

You have Downloaded, yet Another Great Resource to assist you with your Studies ©

Thank You for Supporting SA Exam Papers

Your Leading Past Year Exam Paper Resource Portal

Visit us @ www.saexampapers.co.za





basic education

Department: **Basic Education REPUBLIC OF SOUTH AFRICA**

SENIOR CERTIFICATE EXAMINATIONS/ NATIONAL SENIOR CERTIFICATE EXAMINATIONS SENIORSERTIFIKAAT-EKSAMEN/ NASIONALE SENIORSERTIFIKAAT-EKSAMEN

DEPARTMENT OF BASIC RDUCATION PRIVATE BAG X895, PRETORIA 0001

PUBLIC EXAMINATION

MATHEMATICAL LITERACY P2/ WISKUNDIGE GELETTERDHEID V2

MAY/JUNE/MEI/JUNIE 2024

MARKING GUIDELINES/NASIENRIGLYNE

MARKS/PUNTE: 150

Symbol/Kode	Explanation/Verduideliking
MA	Method with accuracy/Metode met akkuraatheid
CA	Consistent accuracy/Volgehoue akkuraatheid
A	Accuracy/Akkuraatheid
С	Conversion/Herleiding
S	Simplification/Vereenvoudiging
RT	Reading from a table/a graph/document/diagram/Lees vanaf tabel/grafiek/diagram
SF	Correct substitution in a formula/Korrekte vervanging in formule
0	Opinion/Explanation/Reasoning / Opinie/Verduideliking/Redenasie
P	Penalty, e.g. for no units, incorrect rounding off, etc./Penalisasie, bv. vir geen
	eenhede/verkeerde afronding, ens.
R	Rounding off/Afronding
NPR	No penalty for correct rounding/Geen penalisasie vir korrekte afronding nie
NPU	No penalty for omitting correct unit/Geen penalisasie vir die uitlos van die korrekte
	eenheid nie
AO	Answer only/Slegs antwoord
MCA	Method with constant accuracy/Metode met volgehoue akkuraatheid
RCA	Rounding consistent with accuracy/Afronding met volgehoue akkuraatheid

These marking guidelines consist of 18 pages and 2 pages with notes. Hierdie nasienriglyne bestaan uit 18 bladsye en 2 bladsye met notas.

	External Modera	itors	Internal Moder	rators
APPROVED	R I Singh	E Cronje	L R deWaal	S Tune /
ON		Ĭ.	As Ca. O	2/-
14 May 2024	51	a l'	Seller	1
Conveight reserved/	Kanierea vaarhehau		DBE IN	turn over/Blaai om asseblief

Copyright reserved/Kopiereg voorbehou

UMALUSI

KT. MODERATOR

SC/NSC/SS/NSS - Marking Guidelines/Nasienriglyne

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 did NOT redo 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 or breakdown.
- If the candidate presents any extra solution when reading from a graph, table, layout plan and map, then penalise for every extra item presented.
- As a general marking principle, if a candidate has incurred one mistake and there is evidence of sound
 mathematics thereafter, then that candidate should lose one mark only.
- A conclusion mark can only be given if relevant calculations precede it (at least 1 mark before conclusion).
- · Rounding is an independent mark.
- No penalty for rounding (NPR) if the first decimal is correct, except questions involving money.

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 of afbreuk 'break down' nie
- Wanneer 'n kandidaat aflesings vanaf 'n grafiek, tabel, uitlegplan en kaart geneem en ekstra antwoorde gee, penaliseer vir elke ekstra item.
- 'n Algemene nasienbeginsel is dat indien 'n kandidaat een fout maak en daarna voortgaan met korrekte wiskunde, dat die kandidaat slegs een punt verloor
- 'n Gevolgtrekkingspunt kan slegs gegee word indien relevante berekeninge dit voorgaan (ten minste een punt voor die gevolgtrekking).
- Afronding tel as 'n onafhanklike punt.
- Geen penalisering vir ronding (NPR) as die eerste desimaal korrek is nie, behalwe as vrae geld insluit.

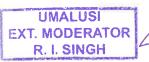
OUES	STION/VRAAG 1 [26 MARKS/PUNTE] Answer Only A	O - full marks	,
Q/V	Solution/Oplossing	Explanation/Verduideliking	T/L
1.1*	1.1.1 E ✓✓A	2A correct option	M L1
	1.1.2 G ✓✓A	2A correct option	P L1
	1.1.3 F ✓✓A	2A correct option	M L1
	1.1.4 B ✓✓A	2A correct option (8)	M L1
1.2.1	✓✓ A Numerical /Number/ ratio scale. Numeriese- / Nommer- /Getalle- /syfer-/verhouding- skaal.	2A type of scale (2)	MP L1 E
1.2.2	 ✓ ✓ A 1 unit on the map is equivalent to 50 000 units in real life. 1 eenheid op die kaart is gelykstaande aan 50 000 eenhede in werklikheid 	2A relationship	MP L1 M
	OR/OF The map is 50 000 times smaller than real life. Die kaart is 50 000 keer kleiner as werklikheid	(2)	

PRIVATE BAG X006, FRETORIA 000

2024 -05- 18

Copyright reserved/Kopiereg voorbehou





Mathematical Literacy/P2/Wiskundige Geletterdheid/V2 3 DBE/May/June/Mei/Junie 2024 SC/NSC/SS/NSS – Marking Guidelines/Nasienriglyne

Q/V	Solution/Oplossing	Explanation/Verduidelik	ing	T/L
1.2.3*	1: 25 000 ✓✓ A	2A correct scale (Accept B)	(2)	MP L1 E
1.3.1*	✓A Rectangle and a circle. Reghoek en 'n sirkel	1A rectangle 1A circle	(2)	M L1 E
1.3.2	√√A 144 km	2A correct answer Accept 144	(2)	MP L1 E
1.3.3*	It is the maximum speed a motorist can travel on the road. Oit is die maksimum spoed wat 'n motoris mag ry op die pad. OR/OF	2A correct explanation.		MP L1 M
	The motorist can cover a distance of 120 km in 1 hour. Die motoris kan 120 km aflê in 1 uur		(2)	3.6
1.3.4*	Distance/Afstand (Jhb – Trompsburg) = 534 − 27 ✓ RT	1RT both correct values		M L1 M
	= 507 km	1A distance NPU	(2)	
1.3.5	North $/N/Noord/N \checkmark \checkmark A$	2A correct direction	(2)	MP L1 E
1.3.6	90 cm 100 ✓ MA	1MA dividing by 100		M L1 E
	= 0,9 m ✓A	1A simplification	(2)	
				[26]

PUBLIC EXAMINATION

Copyright reserved/Kopiereg voorbehou

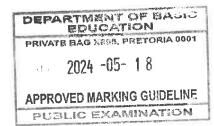
Please turn over/Blaai om asseblief

UMALUSI EXTEMODERATOR PLACEPONIES



Mathematical Literacy/P2/Wiskundige Geletterdheid/V2 4 DBE/May/June/Mei/Junie 2024 SC/NSC/SS/NSS – Marking Guidelines/Nasienriglyne

Q/V	FION/VRAAG 2 [29 MARKS/PUNTE] Solution/Oplossing	Explanation/Verduideliking	T/I
Qi i	Dolution Optosoring		MP
2.1.1	2 ✓✓A	2A correct number	L1
2.1.1		(2)	E_
			MP
2.1.2	6 ✓✓A	2A correct road	L1
	o a a a a a a a a a a a a a a a a a a a	(2)	M
			MI
2.1.3*	7 ✓✓A	2A correct number	L1
2.1.5	, , , , ,	(2)	E
			P
2.1.4*	c ^{✓✓} A	2A correct choice	L2
2.1.4	C	(2)	M
			M
2.1.5	✓✓A South East (SE) / Suidoos (SO)	2A correct direction	L2
	South East (SE) / Suittoos (SO)	(2)	M
			M
2.1.6	Length / $Lengte = 65 \text{ m}$		L3
2.1.0	= 65 000 mm ✓C	1C conversion	M
	= 03 000 mm · C	To conversion	
	Scale/ Skaal: 1:8 000		
	n: 65 000		
	11 . 03 000		
	65 000 ✓ MA	1MA dividing	
	n =	111111111111111111111111111111111111111	
	8 000 VCA	1CA simplification	
	= 8.125 mm	1R rounding	
	≈ 8 mm ✓R	1K founding	
	OR/OF	OR/OF	
	Scale/Skaal: 1:8 000		
	n:65		
	$n = \frac{65}{2000}$ \checkmark MA	1MA dividing	
	$\mathbf{n} = \frac{1}{8000}$		
	(C)	1CA simplification	
	= 0,008125 m	-	
	= 8,125 mm ✓C	1C conversion	
	≈ 8 mm	1R rounding	
		(4)	

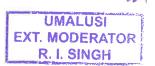


Copyright reserved/Kopiereg voorbehou









Mathematical Literacy/P2/Wiskundige Geletterdheid/V2 5 DBE/May/June/Mei/Junie 2024 SC/NSC/SS/NSS – Marking Guidelines/Nasienriglyne

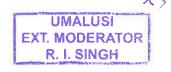
			3 / 5
2	2.2.1 C ✓A 2.2.2 E ✓A 2.2.3 D ✓A 2.2.4 B ✓A 2.2.5 A ✓A	5A correct order (5)	MP L2 M
h c p (Only use the go cart on level ground. / smooth, flat, nard, tarred, road surface Gebruik die knortjor slegs op gelyke grond/ gladde, plat, harde, pad, geteerde oppervlakte OR/OF Do not use the vehicle on a long grassy surface. Moet nie in lang gras ry nie.	2O Explanation for 1 st picture or for 2 nd picture	MP L4 E
	$X = 2840 - 1476 - 1024 = 340$ \checkmark CA OR/OF \checkmark MA $X = 565 - 163 - 62 = 340$ \checkmark CA	1MA subtracting from total 1CA simplification AO (2)	P L1 E
2.4.2 I	$P_{\text{(not a horse)}} = \frac{2840 + 796}{4996} \qquad \checkmark RT$ $= \frac{3636}{4996}$	1RT numerator 1RT denominator	P L2 M
I	$= \frac{909}{1249} \qquad \checkmark A$ \mathbf{OR}/\mathbf{OF} $P_{\text{(horse)}} = \frac{1360}{4996} \qquad \checkmark RT$	1A simplification OR/OF 1RT both values	
I	$P_{\text{(not a horse)}} = 1 - \frac{1360}{4996}$ \checkmark MCA $= \frac{909}{1249} \checkmark A$	1MCA subtracting from 1 1A simplification	
2.4.3 I		1RT 1 st value 1RT 2 nd value correctly place 1CA simplification NPR	P L3 M
		(3)	[29]

PRIVATE BAS X895, PRETORIA 0001

2024 -05- 18

Copyright reserved/Kopiereg voorbehou





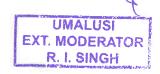
Mathematical Literacy/P2/Wiskundige Geletterdheid/V2 6 DBE/May/June/Mei/Junie 2024 SC/NSC/SS/NSS – Marking Guidelines/Nasienriglyne

	Q/V	[ION/VRAAG 3 [33 MARKS/PUNTE]] Solution/Oplossing	Explanation/Verduideliking	T/L
	QIV	Solution Opiossing		M
	2 1 1	2 000 kW ✓✓RT	2RT correct kW	L1
	3.1.1	Z UUU KYY Y Y KI	NPU	E
			(2)	-
		VV0		M
	3.1.2	To allow rotor blade to produce more energy.		L4
		Om met die rotorlem meer energie op te wek.		E
		OR/OF		
		Advanced technology to have material that can		
		allow a big structure to stand firm on the ground.		
		Verbeterde tegnologie om materiaal te hê wat		
		toelaat dat so 'n groot struktuur standvastig kan		
		staan		
		OR/OF	2O reason (more electricity)	
		Larger rotor diameters allow wind turbines to		
		sweep more area, capture more wind and produce		
		more electricity		
		Groter rotormiddellyne laat die windturbines 'n		
		groter area dek, meer wind vang en so meer krag		
		opwek		
		OR/OF		
		Demand for electricity increased/ demand for		
		cleaner electricity		
		Verhoogde aanvraag vir elektrisiteit/ aanvraag vir	200	
		skoner elektisiteit	(2)	M
	3.1.3	Max. height (in m) = Poles height + radius of		L2
	3.1.5	rotor		M
		Maks. Hoogte (in m) = Paal hoogte + radius van		
		rotor ✓ RT		
		124	1RT both correct values	
	-	$= 114 + \frac{124}{2}$ \checkmark MA	1MA divide by 2 to determine	
7	D	_	the radius	
N S	T D	= 114 + 62		
2024 -05- 18		= 176 ✓CA	1CA simplification	
		OR/OF	OR/OF	
1 79	na m	Pole + rotor/ Paal + rotor		
CO 5	20	=124 + 114 ✓ RT = 238	1RT both correct values	
RIA 00	200	Maximum height /Maksimum hoogte in m		
000	1 31	$= 238 - (124 \div 2) $ \checkmark MA	1MA divide by 2 to determine	
	111	= 238 - 62	the radius	
		= 176 ✓CA	1CA simplification	
			AO	
			(3)	1

Copyright reserved/Kopiereg voorbehou







Mathematical Literacy/P2/Wiskundige Geletterdheid/V2 7 DBE/May/June/Mei/Junie 2024 SC/NSC/SS/NSS – Marking Guidelines/Nasienriglyne

\mathbf{Q}/V	Solution/Oplossing	Explanation/Verduideliking	T/L
3.1.4*	Radius = $\frac{124}{2}$ = 62 \checkmark A Area /Oppervlakte	1A radius	M L4 M
	$= 3,142 \times (62)^2 \checkmark \text{ SF}$	1SF substitution squared	
	$= 12\ 077,848\ m^2 \checkmark CA$	1CA simplification	
	✓ O Not valid. / Nie geldig nie	10 invalid (4)	
3.1.5	% increase/verhoging = $\frac{\checkmark RT}{5000 - 800} \times 100\% \checkmark MA$ $\checkmark A$	1RT 1 st correct value 1A denominator 1MA percentage	M L2 M
	= 525 % ✓CA OR/ <i>OF</i>	1CA simplification OR/OF	
	Current percentage / Huidige persentasie $ \sqrt{RT} = \frac{5000}{800} \times 100\% $	1RT 1 st correct value 1A denominator	
	= 625%		
	% increase/verhoging 625% − 100% ✓ MA = 525 % ✓ CA	1MA percentage difference 1CA simplification (4)	
3.1.6*	✓✓ A Generators OR solar power OR hydro-power OR nuclear power Kragopwekkers OF sonkrag OF hidro-elektrisiteit OF	2A source	M L1 E
	kernkrag ✓ RT ✓ SF	1RT correct values	M
3.2.1	Perimeter/ $Omtrek = 2 \times (2,3 + 2,3 + 2,3 + 3) \text{ m}$ $\checkmark \text{ MA}$ $= 2 \times (6,9 + 3) \text{ m}$	1SF substitution 1MA 6,9	L2 E
	= 19,8 m ✓ CA	1CA answer	
	OR/OF Perimeter/Omtrek \checkmark RT \checkmark SF $= 3 + 2,$	OR/OF 1RT correct values 1SF substitution 1MA 6,9 1CA answer (4)	
3.2.2*	\checkmark RT \checkmark A 5+7+4=16 boards /planke \checkmark CA	1RT correct numbers 5 and 7 1A on 4 1CA simplification adding AO (3)	M L3 M

PRIVATE BAG X593, PRETORIA 0001

PRIVATE BAG X593, PRETORIA 0001

2024 -05- 18

Copyright reserved/Kopiereg voorbehou

Please turn over/Blaai om asseblief

UMALUSI EXT. MODERATOR R. I. SINGH Mathematical Literacy/P2/Wiskundige Geletterdheid/V2 8 DBE/May/June/Mei/Junie 2024 SC/NSC/SS/NSS – Marking Guidelines/Nasienriglyne

	Q/V	Solution/Oplossing	Explanation/Verduideliking	T/J
				M L3
	(3.2.3)	Height /hoogte B= $\frac{5}{7} \times 0.5 \text{ m}$		D
		$= 0.3571428571 \text{ m}^{\checkmark} \text{ A}$	1A height box B	
		$Vol B = (2.3 \times 3 \times 0.3571428571)m^3$		
		$= 2,464285714m^3 \checkmark CA$	1CA volume of B box	
		Vol A = $(2.3 \times 3 \times 0.5) m^3 \checkmark SF$	1SF volume of A box	
		$= 3.45m^3 \qquad \checkmark \text{ A}$	1A simplification 3,45 CA total volume	
		Total/ $Totaal = 2,4642514m^3 + 3,45m^3$ = 5,914285714 $m^3 \checkmark CA$		
		Capacity / $Kapasiteit = 1\ 000 \times 5,914285714$	1CA answer in litres	
		= 5 914,285714 litres. ✓ CA	OR/OF	
		OR/OF		
		Height of section B/ Hoogte van boks B		
		$=\frac{5}{7}\times0.5 \text{ m}$	1A height box B	
		= 0,3571428571 m \checkmark A		
		Vol = (length×width×height) + (length×width×height) ✓ SF	1SF volume of A box	
		$= (2.3 \text{ m} \times 3 \text{ m} \times 0.357 \text{ m}) + (2.3 \times 3 \text{ m} \times 0.5 \text{ m})$	151 Volume of A box	
		$\checkmark CA \checkmark A$ = $(2,464285714 + 3,45) \text{ m}^3$.	1CA volume of B box 1A 3,45m ³	
		$= 5.914285714 \text{ m}^3$	1CA total volume	
		= 5,914285714 m ³	TCA total volume	
		Capacity / <i>Kapasiteit</i> = 1 000 × 5,914285714		
		= 5 914,285714 litres. ✓ CA	1CA answer in litres	
	-	OR/OF	OR/OF	
2	PRA DE	Volume A = length × width × height/		
Š	PRIVATE	lengte × breedte ×hoogte = $(3 \text{ m} \times 2.3 \text{ m} \times 0.5 \text{ m})$ ✓ SF	1SF volume of A box	
1 6	3 6	$= 3.45 \mathrm{m}^3 \checkmark \mathrm{A}$	1A simplification 3,45	
17	RTME EDU	∴ 3 450 litres ✓ C	1C conversion	
ć.	- ASS.	W-1 D = 3 450 ℓ × 5	1A ratio	
-0	- PEGG	Volume B = $\frac{3450 \ell}{7} \times 5$ \checkmark A		
2017 CO 1 20 CO	PARTMENT OF BASIC EDUCATION VATE BAG X535, PRETORIA 0001	= 2 464,285714 litres ✓CA	1CA volume box B	
	0001	∴ <i>Total</i> = 3 450 + 2 464,285714	104	
		= 5 914,285714ℓ ✓ CA	1CA answer in litres NPR	
		· · ·	NPK (6)	

Copyright reserved/Kopiereg voorbehou

Please turn over/Blaai om asseblief

DOG IM





SA EXAM PAPERS | This past paper was downloaded from saexampapers.co.za

Mathematical Literacy/P2/Wiskundige Geletterdheid/V2 9 DBE/May/June/Mei/Junie 2024 SC/NSC/SS/NSS – Marking Guidelines/Nasienriglyne

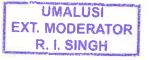
O/V	Solution/Oplossing	Explanation/Verduideliking T/
3.3*	$^{\circ}C = \frac{5}{9} \times (^{\circ}F - 32^{\circ})$	M L2 M
	$\checkmark SF$ $70^{\circ} = \frac{5}{9} \times (^{\circ}F - 32^{\circ})$	1SF substituting in formula
	$70^{\circ} \times \frac{9}{5} = {^{\circ}F} - 32 \checkmark MA$ $126^{\circ} = {^{\circ}F} - 32$	1MA changing subject
	°F = 158 ✓ CA	1CA answer (3)
		[33]



Copyright reserved/Kopiereg voorbehou







Mathematical Literacy/P2/Wiskundige Geletterdheid/V2 10 DBE/May/June/Mei/Junie 2024 SC/NSC/SS/NSS – Marking Guidelines/Nasienriglyne

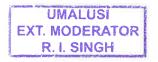
	STION/VRAAG 4 [33 MARKS/PUNTE]	Explanation/Verduideliking	T/L
/V	Solution/Oplossing	1RT 30	MP
	✓RT ✓RT 30:6	1RT 6	L2
.1.1		1A simplification	E
	= 5 : 1 ✓A	(3)	L
		2A 1 st room	MP
1.1.2	Reading room and computer lab	1A second room	L1
.1.2	Leeskamer en rekenaarlokaal	(3)	E
			MP
.1.3	Stairs / trappe	2A stairs	L2
		(2)	Е
	√√A √A		MP
.1.4	Multi-media room 1 / Multi-mediakamer 1	2A correct room	L3
		1A correct number	M
		(3)	
			M
.1.5	Area/ $Opp A = length \times width / lengte \times breedte$		L4
	$= 11 \text{ m} \times 3.5 \text{ m} \checkmark \text{SF}$	1SF substitution	D
	$= 38,5 \text{ m}^2 \checkmark \text{MCA}$	1MCA simplification	
	Area/ $Opp B = length \times width / lengte \times breedte$		
	$= 14 \text{ m} \times 3.5 \text{ m}$ $= 49 \text{ m}^2 \checkmark \text{MA}$	13.64	
	= 49 m² V MA	1MA simplification	
	Floor area/Vloer opp.		
	$= 38.5 \text{ m}^2 + 49 \text{ m}^2$		
	$= 87.5 \text{ m}^2 \checkmark \text{MCA}$	1MCA simplification total	
	·	area	
	Area of tile = length \times width		
	Opp van teël = lengte × breedte		
	$= 600 \text{ mm} \times 600 \text{ mm}$		
	$= 360\ 000\ \mathrm{mm}^2 \checkmark \mathrm{A}$	1A area tile	
	$360000 - 0.36\text{m}^2$		
	$\therefore \frac{360000}{1000000} = 0.36 \text{ m}^2 \checkmark \text{C}$	1C conversion	
	87.5		
	Number of tiles/ $Getal\ te\"els = \frac{87,5}{0,36} \checkmark MCA$	1MCA dividing	
7	0,30 ≈ 243,056 tiles ✓ CA		
		1CA number of tiles	
ĺ	Number of boxes/ Getal bokse = $\frac{244}{5}$		
	= 48.8 = 49 \checkmark CA	1CA number of boxes	
	INVALID/ ONGELDIG. ✓ O		
		10 opinion	
	OR/OF	OR/OF	
	-	1SF substitution	
	Floor Area/vloeropp = $11 \text{ m} \times 7 \text{ m} + 3.5 \text{ m} \times 3 \text{ m}$	1MA adding areas	
	$= 77 \text{ m}^2 + 10.5 \text{ m}^2$	1A 3	
	$= 87.5 \text{ m}^2 \checkmark \text{CA}$	1CA area	

Copyright reserved/Kopiereg voorbehou

APPROVED MARKING GUIDELINE

PRIVATE BAG NOOS, PREYORIA 0001





Mathematical Literacy/P2/Wiskundige Geletterdheid/V2 11 DBE/May/June/Mei/Junie 2024 SC/NSC/SS/NSS – Marking Guidelines/Nasienriglyne

/V	Solution/Oplossing	Explanation/Verduideliking	T/L
	Tiles / $Te\ddot{e}ls = \frac{600 \text{ mm}}{1000} = 0.6 \text{ m}$	1C conversion	
	Area of a tile / Opp van teël = $0.6 \text{ m} \times 0.6 \text{ m} = 0.36 \text{ m}^2$ \checkmark MCA	1MCA area of tile	
	Number of tiles/Getal teëls = $\frac{87.5}{0.36}$ \checkmark MCA	1MCA dividing areas	
	$\approx 243,056 \text{ tiles}^{\checkmark} \text{ CA}$	1CA number of tiles	
	Number of boxes/ $Getal\ bokse = \frac{244}{5}$		
	= 48,8 = 49 ✓ CA	1CA number of boxes	
	invalid/ ongeldig. = 49	10 conclusion	
	OR/OF	OR/OF	
		1A 3	
	Floor Area/ Vloer opp = $11 \text{m} \times 7 \text{ m} + 3.5 \text{ m} \times 3 \text{ m}$ = $77 \text{ m}^2 + 10.5 \text{ m}^2 \checkmark \text{MA}$	1SF substitution	
	- // III		
	$= 87.5 \text{ m}^2 \checkmark \text{CA}$	1CA area	
	Tiles / $Te\ddot{e}ls = \frac{600 \text{ mm}}{1000} = 0.6 \text{ m} \checkmark \text{ C}$	1C conversion	
	Area of a tile / Opp van 'n teël = 0,6 m × 0,6 m = 0,36 m ² \checkmark MCA	1MCA area of tile	
	Number of tiles / Getal teëls = $\frac{87.5}{0.36}$ \checkmark MCA \checkmark CA	1MCA dividing areas	
	≈ 243,056 tiles	1CA number of tiles	
	tiles in 40 boxes / teels in 40 bokse = $40 \times 5 = 200$		
	40 boxes is not enough or 200 < 244 ✓ CA	1CA less than	
	40 bokse is nie genoeg nie of 200 < 244 INVALID./ ONGELDIG ✓ O	10 conclusion	
	OR/OF	OR/OF	
	✓ SF ✓A	1A 3	
	Floor Area/vloeropp = $14 \text{m} \times 7 \text{ m} - 3.5 \text{ m} \times 3 \text{ m}$	1SF substitution	
	$= 98 \text{ m}^2 - 10.5 \text{ m}^2 \checkmark \text{MA}$	1MA subtracting areas	
	$= 87.5 \text{ m}^2 \checkmark \text{CA}$	1CA area	
	Tiles $/Te\ddot{e}ls = \frac{600 \text{ mm}}{1000} = 0.6 \text{ m}$ \checkmark C	1C conversion	
	Aron of a tile / Onn yan taäl	13.504 6.13	
	$= 0.6 \text{ m} \times 0.6 \text{ m} = 0.36 \text{ m}^2 \text{ MCA}$	1MCA area of tile	
	Number of tiles/Getal teëls = $\frac{87.5}{0.36}$ \checkmark MCA	1MCA dividing areas	
	≈ 243,056 tiles ✓ CA	1CA number of tiles	
	Number of boxes/ Getal bokse = $\frac{244}{5}$		
	= 48,8 = 49 ✓ CA	1CA number of boxes	
	INVALID/ ONGELDIG. = 49 O		
	III IIN V A L IID/ U/VUTEL IDIU.	10 conclusion	

Copyright reserved/Kopiereg voorbehou

APPROVED MARKING GUIDELINE

TOURS OF THE PROPERTY OF THE P

PRIVATE BAG MISS, PRETORIA 0001





Mathematical Literacy/P2/Wiskundige Geletterdheid/V2 12 DBE/May/June/Mei/Junie 2024 SC/NSC/SS/NSS – Marking Guidelines/Nasienriglyne

Q/V	Solution/Oplossing	Explanation/Verduideliking	T/L
	OR/OF	OR/OF	
	Area A = length \times width/ lengte \times breedte	105 1 4 4 4 4 5 4	
	$= 11 \text{ m} \times 3.5 \text{ m} \checkmark \text{SF}$	1SF substitution 1MCA simplification	
	$= 38,5 \text{ m}^2 \qquad \checkmark \text{MCA}$	TWICA Shilpinication	
	Area B = length \times width/ lengte \times breedte		
	$= 14 \text{ m} \times 3.5 \text{ m}$		
	$=49 \text{ m}^2 \qquad \checkmark \text{MCA}$	1MCA simplification	
	Floor area/Vloer opp.		
	$= 38,5 \text{ m}^2 + 49 \text{ m}^2$	1MCA simplification total	
	$= 87.5 \text{ m}^2 \qquad \checkmark \text{MCA}$	area	
	Area of tile = length × width / Opp van teël = $l \times b$ = 600 mm × 600 mm		
	$= 360\ 000\ \mathrm{mm}^2 \checkmark \mathrm{A}$	1A area tile	
	$\therefore \frac{360\ 000}{1000\ 000} = 0.36\ \mathrm{m}^2 \checkmark \mathrm{C}$	1C conversion	
	Number of tiles/Getal teëls = $\frac{87.5}{0.36}$ \checkmark MCA ≈ 243.056 tiles \checkmark CA	1MCA dividing 1CA number of tiles	
	Number of boxes/ Getal bokse = $\frac{244}{5}$		
	$= 48,8$ $= 49$ INVALID/ ONGELDIG. \checkmark O	1CA number of boxes 1O opinion	
	OR/OF	OR/OF	
	Area of tile / Opp van teël = $600 \text{ mm} \times 600 \text{ mm}$ = $360 000 \text{ mm}^2 \checkmark \text{A}$	1A area tile	
+	$L = 14 \text{ m} \times 1 000$		
O III	$= 14 \text{ m} \times 1000$ = 14 000 mm \checkmark C	1C conversion	
A CONTRACTOR OF THE CONTRACTOR	$B = 7 \text{ m} \times 1 000$ = 7 000 mm		
	∴ Area/Opp = 14 000 mm × 7 000 mm ✓ SF = 98 000 000 mm2 ✓ MCA	1SF substitution 1MCA simplification	
	∴ Area/Opp = 3 500 mm × 3 000 mm = 10 500 000 mm2 ✓ MCA	1MCA simplification	
3	Total area/ <i>Totale opp</i> = 98 000 000 mm ² - 10 500 000 mm ² = 87 500 000 mm ² ✓ MCA	1MCA simplification total area	

Copyright reserved/Kopiereg voorbehou

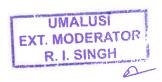
Please turn over/Blaai om asseblief



APPROVED MARKING GUIDELINE

2024 -05-





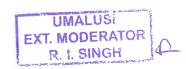
Mathematical Literacy/P2/Wiskundige Geletterdheid/V2 13 DBE/May/June/Mei/Junie 2024 SC/NSC/SS/NSS – Marking Guidelines/Nasienriglyne

Q/1		Explanation/Verduideliking T	/L
	Number of tiles/Aantal teëls		
	$= \frac{87500000 mm^2}{3600000 mm^2} \checkmark MCA = 243,0555556 \text{tiles} \checkmark CA$	1MCA dividing 1CA number of tiles	
	Number of boxes/Getal bokse		
	$=\frac{243,0555556}{5}$		
	$=48,61 \approx 49 \checkmark CA$	1CA number of boxes	
	∴ INVALID/ONGELDIG ✓ O OR/OF	1O opinion OR/OF	
	Area (Lab) = $(7 \times 14 - 3 \times 3.5) m^2$	1A 3 1SF substitution 1MA subtracting	
	= $(98 - 10,5) m^2 \checkmark MA$ = $87,5 m^2 \checkmark MCA$	1MCA simplification total area	
	Tile side / $Te\ddot{e}l sy = 600 \div 1 000 = 0.6 \text{m}$ \checkmark C Area covered by a box of tiles	1C conversion	
	Oppervlakte bedek deur 'n boks teëls = $(0.6 \times 0.6) \times 5$ \checkmark MCA	1MCA area of 1 tile	
	$= 1.8 \text{ m}^2 \checkmark \text{CA}$	1CA area box of tiles	
	Number of boxes / Getal bokse $= \frac{87.5}{\text{MCA}} \checkmark \text{MCA}$	1MCA dividing	
	$= 48,6 \approx 49$ \checkmark CA	1CA number of boxes of tiles	
	INVALID / ONGELDIG ✓ O	1O opinion	
	OR/OF	OR/OF	
	Calculating 3 areas/Berekening 3 opp.		
	$A1 = 3.5 \times 11$ $\checkmark SF$ = 38.5 m^2	1SF substitution	
	$A2 = 3 \times 3.5 \checkmark A$ $=10.5m^2$	1A 3	
à Pa	$1 \Delta 3 = 3.5 \times 11$	1MA adding	
PRIVATE BAG X395, PASTORIA 0001 2024 -05- 18 ABBROVED MARKING GUIDELING	TOTAL =38,5 m^2 +10,5 m^2 +38,5 m^2 \checkmark MA =87,5 m^2 \checkmark MCA	1MCA simplification total	
24 -05-	Number of tiles/ $Getal\ te\"els = \frac{87.5}{0.36}$ \checkmark MCA	area 1MCA dividing	
ARKING GUIDELIN	≈ 243,056 tiles CA	1CA number of tiles	
NG CHIDELIN	Number of boxes/ Getal bokse = $\frac{244}{5}$		
2	$= 48.8$ $= 49 \checkmark CA$	1CA number of boxes	
	INVALID/ ONGELDIG ✓ O	10 opinion	
		(10)	

Copyright reserved/Kopiereg voorbehou

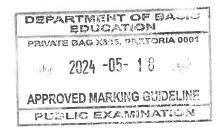






Mathematical Literacy/P2/Wiskundige Geletterdheid/V2 14 DBE/May/June/Mei/Junie 2024 SC/NSC/SS/NSS – Marking Guidelines/Nasienriglyne

Q/V	Solution/Oplossing	Explanation/Verduideliking	T/L
4.2.1*	4 ✓✓ A	2A number of countries (2)	MP L1 E
4.2.2	Harare ✓✓ A	2A correct town (2)	MP L1 E
4.2.3*)	$\checkmark SF \qquad \checkmark A$ $97 \text{ km/h} = 179 \text{ km} \div \text{tyd}$	1A 179 1SF substitution 97	M L3 D
	Time =distance \div speed Tyd = afstand \div spoed = $\frac{179}{97}$ \checkmark MCA = 1,845 hours \checkmark CA	1MCA change formula 1CA time in hours	
	Time duration / $tydsduur = 1,845$ hours./ uur $= 1 \text{ hour}/uur + 0,845 \times 60 \text{ min}$ $= 1 \text{ hour}/uur 51 \text{ min}$		
	Arrival time / Aankomstyd: = 09:55 + 1 h 51 min = 11: 46 ✓ CA	1CA answer (5)	
4.2.3 (b)	√MA Distance/Afstand = $(713 - 263) + 2(18)$ = $450 + 36$	1MA subtracting correct values 1MA getting 36 1CA total distance	M L2 M
	OR/OF	OR/OF	
	Distance /Afstand \checkmark MA \checkmark MA = (713 - 552) + 18 + 18 + (552 - 263)	1MA subtracting correct values 1MA adding distances	
	$= 161 + 18 + 18 + 289 = 486 \text{ km} \checkmark \text{CA}$	1CA answer (3)	



Copyright reserved/Kopiereg voorbehou

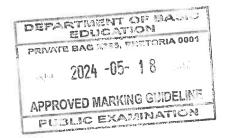






Mathematical Literacy/P2/Wiskundige Geletterdheid/V2 15 DBE/May/June/Mei/Junie 2024 SC/NSC/SS/NSS – Marking Guidelines/Nasienriglyne

Q/V	Solution/Oplossing	Explanation/Verduideliking	T/L
	OR/OF	OR/OF	
	✓MA		
	Distance/ $Afstand = (455 - 5) + 2(18)$	1MA subtracting	
		correct values	
	$= 450 + 36 \qquad \checkmark MA$	1MA getting 36	
	= 486 km ✓ CA	1CA total distance	
	OR/OF	OR/OF	
	Distance /Afstand		
	✓ MA ✓ MA	1MA subtracting correct values	
	= (166 - 5) + 18 + 18 + (455 - 166)	1MA adding values	
	$= 161 + 18 + 18 + 289 = 486 \text{ km} \checkmark \text{CA}$	1CA answer	
	OR/OF	OR/OF	
	Distance/Afstand		
	✓MA ✓MA	1MA subtracting correct values	
	= 179 + 18 + (552 - 263) km	1MA adding values	
	= 486 km ✓CA	1CA answer	
		(3)	
		[33]	



Copyright reserved/Kopiereg voorbehou





Mathematical Literacy/P2/Wiskundige Geletterdheid/V2 16 DBE/May/June/Mei/Junie 2024 SC/NSC/SS/NSS – Marking Guidelines/Nasienriglyne

	ION/VRAAG 5 [29 MARKS/PUNTE] Solution/Oplossing	Explanation/Verduideliking	T/L
Q / <i>V</i> 5.1.1*	8 VVA	2A correct number (2)	MP L1 E
5.1.2	Front entrance portal /Voorste ingangsportaal $ \checkmark MA \qquad \checkmark RT \qquad \checkmark RT $ = $58 - (11 \times 4 + 2 \times 4) \qquad \checkmark A$ = 6 feet/ voet $\qquad \checkmark CA$	1MA subtracting from 58 1RT room dimensions 1RT wall thickness 1A multiplying with 4 1CA simplification (5)	MP L3 M
5.1.3	There are no walls separating the kitchen, dining room and living room. $\checkmark\checkmark$ O Daar is geen mure wat die kombuis, eetkamer en woonvertrek skei nie	2O reason (2)	MP L4 E
5.1.4*	Toilet OR bath OR basin or sink Toilet OF bad OF wasbak	2A correct feature (2)	MP L1 E
5.1.5	JO 3 rd floor and B that it is the second apartment 3 ^{de} vloer en B is die tweede woonstel OR/OF ✓ 0 Block B, Number 3 ✓ 0 Blok B, nommer 3 OR/OF ✓ 0 3 rd Floor, unit on the left/right ✓ 0 3 ^{de} vloer, die eenheid links/ regs OR/OF ✓ 0 3 rd Floor, B-wing ✓ 0 3 rd Floor, B-wing ✓ 0 3 rd Floor, B-wing ✓ 0	10 numbering of the floors 10 numbering of the apartments (2)	MP L4 M
5.1.6 (a)	17,6784 m = 58 feet/voet Conversion factor/ Herleidings faktor: $1 \text{ m} = \frac{58 ^{\checkmark}\text{RT}}{17,6784} = 3,28083989 ^{\checkmark}\text{MA}$ $\approx 3,281 \text{ feet} \qquad ^{\checkmark}\text{R}$	1RT 58 1MA simplification 1R rounded answer (3)	M L2 M
5.1.6 (b)	Width / Breedte = $\frac{40}{3,281}$ \checkmark RT \checkmark MCA	CA from 5.1.6 (a) 1RT correct width 1MCA dividing	M L2 M
	= 12,191405 m ✓CA	1CA simplification	

Copyright reserved/Kopiereg voorbehou

Please turn over/Blaai om asseblief



APPROVED MARKING GUIDELINE





Mathematical Literacy/P2/Wiskundige Geletterdheid/V2 17 DBE/May/June/Mei/Junie 2024 SC/NSC/SS/NSS – Marking Guidelines/Nasienriglyne

Q/V	Solution/Oplossing	Explanation/Verduideliking	T/L
	OR/OF	OR/OF	
	58 feet/ voet = 17,6784 m		
	40 feet/ voet = n		
	√RT	1RT correct width	
	$n = \frac{40}{58} \times 17,6784 \checkmark MA$	1MA working with ratio	
	$= 12,191405 \mathrm{m}$ $\checkmark \mathrm{CA}$	1CA simplification	
	12,100 11	NPR	
		(3)	M
			L2
5.2.1	Area / Oppervlakte = length × width / lengte × breedte	1SF substitution	E
	$= 0.614 \text{ m} \times 0.474 \text{ m} \checkmark \text{SF}$	15F substitution	E
	$= 0.291036 \text{ m}^2$	1R simplification	
	$= 0.3 \text{ m}^2 \checkmark \text{R}$	NPU	
		(2)	
		CA from Q 5.2.1	M
5.2.2*)	Area for 6 panels /Opp van 6 panele = $0.3 \text{ m}^2 \times 6$		L4
3.2.2	$= 1.8 \text{ m}^2 \text{ /MCA}$	1MCA simplification	D
	- ,, -	•	
	Cost for 6 panels /Koste van 6 panele		
	•		
	$= 1.8 \text{ m}^2 \times \text{R490/m}^2 = \text{R882 } \checkmark \text{MCA}$	1MCA simplification cost	
	Mass of the 6 panels / Massa van 6 panele		
	10 2 151 / 2 271 /MCA	1MCA simplification: mass	
	$= 1.8 \text{ m}^2 \times 15 \text{ kg/m}^2 = 27 \text{ kg} \text{MCA}$	TWCA simplification, mass	
9	Delivery mass / Aflewerings massa= 20 kg + 7 kg	1	
	Denvery mass / Aftewerings massu- 20 kg + / kg		
	Cost of delivery / Afleweringskoste		
	✓MA	1MA cost of 1st 20kg	
	$= R820 + R53,50 \times 7 \text{ kg} \checkmark MCA$	1MCA add and multiply	
	1020 - 100,000 - 100,000	TWCA add and multiply	
	= R1 194,50 ✓CA	1CA simplification	
	,		
	Total cost / <i>Totale koste</i> = R882,00 + R1 194,50		
	= R2 076,50 ✓CA	1CA simplification	
	(2		
	INVALID/ ONGELDIG ✓O	10 verification	
	ODIGE	OBJOE	
0 5	OR/OF	OR/OF	
200 A. 173.	E082. 02-2		

PRIVATE BAG 200 POPIA 0001

2024 - 65- 18

APPROVED MARKING GUIDELING
FLOLIG EKAMINIATION

UMALUSI EXT. MODERATOR E.D. CRONJE UMALUSI EXT. MODERATOR R. I. SINGH

Copyright reserved/Kopiereg voorbehou



Mathematical Literacy/P2/Wiskundige Geletterdheid/V2 18 DBE/May/June/Mei/Junie 2024 SC/NSC/SS/NSS – Marking Guidelines/Nasienriglyne

Q/V	Solution/Oplossing	Explanation/Verduideliking	T/L
	Using unrounded area		
	Area for 6 panels /Opp van 6 panele		
	$= 0.291036 \text{ m}^2 \times 6$		
	$= 1,746216 \text{ m}^2 \checkmark \text{CA}$	1CA simplification	
	,	1011 simplification	
	Cost for 6 panels /Koste van 6 panele		
	$= 1,746216 \text{ m}^2 \times \text{R490/m}^2 = \text{R855,65} \checkmark \text{CA}$	1CA simplification cost	
		•	
	Mass of the 6 panels / Massa van 6 panele	P	
	2 151 (2 2C102241- √CA		
	$= 1,746216 \text{ m}^2 \times 15 \text{ kg/m}^2 = 26,19324 \text{ kg}$ $\checkmark \text{CA}$	1CA simplification: mass	
	P_{α} linear mass / All and a mass a mass a = $20 \text{ kg} + 7 \text{ kg}$		
	Delivery mass / Aflewerings massa= 20 kg + 7 kg		
	Cost of delivery / Afleweringskoste		
	✓MA	1MA cost for 1 st 20 kg	
	$= R820 + R53,50 \times 7 \text{ kg} \checkmark MCA$	1MCA add and multiply	
	1020 100,01	TWICA add and multiply	
	= R1 194,50 ✓CA	1CA simplification	
	,		
	Total cost / $Totale\ koste = R855,65 + R1\ 194,50$	1CA simplification	
	= R2 050,15 ✓CA	TCA simplification	
	(0	10 '6 4'-	
	INVALID/ ONGELDIG ✓O	10 verification (8)	
		(6)	
		[29]	
		TOTAL/TOTAAL: 150	



Copyright reserved/Kopiereg voorbehou





Mathematical Literacy/P2/Wiskundige Geletterdheid/V2 19 DBE/May/June/Mei/Junie 2024 SC/NSC/SS/NSS – Marking Guidelines/Nasienriglyne

NOTE/LET WEL:

1.1		Б	T1 1	ar shone		
1.1	11111 0 11 0 11 11 11 11 11 11 11 11 11				Full marks	
	1.1.2 Probability	G	The likelihood that something may happen. A time measurement equivalent to three thousand		for written	
	1.1.3 One hour	F	A time measurement equivalent to this six hundred seconds.	ree mousand	explanations	
	1.1.4 Temperature	В	The measure of hotness or coldness.		onplanation.	
	1.1.4 Temperature	Ь	The measure of nearest of peraness.			
1.2.3	В			2 out of 2		
1.3.1	Accept round (for circ	le)		2 out of 2		
1.3.3	'n Motoris mag net to	<i>t 120k</i> limit.	up to 120 km/h on the road. cm/h ry op die pad, / Do not exceed 120 km/h on this road cing/ Jy mag nie 120km/h oorskry op die	2 out of 2		
1.3.4	For candidates writing	534	- 144 = 390	1 out of 2		
2.1.3	Listing all seven corre 1, 5, 8, 9, 10, 11, 12 Vehicle entrance, catt		nicle, etc.	1 out of 2		
2.1.4	Accept Certain /Besli	S		2 out of 2		
2.2	C E D B A			5A correct order (5)		
2.3	Do not drive off the ro	oad/ M	Ioenie van die pad af gaan nie.	2 out of 2		
3.1.4	Using 124 m as radius	s, but	correct calculation 48 311,392 m ²	2 out of 4		
	The following words can be used:					
3.1.6	Water, coal, sun, inve	rters		2 out of 2		
3.2.2	12			3 out of 3		
3.2.2	15			2 out of 3		

PRIVATE BAG NEED, PRETORIA 000
2024 -05- 18

Copyright reserved/Kopiereg voorbehou





Mathematical Literacy/P2/Wiskundige Geletterdheid/V2

20

DBE/May/June/Mei/Junie 2024

	SC/NSC/SS/NSS – Marking Guidelines/Nasienriglyne	
3.3	Using this formula correctly – no part marks °F = (°C × $\frac{9}{5}$) + 32° = $(70^{\circ} \times \frac{9}{5})$ + 32° = 158	3 out of 3
4.2.1	Zambia, Zimbabwe, South Africa, Botswana	1 out of 2
4.2.3 (a)	Accept 11:45	5 out of 5
5.1.1	6 or 2	1 out of 2
5.1.4	Accept door	2 out of 2
	Area for 6 panels/Oppervlakte van 6 panele = 0,3 m² × 6 = 1,746216 m² = 2 m² Cost for 6 panels/Koste van 6 panele = 2 m² × R490/m² = R980,00 Mass of the 6 panels/Massa van die 6 panele = 2 m² × 15 kg/m² = 30 kg Delivery mass = 20 kg + 10 kg Cost of delivery/Afleweringskoste = R820 + (R53,50 × 10) = R1 355,00 Total cost/Totale koste = R980,00 + R1 355 = R2 335,00 INVALID/ONGELDIG	7 out of 8
	INVALID/ONGELDIG	

PRIMITE BAG TO STORIA 0001

2024 -05- 16

Copyright reserved/Kopiereg voorbehou

APPROVED MARKING GUIDELINE

Please turn over/Blaai om asseblief

St DAE IM



