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*

SEE ACADEMY

MARKS/*PUNTE*: 150

Symbol/*Kode*	Explanation/*Verduideliking*
M	Method/*Metode*
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./*Penalisasie, bv. vir geen eenhede, 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.

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NOTE:
- If a candidate answers a question TWICE, only mark the FIRST attempt.
- If a candidate has crossed out (cancelled) an attempt to a question and NOT redone the solution, mark the crossed out (cancelled) version.
- Consistent accuracy (CA) applies in ALL aspects of the marking guidelines; however it stops at the second calculation error.
- If the candidate presents any extra solution when reading from 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.*

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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* = $\frac{R85,99}{5}$ ✓MA = R17,198 ✓A = R17,20 ✓R	1MA dividing by 5 1A price per pair 1R 2 decimal places (3)	F L1 E
1.1.5	Total cost / *Totale koste* ✓RT P = R110,00 + R163,00 + R186,00 + R40,50 + R85,00 + R349,00 + R318,00 = R1 251,50 ✓A	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)	0,3333333333 × 100% ✓MA = 33,33333333% = 33% ✓A	1MA calculating percentage 1A rounded percentage (2)	P L1 E
1.2.1	✓A 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/*Totale bydrae* R2 500 × 24 ✓MA = R60 000 ✓A	1MA multiply by months 1A simplification (2)	F L1 E
1.2.3	Interest earned/*Rente verdien* ✓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/*Meer rente* ✓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 (2)	D L1 E
1.3.2	95 ULP / Unleaded petrol / ULP / 95 *95 ULP / Loodvrye petrol / ULP / 95* ✓✓A	2A correct product (2)	D L1 M
1.3.3	In rand /*In rand* 1 955,28 c/ℓ ÷ 100 ✓MA = R19,55/ℓ ✓A = R19,50/ℓ ✓R	1MA dividing by 100 1A rand per litre 1R rounding (3)	F L1 M
		[30]	

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QUESTION/*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* R7,16 + R200,41 + R520,41 + R133,16 + R201,79 + R23,30 + R9,07 ✓MA = R1 095,30 Value of A / *Waarde van A* ✓MCA R2 184,21 – R1 095,30 + R266,15 ✓MA = R1 355,06 ✓CA **OR/*OF*** ✓MA R1 095,30 + **A** + (– R266,15) = R2 184,21 ✓MA ✓MCA **A** = R2 184,21 + R266,15 – R1 095,30 = R1 355,06 ✓CA **OR/*OF*** Table values – A = / *Tabel waarde – A* = ✓MA (R7,16 + R200,41 + R520,41 + R133,16 + R201,79 + R23,30 + R9,07) – R266,15 ✓MA = R829,15 **A** = R2 184,21 – R829,15 ✓MCA = R1 355,06 ✓CA	1MA adding all premiums 1MCA subtracting from total premium 1MA adding the discount 1CA simplification **OR/*OF*** 1MA adding all premiums 1MCA subtracting from total premium 1MA adding the discount 1CA simplification **OR/*OF*** 1MA adding all premiums 1MA subtracting the discount 1MCA subtracting from total premium 1CA simplification (4)	F L3 D
2.1.3	Percentage discount / *Persentasie afslag* ✓RT $\frac{\text{R266,15}}{\text{R2 450,36}} \times 100\%$ ✓MA = 10,86% ✓CA	1RT correct amount 1MA correct %-calculation 1CA simplification	F L3 M

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

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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 **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.* ✓✓O **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.* ✓✓O	2O correct explanation (2)	F L4 M
2.1.7	His premium will increase as his household content value will increase to more than R200 000. / S*y premie sal verhoog aangesien sy huishoudelike inhoudswaarde gevolglik na meer as R200 000 sal verhoog.* ✓✓O	2O valid conclusion (2)	F L4 M
2.2.1	Cost of sanitation / *Koste van sanitasie* = R228,06 ✓RT = R228,10 ✓R	**AO** 1RT correct amount 1R correct rounding (2)	F L2 M
2.2.2	Tariff before increase / *Tarief voor verhoging* ✓RT R16,03 – R0,66 = R15,37 ✓A Cost of sanitation / *Koste vir sanitasie* 4,1 kℓ × R15,37 ✓MCA = R63,02 ✓CA	1RT reading from table 1A simplification 1MCA multiply by tariff 1CA simplification	F L3 M

SEE ACADEMY

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	1A simplification	
	Increase / *Verhoging* ✓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 ✓RT 4,2 kℓ × R16,03 = R 67,33 3,15 kℓ × R22,02 = R 69,36 14,65 kℓ × R30,92 = R452,98 = R589,67 ✓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: ✓RT = R443,96 × $\frac{15}{100}$ = R66,59	1RT correct amount	
	Total amount / Totale bedrag = R443,96 + R66,59 ✓MCA = R510,55 ✓CA $= R443,96 \times \frac{115}{100}$	1MCA adding values 1CA simplification	
	Difference in Sanitation Bill / *Verskil in Sanitasierekening* R589,67 – R510,55 ✓MCA = R79,12 ✓CA	1MCA subtracting values 1CA simplification (8)	

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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.* ✓✓O **OR/*OF*** It benefits home owners with smaller properties who pay less. */ Dit bevoordeel eienaars van kleiner huise wat minder gaan betaal.* ✓✓O **OR/*OF*** 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.* ✓✓O	2O correct explanation (2)	F L4 M
		[34]	

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QUESTION/*VRAAG* 3 [24 MARKS/*PUNTE*]			
Q/*V*	**Solution/*Oplossing***	**Explanation/*Verduideliking***	**T&L**
3.1.1	Total value / *Totale waarde* ✓RT = 18,4 + 5,6 + 0,5 + 2,9 + 9,5 + 3,1 + 33,1 + 5,7 + 4,7 ✓MA = 83,5 **OR/*OF*** Total value / *Totale waarde* ✓RT = 1 199,5 – 1 116 ✓MA = 83,5	1RT correct values 1MA adding **OR/*OF*** 1RT both correct values 1MA subtracting (2)	D L1 E
3.1.2	The table value is given in ten thousands. ✓✓O *Die tabelwaarde is gegee in tien duisende.* **OR/*OF*** Rounding issues / *Probleme met afronding* ✓✓O	2O difference in table value from actual value **OR/*OF*** 2O rounding (2)	D L4 M
3.1.3	Number of people / *aantal mense* ✓RT = 365,9 × 10 000 = 3 659 000 **OR/*OF*** 365,9 ten thousand / *tien duisend* ✓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

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Q/*V*	Solution/*Oplossing*	Explanation/*Verduideliking*	T&L
3.1.5	Mean in ten thousand / *Gemiddeld in tien duisend* ✓RT $= \frac{21{,}7 + 7{,}2 + 0{,}5 + 3{,}2 + 9{,}4 + 2{,}4 + 36{,}6 + 5{,}8 + 6{,}3}{9}$ ✓MA $= \frac{93{,}1}{9}$ ✓S $= \frac{1\,168{,}1 - 1\,075}{9}$ = 10,34444 Mean = 103 444,4 **OR/*OF*** 103 444 ✓CA	1RT adding correct values 1MA concept of mean 1S simplification 1CA correct mean **NPR** (4)	D L2 M
3.2.1	Quarter / *Kwartaal* 3 3rd / *3de* Third / *Derde* ✓✓RT	2RT correct quarter (2)	D L1 E
3.2.2	Number of unemployed / A*antal werkloos* ✓RT 7,6 million + 183 000 ✓C 7 600 000 + 183 000 = 7 783 000 ✓CA **OR/*OF*** ✓RT 7,6 million + 0,183 million ✓C =7,783 million / *miljoen* ✓CA	1RT correct values 1C correct conversion 1CA simplification **OR/*OF*** 1RT correct values 1C correct conversion 1CA simplification (3)	D L2 M

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

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QUESTION/*VRAAG* 4 [33 MARKS/*PUNTE*]			
Q/*V*	**Solution/*Oplossing***	**Explanation/*Verduideliking***	**T&L**
4.1.1	Tax Payable (before rebates) = R115 762 + [36% × (annual taxable income – 488 700)] *Belasting betaalbaar (voor korting)* = R115 762 + *[36% × (jaarlikse belasbare inkomste 488 700)]* $\text{Tax payable} = \text{R}115\,762 + [\frac{36}{100} \times (495\,602 - 488\,700)]$ ✓SF = R115 762 + 2 484,72 ✓MA = R118 246,72 ✓CA	**AO** 1SF substituting value 1MA adding values 1CA simplification **NPR** (3)	F L2 E
4.1.2	Monthly tax (before rebate) / *Maandelikse belasting (voor belastingkorting)* = R118 246,72 ÷ 12 ✓MA = R9 853,89 ✓A After rebate / *Na belastingkorting* ✓MA = R9 853,89 – R1 368,75 = R8 485,14 ✓MCA Monthly taxable income (before rebate) / *Maandelikse belasting (voor belastingkorting)* = R495 602 ÷ 12 = R41 300,17 ✓A Tax payable (according to table) / *Belasting (volgens tabel)* = R8 491 He is incorrect / *Hy is verkeerd* ✓O **OR/*OF***	**CA from Question 4.1.1** 1MA dividing by 12 1A monthly tax 1MA subtracting rebate 1MCA finding tax after rebate 1A monthly income 1O conclusion **OR/*OF***	F L4 D

SEE ACADEMY

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

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

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

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Q/*V*	Solution/*Oplossing*	Explanation/*Verduideliking*	T&L
4.2.7	Probability / *Waarskynlikheid* ✓RT $\frac{569\,388}{2\,584\,176} \times 100\%$ ✓RT = 22,03% ✓CA	1RT correct numerator 1RT correct denominator 1CA simplification **NPR** (3)	P L2 M
		[33]	

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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 $= \frac{4}{11} \times$ R8 300 000 000 ✓MCA = R3 018 181 818 / R3,018181818 billion / *miljard* ✓CA ***OR/OF*** Total contribution / *Totale bydrae* ✓RT $= \frac{100}{11} \times$ R8 300 000 000 = R75 454 545 454 ✓A WC contribution / *WK bydrae* $= \frac{4}{100} \times$ R75 454 545 454 ✓MCA = R3 018 181 818 ✓CA	1RT all 3 values 1A simplification 1MCA calculating ratio 1CA simplification **OR/*OF*** 1RT correct values 1A simplification 1MCA calculating ratio 1CA simplification **NPR** (4)	F L3
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 = $\frac{1}{6{,}97481}$ ✓A ✓A = 0,143373	1A numerator 1A denominator (2)	F L1 E

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Q/*V*	Solution/*Oplossing*	Explanation/*Verduideliking*	T&L
5.2.3	✓A $= \frac{\text{R1 230 000}}{\text{R1}} \times \text{CAD}\,0{,}084845$ ✓MA = CAD 104 359,35 ✓A **OR/*OF*** ✓A $= \frac{\text{R1 230 000}}{\text{R11,785}} \times \text{CAD1}$ ✓MA = CAD 104 369,9618 = CAD 104 369,96 ✓A	1A correct exchange rate 1MA multiply with exchange rate 1A simplification **OR/*OF*** 1A correct exchange rate 1MA dividing by exchange rate 1A simplification **NPR** (3)	F L3 D
5.2.4	Diversify his income / *Diversifiseer sy inkomste.* ✓✓O **OR/*OF*** The Canadian currency is stronger / *Die Kanadese geldeenheid is sterker as die rand.* ✓✓O **OR/*OF*** He will get a better return on his investment / *Hy sal 'n beter opbrengs kry op sy belegging.* ✓✓O	2O reason (2)	F L4 M

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

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Q/*V*	Solution/*Oplossing*	Explanation/*Verduideliking*	T&L
	OR/*OF*	**OR/*OF***	
5.2.5	Total year 1 / *Totaal jaar 1* ✓A R1 230 000 × 1,081 ✓MCA = R1 329 630 ✓A Total year 2 / *Totaal jaar 2* R1 329 639 × 1,081 = R14 373 30,03 ✓CA Interest rate for 8 months / *Rentekoers vir 8 maande* 8,1% × 8 ÷ 12 = 5,4% ✓A Total after 2 years 8 months / *Totaal na 2 jaar en 8 maande* R1 437 330,03 × 1,054 = R151 4 945,85 ✓CA Difference in interest earned / *Verskil in rente verdien* R1 529 360 – R1 514 945,85 = R14 414,15 ✓CA The statement is valid / *Bewering is geldig.* ✓O	1A calculating 1,081 1MCA multiplying with 1,081 1A amount end year 1 1CA amount end year 2 1A calculating 5,4% 1CA final amount 1CA difference 1O conclusion **NPR** (8)	
		[29]	
		TOTAL/*TOTAAL*: 150	

SEE ACADEMY

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