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Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE/ NASIONALE SENIOR SERTIFIKAAT

GRADE/GRAAD 12

**MATHEMATICAL LITERACY P1/
WISKUNDIGE GELETTERDHEID V1**

NOVEMBER 2023

MARKING GUIDELINES/NASIENRIGLYNE

MARKS/PUNTE: 150

Symbol/Kode	Explanation/Verduideliking
MA	Method with accuracy/Metode met akkuraatheid
MCA	Method with consistent accuracy/Metode met volgehoue 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./Penalisering, bv. vir geen eenhede, verkeerde afronding, ens.
NPR	No penalty for correct rounding/Geen penalisering vir korrekte afronding nie
NPU	No penalty for omitting unit, but wrong unit is penalised/Geen penaliseringe indien die eenheid uitgelos is nie, maar wel indien 'n verkeerde eenheid gebruik word.
AO	Answer only/Slegs antwoord

**These marking guidelines consist of 16 pages and 3 pages of notes.
Hierdie nasienriglyne bestaan uit 16 bladsye en 3 bladsye met notas.**

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 one mark is deducted.
- A conclusion mark can only be given if relevant calculations precedes it.
- No penalty for rounding (NPR) if the first decimal is correct.

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 nasiënriglyne 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, word een punt afgetrek.*
- *'n Gevolgtrekkingspunt kan slegs gegee word indien relevante berekeninge dit voorgaan.*
- *Geen penalisering vir ronding (NPR) as die eerste desimaal korrek is nie.*

QUESTION/VRAAG 1 [29 MARKS/PUNTE] ANSWER ONLY FULL MARKS			
Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
1.1.1	Discrete / <i>Diskreet</i> ✓✓A	2A correct classification (2)	D L1 E
1.1.2	Twelve million nine hundred and twenty nine thousand nine hundred and thirty nine / <i>Twaalf miljoen negehonderd nege en twintig duisend negehonderd nege en dertig</i> ✓✓A	2A correct wording (2)	D L1 E
* 1.1.3	B ✓✓RT	2RT correct session (2)	D L1 E
1.1.4	Increase / <i>Verhoging</i> = 88 706 141 – 88 704 344 ✓RT = 1 797 ✓A OR / OF (88 705 985 – 88 704 344) + (88 706 141 – 88 705 985) ✓RT = 1 641 + 156 = 1 797 ✓A	1RT correct values 1A number of tracks OR / OF 1RT correct values 1A number of tracks (2)	D L1 E



Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
* 1.1.5	\checkmark RT $690\ 160 : 8\ 120\ 031\ \checkmark$ A $= 1 : 11,77\ \checkmark$ A	1RT correct values 1A values in correct order 1A simplification Accept: 11,765 / 11,8 / 12 (3)	D L1 E
1.2.1	VAT / BTW $\checkmark\checkmark$ A	2A correct acronym (2)	F L1 E
* 1.2.2	Total price / Totale prys \checkmark RT $= R18,05 + R41,84 + R12,16 + R8,33 + R0,11 +$ $R6,98 + R11,53\ \checkmark$ MA $= R99,00\ \checkmark$ A	1RT all values 1MA adding all values 1A simplification (3)	F L1 E
* 1.2.3	\checkmark RT $\% \text{ amount} = \frac{R8,33}{R41,84} \times 100\%$ \checkmark RT $= 19,91\%\ \checkmark$ A	1RT correct value 1RT correct value 1A simplification NPR (3)	F L1 M
1.2.4	Amount / Bedrag $= 210\ 000 \times R8,33\ \checkmark$ MA $= R1\ 749\ 300\ \checkmark$ A	1MA multiplying correct values 1A simplification (2)	F L1 E
* 1.2.5	Number of CD's / Aantal CD's $= \frac{R16,50}{R0,11}\ \checkmark$ MA $= 150\ \checkmark$ A	1MA dividing by R0,11 1A simplification (2)	F L1 E
* 1.3.1	Gross monthly income is the monthly income before deductions / <i>Bruto maandelikse inkomste is die maandelikse inkomste voor aftrekkings.</i> $\checkmark\checkmark$ A	2A explanation (2)	F L1 E
* 1.3.2	Price of a vehicle / Prys van voertuig $\checkmark\checkmark$ RT $= R1\ 000\ 000,00 / R1\ \text{million} / 1\ \text{million rand}$ $= R1\ 000\ 000,00 / R1\ \text{miljoen} / 1\ \text{miljoen rand}$	2RT correct price (2)	F L1 E



Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
1.3.3	Monthly repayment / <i>Maandelikse terugbetaling</i> = R41 610,78 ✓RT = R42 000 ✓R	RT correct value 1R rounding	F L1 M
			(2)
			[29]



QUESTION/VRAAG 2 [40 MARKS/PUNTE]			
Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
2.1.1	Elite cheque account / <i>Elite Tjekrekening</i> ✓✓RT	2RT correct account Accept: Cheque account (2)	F L1 E
* 2.1.2	Total fees / <i>Totale fooie</i> ✓RT $R1,60 + R69,00 + R110,00$ ✓RT $= R180,60$ ✓CA	1RT two correct values 1RT third correct value 1CA simplification AO (3)	F L1 E
* 2.1.3	Net salary (A) / <i>Netto salaris (A)</i> ✓RT $= R10\,078,41 - R2\,100,35$ ✓MA $= R7\,978,06$ ✓CA Portion of Net salary / <i>Gedeelte van Netto salaris</i> $= R7\,978,06 \div 4 \times 0,25 \times \frac{1}{4}$ ✓MCA $= R1\,994,52$ ✓CA Total insurance / <i>Totale versekering</i> $R940,39 + R940,39$ $= R1\,880,78$ ✓A $R1\,994,52 > R1\,880,78$ His statement is INCORRECT / <i>Sy bewering is VERKEERD.</i> ✓O OR / OF	1RT both correct values 1MA subtracting values 1CA simplification 1MCA dividing by 4 1CA simplification 1A total monthly insurance 1O conclusion OR / OF	F L4 M



Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
* 2.1.3	<p>Net salary (A) / <i>Netto salaris (A)</i> \checkmarkRT $= R10\,078,41 - R2\,100,35 \checkmark$MA $= R7\,978,06 \checkmark$CA</p> <p>Total insurance / <i>Totale versekering</i></p> $= \frac{R1\,880,78 \checkmark}{R7\,978,06 \checkmark} \times 100\%$ $= 23,57\% \checkmark$ <p>23,57% < 25%</p> <p>His statement is INCORRECT / <i>Sy bewering is VERKEERD.</i> \checkmarkO</p> <p style="text-align: center;">OR / OF</p> <p>Net salary (A) / <i>Netto salaris (A)</i> \checkmarkRT $= R10\,078,41 - R2\,100,35 \checkmark$MA $= R7\,978,06 \checkmark$CA</p> <p>Total insurance / <i>Totale versekering</i></p> $R940,39 + R940,39$ $= R1\,880,78 \checkmark$ $R1\,880,78 \times 4 \checkmark$ $= R7\,523,12 \checkmark$ <p>$R7\,978,06 > R7\,523,12$</p> <p>His statement is INCORRECT / <i>Sy bewering is VERKEERD.</i> \checkmarkO</p>	<p>1RT both correct values 1MA subtracting values 1CA simplification</p> <p>1A numerator 1MCA denominator 1CA simplification</p> <p>1O conclusion</p> <p style="text-align: center;">OR / OF</p> <p>1RT both correct values 1MA subtracting values 1CA simplification</p> <p>1A total monthly insurance 1MCA multiplying by 4 1CA simplification</p> <p>1O conclusion</p>	(7)



Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
* 2.1.4	<p>Amount excluding VAT / Bedrag <i>BTW</i> uitgesluit</p> <p>✓A $= \frac{100}{115} \times \frac{R110,00}{1} \checkmark MA$ $= R95,65217391 \checkmark A$</p> <p>Amount including VAT / Bedrag <i>BTW</i> ingesluit</p> <p>$= R95,65217391 \times \frac{114}{100} \checkmark MA$ $= R109,04 \checkmark CA$</p> <p style="text-align: center;">OR/OF</p> <p>Amount excluding VAT / Bedrag <i>BTW</i> uitgesluit</p> <p>$= \frac{R110,00}{1,15} \checkmark A$ $= R95,65217391 \checkmark A$</p> <p>Amount including VAT / Bedrag <i>BTW</i> ingesluit</p> <p>$= R95,65217391 \times 1,14 \checkmark MA$ $= R109,04 \checkmark CA$</p>	<p>1A correct VAT calculation</p> <p>1MA multiplying by $\frac{R110}{1}$</p> <p>1A simplification</p> <p>1MA multiplying by $\frac{114}{100}$</p> <p>1CA simplification</p> <p style="text-align: center;">OR/OF</p> <p>1A correct VAT calculation</p> <p>1MA dividing by 1,15</p> <p>1A VAT excluded amount</p> <p>1MA multiplying by 1,14</p> <p>1CA simplification</p> <p style="text-align: right;">(5)</p>	F L3 D
* 2.2.1	<p>Annual taxable income / <i>Jaarlikse belasbare inkomste</i></p> <p>$= R8\ 978,00 \times 12$ $= R107\ 736,00 \checkmark A$</p> <p>Tax bracket / <i>Belasting hakkie</i></p> <p>= A</p> <p style="text-align: center;">OR / OF</p> <p>$= 1 - 226\ 000 \checkmark \checkmark RT$</p> <p style="text-align: center;">OR / OF</p> <p>= 18% of taxable income</p>	<p>1A annual taxable income</p> <p>2RT tax bracket</p> <p>AO</p> <p style="text-align: right;">(3)</p>	F L2 M



Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
2.2.2	<p>Income Tax / <i>Inkomstebelasting</i></p> <p>18% of taxable income</p> $= R107\,736,00 \times \frac{18}{100} \checkmark\text{MCA}$ $= R19\,392,48 \checkmark\text{CA}$ $\checkmark\text{MA}$ $= R19\,392,48 - (R16\,425,00 + R9\,000,00) \checkmark\text{MA}$ $= R19\,392,48 - R25\,425$ $= -R6\,032,52 \text{ OR / OF } R19\,392,48 < R25\,425 \checkmark\text{CA}$ <p>His statement is VALID / <i>Sy bewering is GELDIG.</i> $\checkmark\text{O}$</p> <p style="text-align: center;">OR / OF</p> <p>Annual Taxable Income / <i>Jaarlikse belasbare inkomste</i></p> $= R107\,736,00$ <p>Rebates / <i>Kortings</i></p> $= R16\,425 + R9\,000 \checkmark\text{MA}$ $= R25\,425 \checkmark\text{CA}$ <p>Tax Threshold / <i>Belastingdrempel</i></p> $= R25\,425 \div 18\% \checkmark\text{MCA}$ $= R141\,250 \checkmark\text{CA}$ <p>R141 250 is greater than / <i>is meer as</i> R107 736. $\checkmark\text{O}$</p> <p>His statement is VALID / <i>Sy bewering is GELDIG.</i> $\checkmark\text{O}$</p>	<p>CA from Question 2.2.1</p> <p>1MCA calculating 18%</p> <p>1CA simplification</p> <p>1MA subtracting rebate</p> <p>1MA subtracting rebate</p> <p>1CA simplification</p> <p>1O conclusion</p> <p style="text-align: center;">OR / OF</p> <p>1MA adding rebate</p> <p>1CA simplification</p> <p>1MCA dividing by 18%</p> <p>1CA simplification</p> <p>1O reason</p> <p>1O conclusion</p> <p style="text-align: right;">(6)</p>	<p>F</p> <p>L4</p> <p>M</p>
2.3.1	<p>Grants / <i>Toelae</i> $\checkmark\checkmark\text{RT}$</p>	<p>2RT correct item</p> <p style="text-align: right;">(2)</p>	<p>F</p> <p>L1</p> <p>E</p>
* 2.3.2	<p>Amount in thousands / <i>Bedrag in duisende</i></p> <p style="text-align: center;">$\checkmark\text{RT}$</p> $R340\,688 - (R111\,769 + R48\,152) \checkmark\text{MA}$ $= R180\,767 \checkmark\text{CA}$	<p>1RT correct values</p> <p>1MA adding and subtracting</p> <p>1CA simplification</p> <p style="text-align: right;">(3)</p>	<p>F</p> <p>L2</p> <p>E</p>
* 2.3.3	<p>The amount is a deficit / <i>Die bedrag is 'n tekort.</i> $\checkmark\checkmark\text{O}$</p> <p style="text-align: center;">OR/OF</p> <p>Indicates the amount is negative / <i>Dui aan dat die bedrag negatief is.</i> $\checkmark\checkmark\text{O}$</p>	<p>2O opinion</p> <p style="text-align: right;">(2)</p>	<p>F</p> <p>L4</p> <p>E</p>



Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
2.3.4	Net deficit / <i>Netto verlies</i> \checkmark RT \checkmark RT $R313\,792 - R322\,891 \checkmark$ A $= - R9\,099$	1RT correct value 1RT correct value 1A subtraction in correct order (3)	F L2 E
2.3.5	Net surplus/ <i>Netto surplus</i> : \checkmark RT $Y = \frac{2,53}{100} \times \frac{317\,582}{1} \checkmark$ MA $= R8\,034,825$ OR / OF $R8\,035 \checkmark$ A Expenditure/ <i>Uitgawes</i> : $Z = R317\,582 - R8\,035 \checkmark$ MA $= R309\,547$ <p style="text-align: center;">OR/OF</p> $100\% - 2,53\% \checkmark$ MA $= 97,47\% \checkmark$ A Expenditure / <i>Uitgawes</i> \checkmark RT $\frac{97,47}{100} \times \frac{317\,582 \checkmark$ MA $\quad\quad\quad 1$ $= R309\,547,18$ $\approx R309\,547$	1RT correct value 1MA calculating surplus 1A simplification 1MA subtracting correct values <p style="text-align: center;">OR/OF</p> 1MA subtracting percentages 1A simplification 1RT correct value 1MA correct substitution (4)	F L3 M
		(4)	
		[40]	



QUESTION/VRAAG 3 [27 MARKS/PUNTE]			
Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
3.1.1	Male / <i>Manlik</i> ✓✓RT	2RT correct option (2)	D L1 E
*	3.1.2 Difference / <i>Verskil</i> ✓RT 21,5% – 11,1% ✓MA = 10,4% ✓CA	1RT correct values 1MA subtracting values 1CA simplification NPU (3)	D L2 E
*	3.1.3 The percentage of children in the under 5 year-category is almost the same. / <i>Die persentasie van kinders in die onder 5 kategorie is amper dieselfde.</i> ✓✓O There is a greater increase in urban than in rural for the over 5 years to 17-category / <i>Daar is 'n groter toename in stedelike as in landelike vir die bo 5 tot 17 jaar kategorie.</i> ✓O OR / OF Healthy food vs Junk food / <i>Gesonde kos vs gemorskos.</i> More active vs Less active / <i>Meer aktief vs Minder aktief.</i> Walking long distances to school vs Driving to school / <i>Stap lang afstande skool toe vs ry skool toe.</i> Manual labour vs Playing video games / <i>Handearbeid vs om videospelletjies te speel.</i> ✓O	2O comparison 1O comparison / comment (3)	D L4 D
3.1.4	Number of learners / <i>Aantal leerders</i> $\frac{16,3}{100} \times \frac{795}{1}$ ✓MA = 130 learners / <i>leerders</i> ✓A Learners not overweight or obese / <i>Leerders nie oorgewig of baie oorgewig nie</i> = 795 – 130 = 665 learners/ <i>leerders</i> ✓CA OR/OF	1MA percentage calculation 1A simplification Accept: 129 1CA simplification Accept: 666 OR/OF	D L2 M



Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
3.1.4	Percentage / <i>Persentasie</i> $100\% - 16,3\%$ $= 83,7\%$ ✓A Number of learners / <i>Aantal leerders</i> $\frac{83,7}{100} \times \frac{795}{1}$ ✓MA $= 665$ learners / <i>leerders</i> ✓CA	1A finding the percentage 1MA percentage calculation 1CA simplification (3)	
* 3.1.5	Probability / <i>Waarskynlikheid</i> Overweight/Obese / <i>Oorgewig/Baie oorgewig</i> = 11,1% ✓MA $= 100\% - 11,1\%$ $= 88,9\%$ ✓A $= \frac{889}{1000}$ ✓CA	1MA calculating percentage 1A simplification 1CA correct fraction (3)	P L3 M
* 3.2.1	17,9 inches / <i>duim</i> ✓✓RT	2RT reading from chart Accept 17,8 – 18 (2)	D L2 M
3.2.2	✓RT ✓RT One month and 18 months <i>Een maand en 18 maande</i>	1RT correct age 1RT correct age (2)	D L2 M
3.2.3	The other child fell in a <u>higher</u> percentile / <i>Die ander kind val onder 'n hoër persentiel.</i> ✓✓A	2A correct conclusion (2)	D L4 M
3.3.1	75% ✓✓RT	2RT correct interpretation (2)	D L2 M
* 3.3.2	✓MA $\frac{50}{100} \times \frac{129}{1}$ ✓RT $= 64,5$ ✓A 64 children, because the 65 th child will fall on the median / <i>64 kinders ,want die 65ste kind val op die mediaan.</i>	1MA calculating 50% 1RT finding 129 1A simplification (3)	D L3 D



Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
* 3.3.3	<p>Unfair sampling - Having sample population of 13 malnourished and 129 normal was <u>biased</u> from the beginning / <i>Onregverdige steekproefneming - Die steekproefpopulasie van 13 ondervoede en 129 normaal was van die begin af bevooroordeeld.</i></p> <p style="text-align: center;">OR / OF ✓✓O</p> <p>The sample was <u>skewed</u> towards the normal nutritional status. The representation might have been based on the prevalence of malnourished to normal status. <i>Die steekproef neig meer na die normale voedingswaarde status. Die steekproef mag verteenwoordigend gewees het van wanvoeding tot normale status.</i></p>	<p>20 correct explanation</p>	<p>D L4 D</p>
		(2)	
		[27]	



QUESTION/VRAAG 4 [33 MARKS/PUNTE]			
Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
* 4.1.1	No mode / <i>Geen modus</i> OR / OF None / <i>Geen</i> ✓✓A	2A no mode (2)	D L2 E
* 4.1.2	7 ✓✓A	2A number of items (2)	D L1 E
* 4.1.3	<p>Amount for on-line / <i>Bedrag vir aanlyn</i></p> $\begin{aligned} & \checkmark\text{MA} \\ & = \text{R } 208,74 + (\text{R}15 \times 2) \\ & = \text{R}238,74 \checkmark\text{A} \end{aligned}$ <p>Amount saved / <i>Bedrag gespaar</i></p> $\begin{aligned} & \checkmark\text{RT} \\ & = \text{R}261,80 - \text{R}238,74 \\ & = \text{R}23,06 \checkmark\text{CA} \end{aligned}$ <p style="text-align: center;">OR / OF</p> <p>Amount saved / <i>Bedrag gespaar</i></p> $\begin{aligned} & \checkmark\text{RT} \qquad \qquad \qquad \checkmark\text{MA} \\ & = (\text{R}261,80 - \text{R}208,74) - (\text{R}15,00 \times 2) \\ & \qquad \qquad \qquad \checkmark\text{A} \\ & = \text{R}53,06 - \text{R}30 \\ & = \text{R}23,06 \checkmark\text{CA} \end{aligned}$	<p>1MA multiply by 2 1A simplification</p> <p>RT correct value (R261,80) 1CA simplification</p> <p style="text-align: center;">OR / OF</p> <p>RT correct value (R261,80) 1MA multiply by 2 1A simplification 1CA simplification (4)</p>	F L2 E
* 4.1.4	<p>Median / <i>Mediaan</i></p> <p>11,95 12,99 13,95 14,99 15,95 15,95 18,95 20,99 22,95 23,99 27,95 29,95 ✓A</p> $\begin{aligned} & \checkmark\text{RT} \\ & = \frac{15,95 + 18,95}{2} \checkmark\text{MA} \\ & = \frac{34,90}{2} \\ & = 17,45 \checkmark\text{CA} \end{aligned}$	<p>1A arranging values 1RT two middle values 1MA concept of median 1CA simplification (4)</p>	D L2 M
4.1.5	<p>Probability / <i>Waarskynlikheid</i></p> $= \frac{6 \checkmark\checkmark\text{A}}{12 \checkmark\text{A}} \text{ OR / OF } \frac{1}{2} \text{ OR / OF } 0,5 \text{ OR / OF } 50\%$	<p>2A numerator 1A denominator AO (3)</p>	P L3 E



Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
* 4.2.1	Third lowest / <i>Derde laagste</i> = P&P store / <i>winkel</i> ✓✓A	2A correct store (2)	F L1 E
* 4.2.2	Number of doughnuts / <i>Aantal oliebolle</i> = 50×4 ✓MA = 200 ✓A Cost of packets of doughnuts / <i>Koste van pakkies oliebolle</i> = R701 – R201 = R500 ✓A Cost per doughnut / <i>Koste per oliebol</i> = $R500 \div 200$ ✓MA = R2,50 ✓CA FLM store / <i>winkel</i> ✓A	1MA multiplying by 4 1A number of doughnuts 1A cost of packs of doughnuts 1MA dividing by 200 1CA simplification 1A correct store (6)	F L3 D
4.2.3	✓A Disagree. The expenses is higher than the income / <i>Stem nie saam nie. Die uitgawes is hoër as die inkomste.</i> ✓✓O	1A disagree 2O reason (3)	F L4 M
* 4.2.4	Lower / <i>Laer</i> ✓A Income higher, therefore the break-even point will be reached sooner / <i>Inkomste verhoog, daarom sal die gelykbreekpunt vroër bereik word.</i> ✓✓O Cost will be covered sooner / <i>Koste sal vroër gedek word.</i>	1A lower 2O reason (3)	F L4 M
4.2.5	Percentage profit / <i>Persentasie wins</i> $\% \text{ Profit / Wins} = \frac{\overset{\checkmark\text{RT}}{R2\ 000} - \overset{\checkmark\text{RT}}{R1\ 201}}{R1\ 201} \times 100\%$ = 66,53% ✓CA	1RT correct value from graph RT correct value from graph 1SF correct substitution 1CA simplification NPR NPU AO (4)	F L2 M
		[33]	



QUESTION/VRAAG 5 [21 MARKS/PUNTE]			
Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
* 5.1.1	Wizz Air Group / <i>Groep</i> ✓✓RT	2RT correct aircraft group (2)	D L2 E
* 5.1.2	Percentage decrease / <i>Persentasie vermindering</i> ✓RT $A = \frac{3\,763 - 4\,290}{4\,290} \times 100\%$ ✓A = -12,28438228% ✓A = -12% ✓R OR / OF $\% \text{ operated} = \frac{3\,763}{4\,290} \times 100\%$ ✓RT = 87,71561772% ✓MA A = 87,71561772% - 100% = -12,28438228% ✓A = -12% ✓R	1RT correct value (3 763) 1A correct denominator 1A simplification 1R correct rounding OR / OF 1RT correct value (3 763) 1MA calculating % 1A simplification 1R correct rounding (4)	D L3 D
5.1.3	Range / <i>Omvang</i> ✓RT ✓RT = 13% - (-35%) = 48% ✓A	1RT correct value 1RT correct value 1A simplification (3)	D L2 D
5.1.4	Value of B / <i>Waarde van B</i> $1\,028,2 = \frac{2\,566 + 1\,347 + \dots + B + 547 + 536}{10}$ ✓MA $1028,2 = \frac{9\,640 + B}{10}$ B = 1 028,2 × 10 - 9 640 ✓MA B = 642 ✓CA	1MA concept of mean 1MA adding values 1MA changing the subject of the formula 1CA simplification (4)	D L3 D



Q/V	Solution/Oplissing	Explanation/Verduideliking	
5.1.5	Probability / <i>Waarskynlikheid</i> $= \frac{2}{10} \checkmark A$ $= 0,2 \checkmark CA$	1A numerator 1A denominator 1CA simplification AO (3)	P L3 E
* 5.2.1	Stronger / <i>Sterker</i> $\checkmark \checkmark A$	2A stronger (2)	F L1 M
5.2.2	$\$1 = \text{NIS } 3,66061 \checkmark A$ Amount / <i>Bedrag</i> $= \frac{2\,580}{1} \times 3,66061 \checkmark MA$ $= \text{NIS } 9\,444,37 \checkmark A$ <p style="text-align: center;">OR / OF</p> $\text{NIS } 1 = \$0,27317867 \checkmark A$ Amount / <i>Bedrag</i> $= \frac{2\,580}{0,27317867} \times 1 \checkmark MA$ $= \text{NIS } 9\,444,37 \checkmark A$	1A identifying correct exchange rate 1MA multiplying with exchange rate 1A simplification <p style="text-align: center;">OR / OF</p> 1A identifying correct exchange rate 1MA dividing with exchange rate 1A simplification NPR AO (3)	F L2 M
		[21]	
TOTAL/TOTAAL: 150			

