

**MARKING GUIDELINES /
NASIENRIGLYNE**

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SOUTH AFRICAN COMPREHENSIVE ASSESSMENT INSTITUTE
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SYMBOL / SIMBOOL	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/RG	Reading from a table/graph/diagram/ Lees uit 'n tabel/grafiek/diagram
SF	Correct substitution in a formula/Korrekte vervanging in 'n formule
O	Opinion/Example/Definition/Explanation/ Opinie/Voorbeeld/Definisie/Verduideliking
P	Penalty, e.g. for no units/incorrect rounding off, etc./ Straf, bv. vir geen eenhede/verkeerde afronding, ens.
R	Rounding off/Afronding
NPR	No penalty for rounding or omitting units/ Geen penalisering vir afronding of weglating van eenhede nie
AO	Answer only, if correct, full marks/ Slegs antwoord, indien korrek, volpunte



QUESTION/VRAAG 1

	Solution/Oplossing	Explanation/Verduideliking	
1.1.1	✓MA ✓A 2025 – 1996 = 29 years/jaar	1 MA Subtracting/ <i>Aftrek</i> 1 A 29 (2)	L1 D
1.1.2	False/Onwaar ✓✓A	2 A False/Onwaar (2)	L1 F
1.1.3	30 000 000 000 ✓✓A	2 A rewrite in billion/ <i>herskryf in miljard</i> (2)	L1 D
1.1.4	Impossible/Onmoontlik ✓✓A	2 A Impossible/ <i>Onmoontlik</i> (2)	L1 P
1.2.1	False/Onwaar ✓✓A	2 A False/Onwaar (2)	L1 P
1.2.2	✓MA ✓A 1900 Packs/pakke x 49% = 931 cards/kaarte	1 MA 1900 x 49% 1 A 931 (2)	L1 P
1.2.3	Elesa's Sparkle Full Art ✓✓A Accept/Aanvaar: Ultra Rare and/en 1/613	2 A correct card name/korrekte kaart naam (2)	L1 P
1.3.1	Stacked Bar Graph/Gestapelde staafgrafiek ✓✓A Accept/Aanvaar: Compound Bar Graph/Saamgestelde staafgrafiek	2 A correct graph/ korrekte grafiek (2)	L1 D
1.3.2	Dollar ✓✓A Accept/Aanvaar: \$ and/en American dollar/ Amerikaanse dollar and/en USA/VSA dollar	2 A correct currency/ Korrekte wisselkoers (2)	L1 F
1.3.3	Merchandise/Handelsware + Movies/Flieks + Museum/Museum ✓MA \$80B + 0,023B + \$0,003B = \$80,026 billion/ \$80M + 0,023M + \$0,003M = \$80,026 miljard ✓A Accept/Aanvaar: 80 026 000 000	1 MA adding correct values/optel van korrekte waardes 1 A 80,026 billion/ miljard (2)	L1 F
1.3.4	Hello Kitty ✓✓A	2 A correct/korrekte franchise (2)	L1 D
1.3.5	Star Wars ✓✓A	2 A correct/korrekte franchise (2)	L1 D



1.3.6	\$4,45M or/of \$4 450 000 ✓✓A	2 A correct wording/ <i>korrekte bewoording</i> (2)	L1 F
1.3.7	$\begin{aligned} &\quad \quad \quad \checkmark \text{RG} \quad \quad \checkmark \text{M} \\ A &= \$36,143\text{B/M} - \$30,25\text{B/M} - \$1,549\text{B/M} \\ &\quad - \$0,0021\text{B/M} \\ A &= 4,3419\text{B/M} \end{aligned}$	1 RG correct values from the graph/ <i>korrekte waardes van</i> <i>die grafiek</i> 1 M subtracting/ <i>af trek</i> (2)	L1 F
1.3.8	The/Die Mario franchise✓✓ A RG	2 A RG correct franchise from graph/ <i>korrekte franchise</i> <i>vanaf grafiek</i> (2)	L1 D
[30]			



QUESTION/VRAAG 2

	Solution/Oplissing	Explanation/Verduideliking
2.1		
2.1.1	Tariff is a cost rate for a service or product./ <i>Tarief is 'n kostekoers vir 'n diens of produk.</i> ✓✓A	2 A correct definition/ <i>korrekte definisie</i> (2) L2 F
2.1.2	eThekwini-Domestic ✓✓RT	2 RT eThekwini-Domestic (2) L2 F
2.1.3	± R1,00 ✓✓RT	2 RT ± R1,00 (2) L2 F
2.1.4	Esk-HomePower4 ✓✓RT	2 RT Esk-HomePower4 (2) L2 F
2.1.5	eThekwini-Domestic ✓✓RT	2 RT eThekwini-Domestic (2) L2 F
2.1.6	Joburg-Prepaid ✓✓RT	2 RT Joburg-Prepaid (2) L2 F
2.2.1	✓C 500 kWh x R1,009 = R504,50 ✓A 500 kWh x R1,145 = R572,50 1000 kWh x R1,219 = R1219,00 ✓CA 1000 kWh x R1,348 = R1348,00 500 kWh x R1,446 = <u>R723,00</u> ✓CA TOTAL excl. VAT = R4367,00 / TOTAAL BTW uitgesluit = R4 367,00✓ CA	1 C convert cents to Rand/ <i>herlei sente na rande</i> 1 A R504,50 1 CA 1219,00 1 CA R723,00 1 CA Total/ <i>totaal</i> (5) L2 F
2.2.2	Eskom Homepower4 (0-600) 93,6 (600+) 150,5+ daily charge/ daaglikse heffing R2,45 600 kWh x R0,936 = R561,60 ✓ MA 2 900 kWh x R1,505 = R4 364,50 ✓MCA ✓A 28 days/dae x R2,45 = <u>R68,60</u> ✓MCA Total excl. VAT = R4 994,70 Totaal BTW uitgesluit = R4 994,70 ✓CA	1 MA R561,60 1 MCA R4 364,50 1 A 28 day/ <i>dag</i> 1 MCA R68,60 1 CA Total excl. VAT/ <i>Totaal BTW uitgesluit</i> (5) L3 F



2.2.3	<u>eThekweni/Durban Domestic:</u> $3500 \text{ kWh} \times R1,231 = R4\ 308,50 \checkmark \text{MCA}$ $+15\% \text{ VAT/BTW} = \underline{R646,278}$ TOTAL/TOTAAL = <u>R4 954,78</u> ✓CA <u>Ekurhuleni Standard:</u> $600 \text{ kWh} \times R0,899 = R539,40 \checkmark \text{A}$ $100 \text{ kWh} \times R1,505 = R150,50 \checkmark \text{A}$ $2800 \text{ kWh} \times R2,508 = R7\ 022,40 \checkmark \text{A}$ $+15\% \text{ VAT/BTW} = \underline{R1\ 156,845}$ TOTAL/TOTAAL = <u>R8 869,15</u> ✓CA The resident is incorrect they pay less than Ekurhuleni Standard. <i>Die inwoner is verkeerd. Hulle betaal minder as Ekurhuleni Standard. ✓O</i> OR/OF <u>eThekweni/Durban Domestic (excluding VAT/BTW uitgesluit):</u> $\checkmark \text{MCA}$ $3500 \text{ kWh} \times R1,231 = \underline{R4\ 308,50} \checkmark \text{CA}$ <u>Ekurhuleni Standard (excluding VAT/BTW uitgesluit):</u> $600 \text{ kWh} \times R0,899 = R539,40 \checkmark \text{A}$ $100 \text{ kWh} \times R1,505 = R150,50 \checkmark \text{A}$ $2800 \text{ kWh} \times R2,508 = \underline{R7\ 022,40} \checkmark \text{A}$ TOTAL/TOTAAL = <u>R7 712,30</u> ✓CA The resident is incorrect they pay less than Ekurhuleni Standard. <i>Die inwonder is verkeerd. Hulle betaal minder as Ekurhuleni Standard. ✓O</i>	1 MCA R4 308,50 1 CA R4 954,78 1 A R539,4 1 A R150,50 1 A R7 022,40 1 CA R8 869,15 1 O Incorrect/nie korrek nie OR/OF 1 MCA 3500xR1,231 1 CA R4 308,50 1 A R539,40 1 A R150,5 1 A R7 022,40 1 CA R7 712,30 1 O Incorrect/verkeerd (7)	L4 F
2.2.4	$\checkmark \text{MA}$ $600 \text{ kWh} \times R1,231 = R738,60 \checkmark \text{A}$ $15\% \text{ VAT/BTW} = \underline{R110,79} \checkmark \text{MA}$ Total incl. VAT = R849,39/ Totaal BTW ingesluit = R849,39 ✓ A	1 MA 600 x 1,231 1 A R738,60 1 MA 15% VAT/BTW R110,79 1 A R849,39 (4)	L3 F



2.3	<u>Original rate/Oorspronklike heffing:</u> $R500 \div R2.41 = 207,47$ kWh of electricity/ <i>elektrisiteit</i>. ✓ MA <u>Increased rate/Verhoogde heffing:</u> $R500 \div R2.72 = 183,82$ kWh of electricity/ <i>elektrisiteit</i>. ✓ MA Difference/<i>verskil</i> = $207,47 \text{ kWh} - 183,82 \text{ kWh}$ ✓ M Difference/<i>verskil</i> = $23,65 \text{ kWh}$ ✓ CA Difference/<i>verskil</i> ≈ 24 kWh less electricity/<i>minder</i> <i>elektrisiteit</i> ✓ RO	1 MA 207,47 kWh 1 MA 183,82 kWh 1 M subtract/<i>afrek</i> 1 CA 23,65 kWh 1 RO 24 kWh less/ <i>minder</i> (5)	L3 F
[38]			



QUESTION/VRAAG 3

	Solution/Oplissing	Explanation/Verduideliking	
3.1.1	11 social/sosiale media platforms ✓✓ RT	2 RT 11 platforms (2)	L1 D
3.1.2	2, 19, 23, 25, 26, 28, 28, 35, 44, 61, 87 ✓✓RT	2 RT ascending order/stygende orde (2)	L1 D
3.1.3	Mode (Men)/Modus (Mans) = 28 ✓✓ RT	2 RT 28 (2)	L1 D
3.1.4	✓ RT ✓RT Mean (Women)/Gemiddeld (Vrouens) = $439 \div 11$ = 39,91 ✓A	1 RT 439 1 RT 11 1 A 39,91 (3)	L2 D
3.1.5	Numerical/Numeriese data ✓✓ RT	2 RT Numerical/ Numeriese (2)	L1 D
3.1.6	✓✓O The survey is not reliable or valid as the data does not include the respondent who did not give answers/Die opname is nie betroubaar of geldig nie aangesien die data nie die respondente insluit wat nie antwoorde gegee het nie ✓✓ O OR/OF Duplication/herhaling	2 O Not reliable or valid/nie betroubaar of geldig 2 O not including all respondents/sluit nie alle respondente in nie (4)	L4 D
3.1.7	Bar graph/Staafgrafiek ✓✓O Accept: Dual Bar Graph or Compound Bar Graph are more specific./ Aanvaar: Dubbele staafgrafiek of Saamgestelde Staafgrafiek is meer spesifiek.	2 O bar graph/staafgrafiek (2)	L4 D
3.2.1	Box-and-whisker plot/Mond-en-snor diagram ✓✓ A	2 A box-and-whisker/ Mond-en-snor diagram (2)	L2 D
3.2.2	Median/Mediaan (age/ouderdom 18-29) = 46 ✓✓RG	2 RG 46 (2)	L2 D
3.2.3	Age group/Ouderdomsgroep 50-64 has the biggest outlier of/het die grootste uitskieter van 86 ✓✓RG Reason: Senior citizens usually don't spend lots of time on social media./ Rede: Senior burgers spandeer gewoonlik nie baie tyd op sosiale media nie.	2 RG Age/Ouderdom 50-64 (2)	L2 D



3.2.4	Range = Biggest – Smallest/ <i>Omvang = Grootste – Kleinste</i> $92 = 94 - A \checkmark \text{RG}$ $A = 94 - 92 \checkmark \text{MA}$ $A = 2 \checkmark \text{A}$	1 RG 94 1 MA manipulate range/manipuleer <i>omvang</i> 1 A 2 (3)	L3 D
3.2.5	$\text{IQR/IKV} = Q3 - Q1$ $22 = B - 14 \checkmark \text{RG}$ $B = 14 + 22 \checkmark \text{MA}$ $B = 36 \checkmark \text{A}$	1 RG $Q1 = 14$ 1 MA manipulate IQR/manipuleer <i>IKV</i> 1 A 36 (3)	L3 D
3.2.6	50% of the/ <i>van die data</i> $\checkmark \checkmark \text{A}$	2 A 50% (2)	L2 D
[31]			



4.1.8	Premium vehicle category/ <i>Premium voertuig kategorie</i> ✓✓ RT	2 RT premium (2)	L3 F
			[24]



5.3.1	Cash value/<i>kontant waarde</i>: ✓MA ✓A $R6\,000\,000 \times 35 \div 100 = R2\,100\,000$	1 MA x 35% 1 A R2 100 000 (2)	L2 F
5.3.2	Fedgroup: ✓MA = R1 000 000+ (R1 000 000 × 3 years/<i>jaar</i> × 0,1178) ✓SF = R1 353 400 ✓A African Bank: ✓ MA Year/<i>Jaar</i> 1: R1 000 000 + (R1 000 000 × 0,1075) ✓ SF Year/<i>Jaar</i> 1: R1 107 500 Year/<i>Jaar</i> 2: R1 107 500 + (R1 107 500 × 0,1075) Year/<i>Jaar</i> 2: R1 226 556,25 Year/<i>Jaar</i> 3: R1 226 556,25 + (R1 226 556,25 × 0,1075) Year/<i>Jaar</i> 3: R1 358 411,05 ✓A ✓O Both options won't be enough for his cash payment/ <i>Albei opsies sal nie genoeg wees vir sy kontantbetaling nie.</i>	1 MA simple interest/ <i>enkelvoudige rente</i> 1 SF 11,78% 1 A R1 353 400 1 MA compound interest/ <i>saamgestelde rente</i> 1 SF 10,75% 1 A R1 358 411,05 1 O not enough/<i>nie genoeg</i> (7)	L4 F
[27]			
GRAND TOTAL/GROOTTOTAAL: [150]			