

MARKING GUIDELINES / NASIENRIGLYNE

EXAMINATION EKSAMEN	NATIONAL SENIOR CERTIFICATE NASIONALE SENIOR SERTIFIKAAT
GRADE / GRAAD	12
DATE / DATUM	MAY/JUNE 2026 / MEI/JUNIE 2026
SUBJECT / VAK	MATHEMATICAL LITERACY / WISKUNDIGE GELETTERDHEID
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SOUTH AFRICAN COMPREHENSIVE ASSESSMENT INSTITUTE
SUID-AFRIKAANSE KOMPREENSIEWE ASSESSERINGSINSTITUUT

FINAL APPROVED MARKING GUIDELINES / FINAAL GOEDGEKEURDE NASIENRIGLYNE	
DATE OF MEETING / VERGADERINGSDATUM	
UMALUSI MODERATOR / UMALUSI-MODERATOR	
CHIEF MARKER / HOOFNASIENER	
INTERNAL MODERATOR / INTERNE MODERATOR	



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			[30]
	Solution / Oplossing	Explanation / Verduideliking	
1.1.1	2,2 m ✓✓ RT	2 RT 2,2 m (2)	L1 M
1.1.2	11 June / Junie ✓✓ RT	2 RT 11 June / Junie (2)	L1 MP
1.1.3	✓ MA ✓ A 2,1 m – 0,5 m = 1,6 m	1 MA Minus correct values / Minus korrekte waardes 1 A 1,6 m (2)	L1 M
1.1.4	1:04 AM ✓✓ RT	2 RT 1:04 AM (2)	L1 M
1.1.5	✓ MA ✓ A 10:43 – 4:19 = 6 hours / ure 24 min.	1 MA Minus correct values / Minus korrekte waardes 1 A 6 hours / ure 24 min. (2)	L1 M
1.2.1	A circle / 'n Sirkel ✓✓ RT	2 RT Circle / Sirkel (2)	L1 M
1.2.2	Diameter / Deursnee ✓✓ RT	2 RT Diameter / Deursnee (2)	L1 M
1.2.3	✓ MA ✓ A 900 miles / myl ÷ 2 = 450 miles / myl	1 MA Divide by / Deel deur 2 1 A 450 miles / myl (2)	L1 M
1.2.4	✓ MA ✓ A 29 years / jare x 12 = 348 months / maande	1 MA x 12 1 A 348 months / maande (2)	L1 M
1.2.5	C ✓✓ RT	2 RT C (2)	L1 M



1.3.1	6 – 8 feet / voet ✓✓ RT Accept / Aanvaar: 15 feet / voet	2 RT 6–8 feet / voet (2)	L1 M
1.3.2	✓ RT ✓ MA 20 feet / voet x 0,3048 = 6,096 m	1 RT 20 feet / voet 1 MA x 0,3048 (2)	L1 M
1.3.3	Category 2 hurricane / Kategorie 2-orkaan ✓✓ RT	2 RT Cat. / Kat. 2 (2)	L1 MP
1.3.4	True / Waar ✓✓ RT	2 RT True / Waar (2)	L1 MP
1.3.5	Likely / Waarskynlik ✓✓ RT	2 RT Likely / Waarskynlik (2)	L1 P
			[30]



QUESTION / VRAAG 2			[34]
	Solution / Oplossing	Explanation / Verduideliking	
2.1.1	Lafayette River / -rivier ✓✓ RT	2 RT Correct name / <i>Regte naam</i> (2)	L2 MP
2.1.2	Left / Links ✓ RT Right / Regs ✓ RT 34 th street / 34 ^{ste} straat ✓ RT Right / Regs ✓ RT Left / Links ✓ RT	1 RT Left / Links 1 RT Right / Regs 1 RT 34 th street / 34 ^{ste} straat 1 RT Right / Regs 1 RT Left / Links (5)	L2 MP
2.1.3	Church Street / Kerkstraat ✓✓ RT	2 RT Correct street / <i>Korrekte straat</i> (2)	L2 MP
2.2.1	✓ MA ✓ A 2026–1985 = 41 years / <i>jaar</i>	1 MA 2026–1985 1 A 41 years / <i>jaar</i> (2)	L2 M
2.2.2	Number of animals: Different species / <i>Aantal diere: Verskillende spesies</i> ✓ RT ✓ RT 700:150 14:3 ✓ A	1 RT 700 1 RT 150 1 A 14:3 (3)	L2 MP



2.2.3	✓ RT ✓ C 2,6 miles / <i>myle</i> x 1 609,34 = 4 184,284 m ✓ C 4 184,284 m ÷ 1 000 = 4,184284 km ✓ M ✓ A 6 000 steps / <i>treë</i> ÷ 4,184284 km = 1 433,938... ✓ RO ≈ 1 434 steps/km / <i>treë/km</i>	1 RT 2,6 miles / <i>myle</i> 1 C x Conversion / <i>Omskakeling</i> 1 C ÷ 1 000 1 M Rate / <i>Koers</i> 1 A 1433,938 1 RO 1 434 steps/km / <i>treë/km</i> (6)	L3 M
2.2.4	Impossible, the zoo is a smoking free zone. / <i>Onmoontlik, die dieretuin is 'n rookvrye sone.</i> ✓✓ A	2 A Impossible / <i>Onmoontlik</i> (2)	L2 P
2.2.5	5 bathrooms / <i>badkamers</i> ✓✓ RT	2 RT 5 bathrooms / <i>badkamers</i> (2)	L2 MP
2.2.6	The Zoo Farm / <i>Die Dieretuin Plaas</i> ✓✓ RT	2 RT Zoo Farm / <i>Dieretuin Plaas</i> (2)	L2 MP
2.2.7	North / <i>Noord</i> ✓ RT West / <i>Wes</i> ✓ RT	1 RT North / <i>Noord</i> 1 RT West / <i>Wes</i> (2)	L2 MP
2.2.8	True / <i>Waar</i> ✓✓ RT	2 RT True / <i>Waar</i> (2)	L1 MP
2.2.9	11 Gardens / <i>Tuine</i> ✓✓ RT	2 RT 11 gardens / <i>tuine</i> (2)	L1 MP
2.2.10	Two train stations / <i>Twee treinstasies</i> ✓✓ RT	2 RT 2 stations / <i>stasies</i> (2)	L1 MP
			[34]



3.1.3	<u>Total outdoor area / Totale buite-oppervlak:</u> $(9,5 \times 2,7) + (12,5 \times 1,99) + 0,25$ Area circle / <i>Opp sirkel</i> $= 25,65 + 24,875 + (0,25 \times 3,142 \times 12,5 \times 12,5)$ ✓ M ✓ M ✓ MA $= 25,65 + 24,875 + 122,734375$ $= 173,259375 \text{ m}^2$ ✓ CA OR / OF $(9,5 \times 4,69) + (3 \times 1,99) + 0,25$ Area circle / <i>Opp sirkel</i> $= 44,555 + 5,97 + (0,25 \times 3,142 \times 12,5 \times 12,5)$ ✓ M ✓ M ✓ MA $= 44,555 + 5,97 + 122,734375$ $= 173,259375 \text{ m}^2$ ✓ CA <u>Number of tortoises / Aantal skilpaaie:</u> ✓ MCA $173,259375 \text{ m}^2 \div 40 \text{ m}^2 = 4,331484375$ ✓ CA ≈ 4 tortoises / <i>skilpaaie</i>	1 M Correct area / <i>Korrekte oppervlak</i> 1 M Correct area / <i>Korrekte oppervlak</i> 1 MA Correct area circle / <i>Korrekte opp sirkel</i> 1 CA Total area / <i>Totale oppervlak</i> OR / OF 1 M Correct area / <i>Korrekte oppervlak</i> 1 M Correct area / <i>Korrekte oppervlak</i> 1 MA Correct area circle / <i>Korrekte opp sirkel</i> 1 CA Total area / <i>Totale oppervlak</i> 1 MCA $\div 40 \text{ m}^2$ 1 CA 4 animals / <i>diere</i> (6)	L3 M
3.1.4	<u>Litres of water / Liters water:</u> ✓ MA $4 \text{ m}^2 \times 2 \text{ m} \times 6$ tortoises / <i>skilpaaie</i> $= 48 \text{ m}^3$ ✓ C ✓ A $48 \text{ m}^3 \times 1\,000 = 48\,000$ litres of water / <i>liters water</i>	1 MA $\times 2 \times 6$ animals / <i>diere</i> 1 C $\times 1\,000$ 1 A 48 000 L (3)	L3 M



3.1.5	Area shelter / <i>Opp skuiling</i> $= 4,69 \text{ m} \times 3 \text{ m}$ $= 14,07 \text{ m}^2 \checkmark \text{ A}$ Area indoor / <i>Opp binne</i> $= 12,5 \text{ m} \times 3 \text{ m}$ $= 37,5 \text{ m}^2 \checkmark \text{ A}$ Area indoor / <i>Opp binne</i> ÷ Area shelter / <i>Opp skuiling</i> $37,5 \text{ m}^2 \div 14,07 \text{ m}^2 = 2,665245203$ $\checkmark \text{ MCA}$ OR / OF Area shelter / <i>Opp skuiling</i> x 2 $\checkmark \text{ MCA}$ $14,07 \text{ m}^2 \times 2 = 28,14 \text{ m}^2$ but indoor / <i>maar binne</i> is $37,5 \text{ m}^2$ OR / OF Area indoor / <i>Opp binne</i> ÷ 2 $\checkmark \text{ MCA}$ $37,5 \text{ m}^2 \div 2 = 18,75 \text{ m}^2$ but shelter / <i>maar skuiling</i> is $14,07 \text{ m}^2$ $\checkmark \text{ O}$ The zookeeper is incorrect, it is more than double. / <i>Die dieretuinsigter is</i> <i>verkeerd, dit is meer as dubbel.</i>	1 A $14,07 \text{ m}^2$ 1 A $37,5 \text{ m}^2$ 1MCA ÷ Areas / <i>Opp</i> OR / OF 1MCA Double area / <i>Dubbel opp</i> OR / OF 1 MCA Half area / <i>Halwe opp</i> 1 O Incorrect / <i>Verkeerd</i> (4)	L4 M
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3.2.1	<u>Old habitat / Ou habitat:</u> $1\ 300 + 2\ 300 = 3\ 600$ square feet / <i>vierkante voet</i> <u>New habitat / Nuwe habitat:</u> $7\ 300 + 1\ 620 + 3\ 800 + 1\ 860 = 14\ 580$ square feet / <i>vierkante voet</i> Difference / <i>Verskil:</i> ✓ MA ✓ MA ✓ A $14\ 580 - 3\ 600 = 10\ 980$ square feet more / <i>vierkante voet meer</i>	1 MA 14 580 1 MA – 3 600 1 A 10 980 (3)	L2 M
3.2.2	<u>Percentage increase / Persentasietoename:</u> ✓ MA ✓ A $10\ 980 \div 3\ 600 \times 100 = 305\%$	1 MA % calculation / <i>berekening</i> 1 A 305% (2)	L2 M
3.2.3	✓ MA $33\ 000$ pound / <i>pond</i> $\times 0,0714286 = 2\ 357,1438$ stone / <i>stone</i> ✓ MA $2\ 357,1438$ stone / <i>stone</i> $\div 0,157473 = 14\ 968,55842$ kg ✓ A $\approx 14\ 968,56$ kg He is correct. / <i>Hy is reg.</i> ✓ O	1 MA Convert to stone / <i>Omskakeling na stone</i> 1 MA Convert to kg / <i>Omskakeling na kg</i> 1 A 14 968,56 kg 1 O Correct / <i>Reg</i> (4)	L4 M



3.2.4	Habitat C = $3\,800 \div 10,7639$ $= 353,0319 \text{ m}^2 \checkmark \text{ MA}$ Habitat C area / <i>oppervlakte</i> – Area of 1 tiger / <i>Oppervlakte van 1 tier</i>: $\checkmark \text{ MA}$ $353,0319 \text{ m}^2 - 144 \text{ m}^2 = 209,0316 \text{ m}^2$ - 1 extra tiger / <i>1 ekstra tier</i> $\checkmark \text{ MA}$ $209,0316 \text{ m}^2 - 100 \text{ m}^2 = 109,0316 \text{ m}^2$ - 1 extra tiger / <i>1 ekstra tier</i> $\checkmark \text{ MA}$ $109,0316 \text{ m}^2 - 100 \text{ m}^2 = 9,0316 \text{ m}^2$ $\checkmark \text{ O}$ Zookeeper is wrong. Only 3 tigers, not 4 tigers. / <i>Dieretuinopsigter is verkeerd. Slegs 3 tiere, nie 4 tiere nie.</i>	1 MA Convert to / <i>Omskakeling na m²</i> 1 MA – 144 m^2 1 MA – 100 m^2 1 MA – 100 m^2 1 O Wrong, 3 tigers / <i>Verkeerd, 3 tiere</i> (5)	L4 M
3.3.1	Ring-tailed lemur / <i>Ringstertlemur</i> $\checkmark \checkmark \text{ RT}$	2 RT Correct animal / <i>Korrekte dier</i> (2)	L1 M
3.3.2	3 cooked vegetables / <i>gekookte groentes</i> $\checkmark \checkmark \text{ RT}$	2 RT 3 cooked / <i>gekook</i> (2)	L1 M
3.3.3	12 times / <i>keer</i> $\checkmark \checkmark \text{ RT}$	2 RT 12 times / <i>keer</i> (2)	L1 M



3.3.4	<u>Carrots per day / Wortels per dag:</u> 200 g + 100 g + 80 g = 380 g ✓MA <u>Carrots per animal / Wortels per dier:</u> 380 g x 12 = 4 560 g ✓ MA <u>Carrots per week / Wortels per week:</u> ✓ MA ✓ C ✓ A 4 560 x 7 = 31 920 ÷ 1 000 = 31,92 kg	1 MA 380 g 1 MA x 12 1 MA x 7 days / dae 1 MA ÷ 1 000 1 A 31,92 kg (5)	L3 M
			[44]



QUESTION / VRAAG 4 [42]			
	Solution / Oplossing	Explanation / Verduideliking	
4.1.1	Number scale / Numeriese skaal ✓✓ A	2 A Correct scale / Korrekte skaal (2)	L2 MP
4.1.2	Height / Hoogte = $58,66 \times 2,54$ ✓ C = 148,996 ≈ 149 cm ✓ MA Width / Breedte = $22,44 \times 2,54 = 56,9976$ ≈ 57 cm ✓ MA	1 C x 2,54 1 MA 149 cm 1 MA 57 cm (3)	L2 M
4.1.3	<u>Real life / Werklikheid:</u> Height / Hoogte = $327,8 \text{ m} \times 100$ = 32 780 cm ✓ M Width / Breedte = $125,4 \text{ m} \times 100$ = 12 540 cm ✓ M <u>Scale height / Skaalhoogte:</u> 149: 32 780 ✓ MCA 1: 220 ✓ CA <u>Scale width / Skaalbreedte:</u> 57: 12 540 ✓ MCA 1: 220 ✓ CA ✓ O The scale of / Die skaal van 1:200 is not correct / nie korrek nie. The correct scale / Die korrekte skaal is 1:220.	Follow up / Opvolg van 4.1.2 1 M 32 780 cm 1 M 12 540 cm 1 MCA Ratio / Verhouding 1 CA 1:200 1 MCA Ratio / Verhouding 1 CA 1:200 1 O Not correct / Nie korrek nie (7)	L4 MP
4.1.4	Assembly plan / Monteringsplan ✓✓ RT	2 RT Assembly plan / Monteringsplan (2)	L1 MP



4.1.5	$\checkmark$ RT $\checkmark$ RT $\checkmark$ A $P = 4 \div 6 \times 100 = 66,67\%$	1 RT 4 Blue / <i>Blou</i> 1 RT 6 Total / <i>Totaal</i> 1 A 66,67% (3)	L2 P
4.1.6	E $\checkmark$ RT C $\checkmark$ RT A $\checkmark$ RT B $\checkmark$ RT D $\checkmark$ RT	1 RT E 1 RT C 1 RT A 1 RT B 1 RT D (5)	L3 MP
4.2.1	Bar scale / <i>Staafskaal</i> $\checkmark\checkmark$ RT	2 RT Correct scale / <i>Korrekte skaal</i> (2)	L2 MP
4.2.2	The Eiffel Tower / <i>Die Eiffeltoring</i> $\checkmark\checkmark$ RT	2 RT The Eiffel Tower / <i>Die Eiffeltoring</i> (2)	L2 MP
4.2.3	B 1 $\checkmark\checkmark$ RT	2 RT B1 (2)	L2 MP
4.2.4	The Pantheon / <i>Die Pantheon</i> $\checkmark\checkmark$ RT	2 RT Pantheon (2)	L2 MP
4.2.5	$\checkmark$ MA $\checkmark$ C $6 \text{ cm} \times 0,05 \text{ km} = 0,3 \text{ km} \times 1\,000$ $= 300 \text{ m}$ $\checkmark$ A	1 MA $6 \times 0,05$ 1 C $\times 1\,000$ 1 A 300 m (3)	L3 M

[illegible]



<u>Stacked flat / Plat gestapel:</u> Length of box / <i>Lengte van die boks</i> = 20,32 cm Length of / <i>Lengte van 'n macaron</i> = 4,5 cm Width of box / <i>Breedte van die boks</i> =7,62 cm Width of / <i>Breedte van 'n macaron</i> = 4,5 cm Height of box / <i>Hoogte van die boks</i> = 5,40 cm Height of / <i>Hoogte van 'n macaron</i> = 2,7 cm <u>Number of macarons stacked flat / Aantal macarons regop gestapel:</u> Length / <i>Lengte</i> = $20,32 \div 4,5$ = 4,515555556 $\approx$ 4 macarons ✓ A Width / <i>Breedte</i> = $7,62 \div 4,5$ = 1,693333333 $\approx$ 1 macaron ✓ A Height / <i>Hoogte</i> = $5,40 \div 2,7$ cm = 2 macarons ✓ A TOTAL / TOTAAL: $1 \times 2 \times 4 = 8$ macarons ✓ CA Correct. You can get 1 more macaron into the box if you stack them flat. / <i>Korrek. Jy kan 1 meer macaron in die boks kry indien jy dit plat stapel.</i> ✓ O		(9)
		[42]
GRAND TOTAL / GROOTTOTAAL: [150]		