

# 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 2022** 

MARKING GUIDELINES/NASIENRIGLYNE

MARKS/PUNTE: 150

Symbol/Kode	Explanation/Verduideliking	
M	Method/ <i>Metode</i>	
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	
0	Opinion/Explanation/Opinie/Verduideliking	
P		
	verkeerde afronding, ens.	
NPR	No penalty for correct rounding/Geen penalisasie vir korrekte afronding nie	
NPU	No penalty for omitting unit, but wrong unit is penalised/Geen penalisasie indien die	
	eenheid uitgelos is, maar wel indien 'n verkeerde eenheid gebruik word.	
AO	Answer only/Slegs antwoord	

These marking guidelines consist of 20 pages and 2 pages of notes. Hierdie nasienriglyne bestaan uit 20 bladsye en 2 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 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 berekeninge dit voorgaan.

QUES	QUESTION/VRAAG 1 [30 MARKS/PUNTE] ANSWER ONLY FULL MARKS		
Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
1.1.1	Numerical / Numeriese ✓✓ A	2A correct classification (2)	D L1 E
1.1.2	✓RT R11,99; R18,99; R39,99; R44,99; R54,99; R159,99; R169,99 ✓A	1RT all correct values  1A ascending order  (2)	D L1 E
1.1.3	B ✓✓RT	2RT correct store (2)	D L1 E
1.1.4	White socks/Wit kouse = $\frac{R85,99}{5}$ $\checkmark$ MA = R17,198 $\checkmark$ A = R17,20 $\checkmark$ R	1MA dividing by 5 1A price per pair 1R 2 decimal places (3)	F L1 E
1.1.5	Total cost / Totale koste	1RT correct values  1A simplification  (2)	F L1 E
1.1.6 (a)	✓A The chance/likelihood of selecting Store C. ✓A Die kans/waarskynlikheid om Winkel C te kies.	1A chance/likelihood 1A store C (2)	P L1 E

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
1.1.6 (b)	0,33333333333 × 100% ✓MA = 33,333333333% = 33% ✓A	1MA calculating percentage  1A rounded percentage	P L1 E
1.2.1	An investment is any form of saving that you put into a financial scheme, bank or stokvel that will result in interest. ✓ A 'n Belegging is 'n vorm van spaar waar jy geld in 'n finansiële skema, bank of stokvel sit wat sal lei na rente.	1A form of savings 1A interest (2)	F L1 E
1.2.2	Total contributions/ <i>Totale bydrae</i> R2 500 × 24 ✓ MA  = R60 000 ✓ A	1MA multiply by months 1A simplification (2)	F L1 E
1.2.3	Interest earned/ <i>Rente verdien</i> ✓MA  R92 065,71 – R60 000  = R32 065,71 ✓A	1MA subtract correct values  1A simplification (2)	F L1 E
1.2.4	More interest/ <i>Meer rente</i> ✓ MA  R92 065,71 – R74 286,84  = R17 778,87 ✓ A	1MA subtracting correct values  1A simplification (2)	F L1 E
1.3.1	✓A  Compound / Triple / Grouped / Multiple / Clustered bar graph ✓A  Saamgestelde/ Drievoudige/ Gegroepeerde / Veelvoudige staafgrafiek	1A type 1A bar graph	D L1 E
1.3.2	95 ULP / Unleaded petrol / ULP / 95 95 ULP / Loodvrye petrol / ULP / 95	2A correct product (2)	D L1 M
1.3.3	In rand /In rand $1.955,28 \text{ c/}\ell \div 100 \text{ VMA}$ $= R19,55/\ell \text{ VA}$ $= R19,50/\ell \text{ VR}$	1MA dividing by 100 1A rand per litre 1R rounding (3)	_

QUES	TION/VRAAG 2 [34 MARKS/PUNTE]		
Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
2.1.1	Policy number / Polisnommer = 23388350 ✓✓RT	2RT correct number (2)	F L1 E
2.1.2	Table values excluding A and discount / Tabel waardes uitsluitend A en die afslag		F L3 D
	R7,16 + R200,41 + R520,41 + R133,16 + R201,79 +		
	R23,30 + R9,07 ✓ MA = R1 095,30	1MA adding all premiums	
	Value of A / Waarde van A  ✓MCA  R2 184,21 – R1 095,30 + R266,15 ✓MA  = R1 355,06 ✓CA  OR/OF	1MCA subtracting from total premium 1MA adding the discount 1CA simplification  OR/OF	
	$\checkmark$ MA R1 095,30 + A + (-R266,15) = R2 184,21 $\checkmark$ MA $\checkmark$ MCA A = R2 184,21 + R266,15 - R1 095,30 = R1 355,06 $\checkmark$ CA	1MA adding all premiums 1MCA subtracting from total premium 1MA adding the discount 1CA simplification	
	OR/OF	ODIOE	
	Table values $-A = / Tabel \ waarde - A = $ $(R7,16 + R200,41 + R520,41 + R133,16 + R201,79 + R23,30 + R9,07) - R266,15 \checkmark MA$ $= R829,15$ $A = R2 \ 184,21 - R829,15 \checkmark MCA$ $= R1 \ 355,06 \checkmark CA$	OR/OF  1MA adding all premiums  1MA subtracting the discount  1MCA subtracting from total premium  1CA simplification  (4)	
2.1.3	Percentage discount / Persentasie afslag $ \sqrt{RT} $ $ \frac{R266,15}{R2 \ 450,36} \times 100\%  \checkmark MA $	1RT correct amount 1MA correct %-calculation	F L3 M
	= 10,86% ✓CA	1CA simplification	

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
2.1.3	OR/OF ✓RT	OR/OF	
	% discount = $\frac{R2450,36 - R2184,21}{R2450,36} \times 100\%$ $\checkmark$ MA	1RT correct amount 1MA correct %-calculation	
	=10,86% ✓CA	1CA simplification	
	OR/OF ✓ <sub>RT</sub>	OR/OF	
	Percentage discount = $100\% - \left(\frac{R2\ 184,21}{R2\ 450,36} \times 100\%\right)$	1RT correct amount	
	= 100% - 89,14% ✓MA = 10,86% ✓CA	1MA correct %-calculation 1CA simplification NPR (3)	
		(3)	F
2.1.4	Claim amount / Eisbedrag  ✓RT  R43 520 – R7 000	1RT identifying R7 000	L1 M
	$= R36 520 \checkmark A$	1A claim amount (2)	
2.1.5	Amount VAT / BTW-bedrag  ✓ A	1A correct VAT calculation	F L2 M
	$\frac{15}{115} \times \frac{\text{R2 } 184,21}{1}$ $\checkmark \text{MA}$	1MA multiplying by $\frac{15}{115}$	
	$= R284,90 \checkmark A$	1A simplification	
	OR/OF	OR/OF	
	Amount before VAT = $\frac{R2\ 184,21}{1,\ 15}$ $\checkmark$ MA	1MA dividing by 1,15	
	$= R1 899,31 \checkmark A$ VAT amount = R2 184,21 - R1 899,31	1A VAT excluded amount	
	= R284,90 ✓A	1A simplification (3)	

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
2.1.6	The VW Polo costs more than the Toyota Corolla. / Die VW Polo is duurder as die Toyota Corolla. ✓ ✓ O		F L4 M
	OR/OF		
	The Toyota is an older model. / Die Toyota is 'n ouer model.		
	(The VW is a newer model. / Die VW is 'n nuuter model).  ✓✓O		
	OR/OF		
	The retail value of the VW Polo is higher, therefor replacement value is higher. / Die herverkoopwaarde van die VW Polo is hoër, daarom is die vervangingswaarde duurder.	2O correct explanation	
	OR/OF		
	The VW is a high risk vehicle. / Die VW is 'n hoë risiko voertuig. ✓ ✓ O		
	OR/OF		
	The primary driver of the VW is a younger driver who is inexperienced as a driver.  Die primêre bestuurder van die VW is 'n jonger bestuurder wat 'n onervare bestuurder is.	(2)	
2.1.7	His premium will increase as his household content value will increase to more than R200 000. / Sy premie sal verhoog aangesien sy huishoudelike inhoudswaarde		F L4 M
	gevolglik na meer as R200 000 sal verhoog. ✓✓O	2O valid conclusion (2)	
2.2.1	Cost of sanitation / Koste van sanitasie	AO	F L2
	= R228,06	1RT correct amount 1R correct rounding (2)	M
2.2.2	Tariff before increase / Tarief voor verhoging ✓RT R16,03 – R0,66 = R15,37 ✓A	1RT reading from table 1A simplification	F L3 M
	Cost of sanitation / Koste vir sanitasie		
	4,1 kℓ × R15,37 ✓ MCA = R63,02 ✓ CA	1MCA multiply by tariff 1CA simplification	

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
2.2.2	OR/OF	OR/OF	
	Amount after increase / Bedrag na verhoging = R16,03 × 4,1 kℓ = R65,723 ✓ A		
	Increase / Verhoging	1A simplification	
	$ \sqrt{RT} $ = R0,66 × 4,1 kℓ = R2,706	1RT reading from table	
	Amount before increase / Bedrag voor verhoging = R65,723 – R2,706 ✓MCA = R63,02 ✓CA	1MCA multiply by tariff 1CA simplification (4)	
2.2.3	Sanitation Bill – Cape Town: Ms Brown  Sanitasierekening – Kaapstad: Me Brown  MA $\checkmark$ RT $4,2 \text{ k}\ell \times \text{R16,03} = \text{R 67,33}$ $3,15 \text{ k}\ell \times \text{R22,02} = \text{R 69,36}$ $14,65 \text{ k}\ell \times \text{R30,92} = \frac{\text{R452,98}}{\text{R589,67}}$ $= \text{R589,67} \checkmark \text{CA}$	1MA all (3) correct kl 1RT 3 tariffs  1CA finding total water bill	F L3 D
	Sanitation Bill – Johannesburg: Mr Jones  Sanitasierekening – Johannesburg: Mnr Jones  VAT / BTW: $\checkmark$ RT  = R443,96 × $\frac{15}{100}$		
	Total amount / Totale bedrag $= R443,96 + R66,59 \checkmark MCA$ $= R443,96 \times \frac{115}{100}$	1RT correct amount	
	= R510,55 ✓ CA  Difference in Sanitation Bill / Verskil in Sanitasierekening R589,67 – R510,55 ✓ MCA = R79,12 ✓ CA	1MCA adding values 1CA simplification	
		1MCA subtracting values 1CA simplification (8)	

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
2.2.4	The fixed rate allows you to use as much as you can for the same amount. / Die vaste koers laat jou toe om soveel as wat jy kan vir dieselfde bedrag te gebruik.   OR/OF		F L4 M
	It benefits home owners with smaller properties who pay less. / Dit bevoordeel eienaars van kleiner huise wat minder gaan betaal. 🗸 🗸 O OR/OF	2O correct explanation	
	Even if the usage of water varies /differs from month to month, the cost/bill remains the same amount. / Selfs as die water gebruik verskil van maand tot maand bly die koste/rekening dieselfde.	(2)	
		[34]	

QUESTION/VRAAG 3 [24 MARKS/PUNTE]			
Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
3.1.1	Total value / Totale waarde $\checkmark$ RT = 18,4 + 5,6 + 0,5 + 2,9 + 9,5 + 3,1 + 33,1 + 5,7 + 4,7 $\checkmark$ MA = 83,5	1RT correct values 1MA adding	D L1 E
	OR/OF	OR/OF	
	Total value / <i>Totale waarde</i> ✓RT = 1 199,5 – 1 116 ✓MA = 83,5	1RT both correct values 1MA subtracting	
3.1.2	The table value is given in ten thousands.  Die tabelwaarde is gegee in tien duisende.	20 difference in table value from actual value	D L4 M
	OR/OF	OR/OF	
	Rounding issues / Probleme met afronding ✓✓O	2O rounding (2)	
3.1.3	Number of people / aantal mense $\checkmark$ RT = 365,9 × 10 000 = 3 659 000 <b>OR/OF</b> 365,9 ten thousand / tien duisend $\checkmark$ A	1RT reading from table 1A correct value (2)	D L1 E
3.1.4	Medical sector e.g. doctor/ nurse Security sector e.g. police / security guards Essential services e.g. cashier Construction sector e.g. plumbing / electrician / builder Agricultural sector e.g. farming Mediese sektor bv. doktor / verpleegster ✓ ✓ A Sekuriteit sektor bv. polisie / sekuriteitswag Essensiële dienste bv. kasier Konstruksie sektor bv. loodgieter / elektrisiën / bouer Landbou sektor bv. boerdery	2A correct job (2)	D L1 E

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
3.1.5	Solution/Oplossing  Mean in ten thousand / Gemiddeld in tien duisend $\checkmark$ RT $= \frac{21,7 + 7,2 + 0,5 + 3,2 + 9,4 + 2,4 + 36,6 + 5,8 + 6,3}{9 \checkmark MA}$ $= \frac{93,1}{9} \checkmark S$ $= 10,34444$ $= \frac{1168,1 - 1075}{9}$	1RT adding correct values  1MA concept of mean  1S simplification	T&L D L2 M
	Mean = 103 444,4 <b>OR/OF</b> 103 444 ✓CA	1CA correct mean NPR (4)	
3.2.1	Quarter / Kwartaal 3 3 <sup>rd</sup> / 3de Third / Derde  ✓ RT	2RT correct quarter (2)	D L1 E
3.2.2	Number of unemployed / Aantal werkloos  ✓RT  7,6 million + 183 000  ✓C	1RT correct values	D L2 M
	7 600 000 + 183 000	1C correct conversion	
	= 7 783 000 ✓CA	1CA simplification	
	OR/OF ✓RT	OR/OF	
	7,6 million + 0,183 million ✓C =7,783 million / miljoen ✓CA	1RT correct values 1C correct conversion 1CA simplification (3)	

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
		1RT quarter 1	D
3.2.3	✓RT ✓RT	1RT quarter 3	L2
	Q1 = 34%; $Q3 = 37,4%$	Accept quarter 3:	M
		37,3% - 37,5%	
	Increase % / Toename %		
	= 37,4% - 34%	1CA increase	
	= 3,4% ✓CA	Accept:	
		3,3% - 3,5%	
		(3)	
			D
3.2.4	Total number of people / Totale aantal mense		L2
	100		M
	$\frac{100}{34,4} \times 7,6$ million		
	34,4 ✓RT	1RT correct percentage	
		TK1 correct percentage	
	= 22 093 023,26	1A simplification	
	= 22 093 023 ✓ A	1MCA subtracting values	
	✓MCA	Tivicii subtracting varies	
	Number of employed people = $22\ 093\ 023 - 7\ 600\ 000$		
	= 14 493 023 ✓CA	1CA total number of people	
	OR/OF	OR/OF	
	✓RT		
	Employed = $100\% - 34,4\% = 65,6\% \checkmark A$	1RT correct percentage	
	✓ MCA 65.6 <b>–</b> 60.0 0.0 0.0	1A simplification	
	Number of employed people = $\frac{65.6}{34.4} \times 7600000$	1MCA ratio calculation	
	= 14 493 023 ✓CA		
	= 14 493 023 V CA	1CA total number of people	
		NPR	
		(4)	
		[24]	

Q/V		Total and a second seco	\ \tag{\alpha}
	Solution/Oplossing	Explanation/Verduideliking AO	T&L F
4.1.1	Tax Payable (before rebates)	AO	L2
7.1.1	$= R115 762 + [36\% \times (\text{annual taxable income} - 488 700)]$		E
	- K113 702 + [3070 × (annual taxable income 400 700)]		
	Belasting betaalbaar (voor korting)		
	$= R115762 + [36\% \times (jaarlikse\ belasbare\ inkomste]$		
	488 700)]		
	36 VSF	1SF substituting value	
	Tax payable = R115762 + $\left[\frac{36}{100} \times (495602 - 488700)\right]$		
	$= R115762 + 2484,72 \checkmark MA$	1MA adding values	
	= R118 246,72 ✓CA	1CA simplification	
	0.1	NPR	
		(3)	
		CA from Question 4.1.1	F
4.1.2	Monthly tax (before rebate) /		L4
	Maandelikse belasting (voor belastingkorting)		D
	P110.046.70 - 10 (1)44	13.64 11 12 1 12	
	= R118 246,72 ÷ 12 ✓MA	1MA dividing by 12	
	= R9 853,89 ✓A	1A monthly tax	
	After rebate / Na belastingkorting		
	✓ MA	1MA subtracting rebate	
	= R9 853,89 - R1 368,75	1MCA finding tax after	
	$= R8 485,14 $ $\checkmark MCA$	rebate	
	- K0 405,14 · MC/1	Teodic	
	Monthly taxable income (before rebate) /		
	Maandelikse belasting (voor belastingkorting)		
	3/		
	$= R495 602 \div 12$		
	= R41 300,17 ✓ A	1A monthly income	
	- K+1 500,1 / <b>v</b> A		
	Tax payable (according to table) / Belasting (volgens tabel)		
	D9 401		
	$= R8 \ 491$		
	He is incorrect / Hy is verkeerd ✓O	10 conclusion	
	The is incompose, my is verticed.	Conclusion	
	OR/OF	OR/OF	

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
4.1.2	Annual rebate / Jaarlikse korting		F L4 D
	= R1 368,75 × 12 ✓ MA	1MA multiplying by 12	
	= R16 425 ✓ A	1A correct annual rebate	
	Annual tax (after rebate) / Jaarlikse belasting (na belastingkorting)		
	= R118 246,72 − R16 425 = R101 821,72 ✓ A	1A annual tax	
	Monthly income / Maandelikse inkomste		
	$= R495 602 \div 12$	1A monthly income	
	$= R41\ 300,17 \checkmark A$	174 monthly meone	
	Annual tax / Jaarlikse belasting		
	$= R8491 \times 12$	1MCA annual tax	
	= R101 892 ✓ MCA	TWICA aiiliuai tax	
	He is incorrect / Hy is verkeerd. ✓O	10 conclusion	
	OR/OF	OR/OF	
	Monthly tax before rebate /  Maandelikse belasting voor korting  = R118 246,72 ÷ 12 ✓MA  = R9 853,89 ✓A	1MA dividing by 12 1A correct answer	
	Monthly taxable income / Maandelikse belasbare inkomste = R495 602 ÷ 12	14	
	$= R41\ 300,17 \ \checkmark A$	1A correct answer	
	Before rebate / Voor korting		
	= R8 491 + R1 368,75 ✓MA	1MA adding rebate	
	= R9 859,75 ✓MCA	1MCA finding tax after rebate	
	He is incorrect / Hy is verkeerd. ✓O	1O conclusion (6)	

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
	<u> </u>		P
4.1.3	Probability / waarskynlikheid		L2
			M
	0; 0%; impossible / onmoontlik / zero / nul ✓✓ A	2A probability	
		(2)	
			D
4.2.1	Two million five hundred and eighty four thousand one		L1
	hundred and seventy six.		E
	Twee miljoen vyf honderd vier en tagtig duisend een		
	honderd ses en sewentig. ✓ ✓ A		
		(2)	
	✓RT	1RT correct values	D
4.2.2	407 739 : 61 934 : 36 085 ✓MA	1MA correct order	L2
		(2)	M
		AO	D
4.2.3	16 426; 18 235; 19 077; 21 887; 36 085 ✓A	1A arranging values	L2
	N. 11. 10.077 ()	1.	E
	Median / mediaan = 19 077 ✓A	1A correct median	
		(2)	

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
4.2.4	Number of Ford F-Series / Aantal Ford F-Reeks  ✓MA  = 357 243 – (53 757 + 51 684 + 73 467 + 61 934)	AO 1RT correct values from graph 1MA subtracting from total	D L2 E
	= 357 243 - 240 842 = 116 401 ✓CA	1CA simplification (3)	
4.2.5	Interquartile range / Interkwartielomvang  ✓A  IQR = Q3 – Q1	AO  1A correct formula	D L3 M
	$\checkmark$ SF 7 669 = Q3 – 11 408 $\checkmark$ MA Q3 = 7 669 + 11 408	1SF substituting into formula 1MA changing the subject of the formula	
	= 19 077 ✓CA	1CA simplification (4)	F
4.2.6	2020 Price of Ford F-Series / 2020 prys van Ford F-reeks $ \checkmark RT $ \$32 332 $\times \frac{100}{107} \checkmark RT$ =\$30 216,82 $\checkmark A$	1RT numerator 1RT denominator 1A 2020 price	L4 D
	2019 Price of Ford F-Series/ 2019 prys van Ford F-reeks		
	$$30\ 216,82 \times \frac{100}{101,4} \checkmark MA$ =\$29 799,63 \(\sqrt{CA}\)	1MA concept of % decrease	
	The statement is not valid / Die bewering is nie geldig nie.  ✓O	1CA simplification 1O not valid	
	OR/OF	OR/OF	
	2019 Price of Ford F-Series / 2019 prys van Ford F-reeks $ \sqrt{RT}  \sqrt{RT} $ \$32 332 $\times \frac{100}{107} \times \frac{100}{101,4}$ $ \sqrt{RT}  \sqrt{RT} $ =\$29 799,63 $\checkmark$ CA	1RT numerator 1RT denominator 1RT numerator 1RT denominator 1CA simplification	
	The statement is not valid/ <i>Die bewering is nie geldig nie.</i> ✓ O	1O not valid (6)	

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
4.2.7	Probability / Waarskynlikheid $\checkmark$ RT $\frac{569388}{2584176} \times 100\%$	1RT correct numerator 1RT correct denominator	P L2 M
	✓RT = 22,03% ✓CA	1CA simplification NPR (3)	
		[33]	

QUESTION/VRAAG 5 [29 MARKS/PUNTE]			
Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
5.1.1	Western Cape / Wes-Kaap ✓✓RT	2RT correct province (2)	D2 L2
5.1.2	✓RT 3% + 4% + 4% = 11% ✓A	1RT all 3 values  1A simplification	F L3
	$=\frac{4}{11} \times R8\ 300\ 000\ 000\ \checkmark MCA$	1MCA calculating ratio	
	= R3 018 181 818 / R3,018181818 billion / miljard ✓ CA	1CA simplification	
	OR/OF	OR/OF	
	Total contribution / Totale bydrae  ✓RT	1RT correct values	
	$= \frac{100}{11} \times R8 \ 300 \ 000 \ 000$ $= R75 \ 454 \ 545 \ 454 \ \checkmark A$	1A simplification	
	WC contribution / WK bydrae = $\frac{4}{100} \times R75 \ 454 \ 545 \ 454 \ \checkmark MCA$ = R3 018 181 818 $\checkmark$ CA	1MCA calculating ratio  1CA simplification NPR  (4)	
5.1.3	Transport / Vervoer ✓✓RT	2RT correct sector (2)	D2 L2
5.1.4	Finance / Finansies ✓✓ RT	2RT correct sector (2)	D2 L3
5.1.5	Western Cape / Wes-Kaap ✓✓RT	2RT correct province (2)	D2 L2
5.2.1	Japanese yen / Japanese yen ✓✓ RT	2RT correct currency (2)	F L1 M
5.2.2	Russian Rouble = $\frac{1}{6,97481} \checkmark A$ $= 0,143373$	1A numerator 1A denominator	F L1 E

$\mathbf{Q}/V$	Solution/Oplossing	Explanation/Verduideliking	T&L
5.2.3	$= \frac{\text{K1 } 230 \ 000}{\text{R1}} \times \text{CAD } 0,084845 \checkmark \text{MA}$ $= \text{CAD } 104 \ 359,35 \checkmark \text{A}$	1A correct exchange rate 1MA multiply with exchange rate 1A simplification	F L3 D
	OR/OF $ \checkmark A $ $ = \frac{R1\ 230\ 000}{R11,785} \times CAD1 $ $ = CAD\ 104\ 369,9618 $ $ = CAD\ 104\ 369,96\ \checkmark A $	OR/OF  1A correct exchange rate 1MA dividing by exchange rate 1A simplification NPR  (3)	
5.2.4	Diversify his income / Diversifiseer sy inkomste.   OR/OF  The Canadian currency is stronger / Die Kanadese geldeenheid is sterker as die rand.  OR/OF  He will get a better return on his investment / Hy sal 'n beter opbrengs kry op sy belegging.	20 reason	F L4 M

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
5.2.5	Amount interest / Bedrag rente		F L4 D
	Year / jaar 1 $R1 230 000 \times \frac{8,1}{100}  \checkmark MA$	MA calculating 8,1%	
	$= R99 630 \checkmark A$	1A interest year 1	
	Total after year 1 / Totaal na jaar 1 R1 230 000 + R99 630	1A amount end year 1	
	= R1 329 630 ✓A Year / jaar 2	1A amount end year 1	
	R1 329 630 $\times \frac{8,1}{100}$		
	= R107 700,03		
	Total after year 2 / Totaal na jaar 2 R1 329 630 + R107 700,03 = R1 437 330,03 ✓CA		
	8 months / maande	1CA amount year 2	
	R1 437 330,03 $\times \frac{8,1}{100} \times \frac{8}{12} \checkmark MA$ = R77 615,82162	1MA calculating 8 months	
	Final amount / Finale bedrag		
	= R1 437 330,03 + R77 615,82162 = R1 514 945,852  ✓CA	1CA final amount	
	R1 529 360 − R1 514 945,852 = R14 414,15 ✓CA	1CA difference	
	His statement is valid. / Sy bewering is geldig. ✓ O	1CA difference 1O conclusion	

$\Omega/V$	Solution/Oplossing	Explanation/Verduideliking	T&L
Q/V	1 0	•	IXL
505	OR/OF	OR/OF	
5.2.5	Total year 1 / Totaal jaar 1		
	✓A	1A calculating 1,081	
	R1 230 000 × 1,081 ✓ MCA	1MCA multiplying with	
	= R1 329 630 ✓A	1,081	
		1A amount end year 1	
	Total year 2 / Totaal jaar 2		
	R1 329 639 × 1,081		
	$= R1437330,03 \checkmark CA$	1CA amount end year 2	
	, 6.1		
	Interest rate for 8 months / Rentekoers vir 8 maande		
	$8.1\% \times 8 \div 12$		
	$= 5.4\% \checkmark A$	1A calculating 5,4%	
	Total after 2 years 8 months / Totaal na 2 jaar en 8 maande		
	R1 437 330,03 × 1,054		
	= R151 4 945,85 ✓ CA		
	- K131 + 7+3,03 · C/I	1CA final amount	
	Difference in interest earned / Verskil in rente verdien	1CA Illiai amount	
	Difference in interest carried / verskii in reme vertuen		
	R1 529 360 – R1 514 945,85		
	= R14 414,15 ✓CA	1CA difference	
	The statement is valid / Bewering is geldig. ✓O	1O conclusion	
		NPR	
		(8)	
		[29]	
		L -	
		TOTAL/TOTAAL: 150	