)</p>	D L4 E
		[30]	
		TOTAL / TOTAAL: 150	