basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

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

MATHEMATICAL LITERACY P2/*WISKUNDIGE GELETTERDHEID V2*

MAY/JUNE/*MEI/JUNIE 2025*

MARKING GUIDELINES/*NASIENRIGLYNE*

MARKS/*PUNTE*: 150

Symbol/*Kode*	Explanation/*Verduideliking*
MA	Method with accuracy/*Metode met akkuraatheid*
MCA	Method with constant accuracy/*Metode met volgehoue akkuraatheid*
CA	Consistent accuracy/*Volgehoue akkuraatheid*
A	Accuracy/*Akkuraatheid*
C	Conversion/*Herleiding*
RT	Reading from a table/a graph/document/diagram/*Lees vanaf tabel/grafiek/diagram*
SF	Correct substitution in a formula/*Korrekte vervanging in formule*
O	Opinion/Explanation/Reasoning /*Opinie/Verduideliking/redenasie*
P	Penalty, e.g. for no units, incorrect rounding off, etc./*Penalisering bv. vir geen eenhede/verkeerde afronding, ens.*
R	Rounding off/*Afronding*
NPR	No penalty for rounding/*Geen penalisering vir afronding nie*
NPU	No penalty for omitting the unit,but a wrong unit is penalised. / *Geen penalisasie indien die eenheid uitgelos is nie, maar 'n verkeerde eenheid word wel gepenaliseer.*
AO	Answer only/*Slegs antwoord*
RCA	Rounding consistent with accuracy/Afronding met volgehoue akkuraatheid

These marking guidelines consist of 15 pages and 1 page with notes.
Hierdie nasienriglyne bestaan uit 15 bladsye en 1 bladsy met notas.

APPROVED ON 26 May 2025	**External Moderators**		**Internal Moderators**	
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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.
- NOTE: consistent accuracy (CA) does not apply in cases of a 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.
- Rounding is an independent mark.
- A conclusion mark can only be given if relevant calculations precede it.
- No penalty for rounding (NPR) if the first decimal is correct.

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 op by die tweede berekeningsfout.*
- *Let wel: volgehoue akkuraatheid (CA) geld nie in die geval van 'n afbreuk 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*
- *Afronding tel as 'n onafhanklike punt*
- *'n Gevolgtrekkingspunt kan slegs gegee word indien relevante berekeninge dit voorgaan.*
- *Geen penalisering vir ronding (NPR) as die eerste desimaal korrek is nie.*

NOTE: Questions marked with * refers to the notes.
Questions where the numbers are encircled are the ones where there is a tolerance range.

QUESTION/*VRAAG* 1 [28 MARKS/*PUNTE*] Answer Only AO - full marks			
Q/*V*	**Solution/*Oplossing***	**Explanation/*Verduideliking***	**T/L**
* 1.1.1	I ✓✓ A	2A correct choice (2)	MP L1 E
* 1.1.2	B ✓✓ A	2A correct choice (2)	M L1 E
* 1.1.3	H ✓✓ A	2A correct choice (2)	M L1 E
* 1.1.4	G ✓✓ A	2A correct choice (2)	MP L1 E
1.2.1	✓✓ A Less than / *kleiner as*	2A correct choice (2)	P L1 E
1.2.2	down / *af* ✓✓A	2A correct choice (2)	M L1 E
1.2.3	Two / *twee* ✓✓ A	2A correct choice (2)	M L1 E
1.2.4	2D ✓✓ A	2A correct choice (2)	MP L1 E
1.3.1	1,75 °C ✓✓ RT	2RT correct choice **NPU** (2)	M L1 E
* 1.3.2	Kiribati ✓✓ RT	2RT correct country (2)	M L1 E
* 1.3.3	✓ RT –5,35°C ≈ –5°C ✓ R	1RT correct temperature 1R correct rounding **NPU** (2)	M L1 E
1.3.4	✓ RT ✓ MA Difference /*Verskil* = 27,85°C – (– 0,70°C) = 28,55°C ✓ A	1RT correct temperature 1MA subtracting – 0,70°C from 27,85°C 1A simplification **Accept –28,55°C** (3)	M L1 E
1.3.5	Djibouti/*Djiboeti* and/*en* Mauritius ✓A ✓A Mauritania/ *Mauritanië* and /*en* Tuvali /*Tuvalu* ✓ A	2A 1st correct pair 1A 2nd correct pair (3)	MP L1 E
		[28]	

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QUESTION/*VRAAG* 2 [23 MARKS/*PUNTE*]			
Q/*V*	**Solution/*Oplossing***	**Explanation/*Verduideliking***	**T/L**
2.1.1	✓✓ RT Cleaning supplies/*Skoonmaakmiddels*	2RT correct product (2)	MP L2 E
2.1.2	✓A Pet care is next to the sweets, just to the left of the checkout points. ✓A /Between sweets and checkout point/ Last section before checkout point *Troeteldiersorg is langs die lekkers, net links van die betaalpunte./ Tussen lekkers en betaalpunt /Laaste afdeling voor betaalpunte*	1A explanation 1st reference. 1A explanation 2nd reference. (2)	MP L2 E
2.1.3	✓✓ A Dairy and cheese. / *Suiwel en kaas*	2A correct section (2)	MP L1 E
2.1.4	✓✓ A anticlockwise. / *anti-kloksgewys*	2A correct option (2)	MP L1 M
2.1.5	✓✓ O Any ONE of the following: • Encourages customers to make purchases. • Pleasant environment – customers like to shop there • To encourage customers to return to shop again • Easy to find items/easy access/convenience • User friendly • Save time *Enige EEN van die volgende:* • *Dit moedig kliënte aan om te koop.* • *Aangename omgewing – kliënte hou daarvan om daar te koop.* • *Om kliënte aan te moedig om terug te keer na winkel vir aankope.* • *Maklik om items te vind/maklik toeganklik/gerieflik* • *Verbruikersvriendelik* • *Bespaar tyd*	2O reason (2)	MP L4 M

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Q/*V*	Solution/*Oplossing*	Explanation/*Verduideliking*	T/L
2.1.6	Fridges ✓✓ O Need power/plugs to run. Safety – the wires do not trip the customers Easy to pack Temperature control To have all the cold products lined up in one row. *Yskaste* *Benodig krag/muurproppe.* *Veiligheid – sodat kliente nie oor die drade val nie* *Maklik om te pak* *Temperatuurregulering(beheer)* *Om alle koue produkte in een ry te hê.*	2O reason (2)	MP L4 M
2.1.7	✓✓ O Tills / Teller / cashiers / it is the place where you need to pay. *Kasregisters / kassiere / dit is die plek waar jy betaal.*	2O reason (2)	MP L4 M
2.2.1	**a** = 18 ✓A **b** = 12 ✓A **c** = 88 ✓A **d** = 156 ✓A	1A 18 1A 12 1A 88 1A 156 (4)	P L2 E
2.2.2	$P = \frac{16}{29}$ ✓RT ✓A ≈ 0,55 ≈ 55,17%	1RT numerator 1A denominator **NPR** (2)	P L2 M
2.2.3	Male/*Manlik* ✓✓RT ✓RT Black/*Swart*	2RT 1st part correct 1RT 2nd part correct (3)	P L3 M
		[23]	

QUESTION/*VRAAG* 3 [27 MARKS/*PUNTE*]			
Q/*V*	**Solution/*Oplossing***	**Explanation/*Verduideliking***	**T/L**
* 3.1.1	Length of fencing /*Lengte van heining* = 12 m + 8,7 m + 2,6 m + 12 m ✓ MA ✓ CA = 35,3 m ✓ A **OR/*OF*** Length of fencing /*Lengte van heining* = 12 m + 8,7 m + 2,6 m + 1,4 m + 10,6 m ✓ MA ✓ CA = 35,3 m ✓ A	1MA adding all the values 1CA simplification 1A unit (3)	M L2 E
* 3.1.2 (a)	Radius = 120 cm ÷ 2 = 60 cm ✓ A Volume of the fish pond /*Volume van visdam* = 3,142 × radius^2 × depth /*diepte* =3,142 × $(\frac{120}{2}\,cm)^2$ × 0,5 m ✓ SF ✓ C = 3,142 × (60 cm)^2 × 50 cm = 565 560 cm^3 ✓ CA	1A radius 1SF substitution 1C conversion m to cm 1CA simplification (4)	M L2 M
* 3.1.2 (b)	✓ A Diameter / *Middellyn* = 120 cm + (2 × 20 cm) = 160 cm Circumference of the outer edge /*Buite omtrek* = 3,142 × diameter / *middellyn* =3,142 × 160 cm ✓ SF = 502,72 cm ✓ CA **OR/*OF*** ✓ A Radius = 60 cm + 20 cm = 80 cm C = 3,142 × 2 × 80 cm ✓ SF = 502,72 cm ✓ CA	1A adding both sides 20 cm 1SF substitution 1CA simplification **OR/OF** 1A adding one side 20 cm to inner radius 1SF substitution 1CA simplification (3)	M L2 M
3.1.3 (a)	Length = 8,7 m + 2,6 m = 11,3 m ✓ A Area of a rectangle = length/*lengte* × width/*breedte* 36,16 m^2 = 11,3 m × width /*breedte* ✓ SF Width /*breedte* $=\frac{36{,}16\ m^2}{11{,}3\ m}$ ✓ MCA = 3,2 m ✓ CA	1A length 1SF substitution 1MCA change the subject 1CA simplification (4)	M L3 M

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Q/*V*	Solution/*oplossing*	Explanation/*Verduideliking*	T/L
3.1.3 (b)	Volume = Area × depth / *Oppervlakte* × *diepte* $= 36{,}16\ m^2 \times 150\ mm$ ✓ SF $= 36{,}16\ m^2 \times 0{,}150\ m$ ✓ C $= 5{,}424\ m^3$ ✓ CA	1SF substitution 1C converting mm to m 1CA simplification	M L4 D
	$10\ m^3$ = 118 wheelbarrows / *kruiwaens* $5{,}424\ m^3 = n$ $n = \frac{5{,}424m^3}{10m^3} \times 118$ ✓ MCA ≈ 65 wheelbarrows/ *kruiwaens* ✓ CA INVALID / *ONGELDIG* ✓ O	1MCA using ratio 1CA simplification 1O conclusion **[Accept 64]**	
	OR/*OF*	**OR/*OF***	
	118 wheelbarrows/kruiwaens = $10\ m^3$ ∴ 65 wheelbarrows/kruiwaens = x $\therefore \frac{118 \times x}{118} = \frac{65 \times 10\ m^3}{118}$ ✓ MA $\therefore x = 5{,}5084745\ m^3$ ✓ CA	1MA using ratio 1CA simplification	
	Volume = Area × depth / *Oppervlakte* × *diepte* $= 36{,}16\ m^2 \times 150\ mm$ ✓ SF $= 36{,}16\ m^2 \times 0{,}150\ m$ ✓ C $= 5{,}424\ m^3$ ✓ CA INVALID/*ONGELDIG* ✓O	1SF substitution 1C converting mm to m 1CA simplification 1O conclusion	
	OR/*OF*	**OR/OF**	
	118 wheelbarrows/*kruiwaens* = $10\ m^3$ 1 wheelbarrow/*kruiwaens* = $\frac{10}{118}\ m^3$ ✓MA $= 0{,}0847457622\ m^3$ Volume = $36{,}16\ m^2 \times 0{,}15\ m$ ✓C ✓SF $= 5{,}424\ m^3$ ✓CA ∴No of wheelbarrows/*Aantal kruiwaens* $= \frac{5{,}424\ m^2}{0{,}084757626\ m^2}$ $= 64{,}005$ ≈ 65 ✓CA INVALID/*ONGELDIG* ✓O	1MA using ratio 1SF substitution 1C converting mm to m 1CA simplification 1CA simplification 1O conclusion **[Accept 64]**	
		(6)	

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Q/*V*	Solution/*oplossing*	Explanation/*Verduideliking*	T/L
3.2.1	12 ✓✓ A	2A correct number (2)	M L1 E
* 3.2.2	Total cost (excl) /*Totale koste (uitsluitende)* ✓ MA ✓MA = R125,80 + 4 × R657,40 + R1 250 = R4 005,40 ✓ CA VAT/*BTW* = R4 005,40 × 15% = R600,81 ✓ MCA Cost (incl) / *Koste (ingesluit)* = R4 005,40 + R600,81 = R4 606,21 ✓ CA OR Cost/*Koste* = R4 005,40 × 1,15 = R4 606,21	1MA adding three costs 1MA multiplying by 4 1CA simplification 1MCA VAT 1CA simplification (5)	M L2 M
		[27]	

QUESTION/*VRAAG* 4 [36 MARKS/*PUNTE*]			
Q/*V*	**Solution/*Oplossing***	**Explanation/*Verduideliking***	**T&L**
4.1.1	Ratio / *Verhouding* ✓RT = 11,6 : 7,6 ✓MA = 29 : 19 ✓A	 1RT correct values 1MA correct order 1A simplification **AO** (3)	M L2 M
* 4.1.2	Monday to Friday / *Maandag tot Vrydag* = 17:00 – 07:30 = 9 hours/*uur* 30 min ✓A Total for Mon-Fri/ *Totaal vir Maan-Vry* = 9 hours/*uur* 30 min × 5 ✓MCA = 47,5 hours/*uur* ✓CA Saturdays / *Saterdae* =13:00 – 08:00 = 5 hours 0 min ✓A Total time / *Totale tyd* = 47,5 hours/*uur* + 5 hours/*uur* = 52,5 hours/*uur* ✓CA	 1A hours per day 1 MCA multiplying by 5 1CA time for 5 days 1A time for Saturday 1CA simplification (5)	M L2 M
4.1.3	Volume / *Volume* = 11,6 cm × 7,6 cm × 10,5 cm ✓SF = 925,68 cm³ ✓A Capacity / *Kapasiteit* 1 cm³ = 1 mℓ ∴ 925,68 cm³ = 925,68 mℓ ✓C Water volume = 925,68 × 75% ✓MCA = 694,26 mℓ ✓CA Leftover / *Oorblywend* = 1 000 mℓ – 694,26 mℓ ✓MCA = 305,74 mℓ ✓CA	 1SF correct substitution 1A simplification 1C capacity in mℓ 1MCA calculating 75% of tank 1CA simplification 1MCA subtracting 1CA mℓ left (7)	M L3 M

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Q/V	Solution/*Oplossing*	Explanation/*Verduideliking*	T&L
4.2.1	D ✓A	1A correct letter (1)	MP L1 E
4.2.2	A ✓A	1A correct letter (1)	MP L1 E
4.2.3	F ✓A	1A correct letter (1)	MP L1 E
4.2.4	B ✓A	1A correct letter (1)	MP L1 E
4.2.5	C ✓A	1A correct letter (1)	MP L1 E
4.2.6	E ✓A	1A correct letter (1)	MP L1 E
4.3.1	1 mm = 0,0394 inch/ *duim* Height / *Hoogte* $= \frac{\text{4,3 inches}}{\text{0,0394 inches/mm}}$ ✓RT ✓MA = 109,1370558 mm ✓CA = 10,9 cm ✓C **OR** 10,914 cm **OR** 10,91 cm	1RT correct height 4,3 inches 1MA dividing with 0,0394 inch 1CA simplification in mm 1C conversion from mm to cm **NPR** (4)	M L2 M
4.3.2	Length / *Lengte* = 12 cm + 5 cm ✓MA = 17 cm ✓A Number lengthwise / *Getal lengtegewys* = 199 cm ÷17 cm ✓MCA = 11,70588235 ≈ 11 ✓CA But / *maar* 17 cm × 11 = 187 cm ✓MCA And/ *En* 199 cm – 187 cm = 12 cm ✓CA Number of mini aquariums / *Getal mini akwariums* = 11 + 1 = 12 ✓CA **OR/OF**	1MA adding length and space 1A simplification 1MCA dividing 1CA simplification 1MCA calculating space left 1CA simplification 1CA simplification **OR/OF**	MP L3 D

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Q/*V*	Solution/*Oplossing*	Explanation/*Verduideliking*	T&L
	Tank and space / *Tenk en spasie* = 12 cm + 5cm ✓MA = 17cm ✓A Place 2 tanks at the ends/*Plaas 2 tenke aan die einde* ✓MA 12 cm + 12 cm = 24 cm Two tanks and 1 space/*Twee tenke en 1 spasie*: 24 cm + 5 cm = 29 cm ✓CA Space left/*Spasie oor* = 199 cm – 29 cm = 170 cm ✓MCA Use of space left/*Gebruik van spasie oor* $= \frac{170\ cm}{17\ cm}$ = 10 tanks ✓CA Total no of tanks = 2 + 10 = 12 ✓CA	1MA adding length and space 1A simplification 1MA adding 1CA simplification 1MCA simplification 1CA simplification 1CA simplification (7)	
* 4.3.3	Length of 2nd row's tank resting on 1st row *Lengte van 2de ry se tenk wat rus op 1ste ry* = 12 cm – 5 cm = 7 cm ✓A On each side /*aan elke kant* = 7 cm ÷ 2 ✓MA = 3,5 cm *d* = 12 cm – 3,5 cm = 8,5 cm ✓CA Her statement is VALID ✓O **OR/OF**	 1A subtracting values 1MA dividing by 2 1CA simplification 1O conclusion **OR/OF**	MP L4 M

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Q/*V*	Solution/*Oplossing*	Explanation/*Verduideliking*	T&L
	OR/OF	**OR/OF**	
	Length on 2nd row/*Lengte op 2de ry* ✓A d + 12 cm + 5 cm + 12cm + d = 46 cm ✓A	1A adding values 1A 46 cm	
	Therefore/*Daarom*		
	$2d$ = 46 cm – 29 cm $2d$ = 17 cm ✓MCA d = 8,5 cm	1MCA dividing by 2	
	✓O VALID/*GELDIG*	1O conclusion	
	OR/OF	**OR/OF**	
	Total length of wall/Total lengte van muur ✓A ✓A d + (12 cm + 5 cm) × 10 + 12 cm + d = 199 cm	1A adding values 1A 199	
	Therefore/Daarom		
	$2d$ = 199 cm – 182 cm $2d$ = 17 cm d = 8,5 cm ✓MCA	1MCA dividing by 2	
	VALID/*GELDIG* ✓O	1O conclusion	
	OR/OF	**OR/OF**	
	✓A 12 cm + 5 cm + 12 cm + 5cm + 12 cm = 46 cm	1A adding values	
	46 ÷ 2 = 23 ✓MA 5 ÷ 2 = 2,5 12 + 2,5 = 14,5	1MA dividing by 2	
	23 – 14,5 = 8,5 ✓CA	1CA simplification	
	VALID/*GELDIG* ✓O	1O conclusion	
	OR/OF	**OR/OF**	
	2d = 1 tank + 1 space = 12 cm + 5 cm ✓A = 17 cm	1A adding values	
	d = 17 cm ÷ 2 ✓MA = 8,5 cm ✓CA	1MA dividing by 2 1CA simplification	
	VALID/*GELDIG* ✓O	1O conclusion	
		(4)	
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QUESTION/*VRAAG* 5 [36 MARKS/*PUNTE*]			
Q/*V*	**Solution/*Oplossing***	**Explanation/*Verduideliking***	**T/L**
5.1.1	✓✓RT The Forum / *Die Forum*	2RT correct shop (2)	MP L1 E
5.1.2	SW ✓✓RT	2RT correct direction (2)	MP L2 E
5.1.3	✓RT 6,201 km × 50 ✓MA = 310,05 km	1RT correct value- 6,201 1MA multiply by 50 laps (2)	M L1 E
5.1.4	Flamingo ✓✓RT	2RT correct road (2)	MP L1 E
5.1.5	Distance between A and B/*Afstand tussen A en B* = 69 mm ✓A Actual distance/ *Werklike afstand* = 69 mm × 13 500 ✓MCA = 931 500 mm = 0,9315 km ✓C Distance = Speed × Time/*Afstand = Spoed × Tyd* ✓SF 0,9315 km = 204 km/h × Time/*Tyd* Time/ *tyd* = 0,9315 km ÷ 204 km/h ✓MCA = 0,004566176471 h ✓CA Time in min/*Tyd in min* = 0,004566176471 h × 60 = 0,2739705882 min ✓C	1A map distance 1MCA multiply by scale 1C convert to km 1SF substitute correct values 1MCA changing subject of formula 1CA simplification 1C convert to minutes. **[Accept measurement from 67 mm to 71 mm. Allow ± 1 mm deviation from province measurement]** **NPR** (7)	MP L3 D
5.1.6	✓A ✓✓O Agree. He will be facing West and that is where the sun sets. *Stem saam. Hy sal in 'n westelike rigting kyk en dit is waar die son sak*	1A agree 2O correct explanation (3)	MP L4 E

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Q/*V*	Solution/*Oplossing*	Explanation/*Verduideliking*	T/L
5.2.1	Start time/ *Begintyd* ✓RT ✓RT 23:28:54 – 00:01:35,490 23:27:18,51 ✓A	 1RT correct value 1RT correct value 1A simplification (3)	M L2 M
* 5.2.2	1:29:08,289 Time in seconds/*Tyd in sekondes*: ✓C ✓C =(1 × 60 × 60) s + (29 × 60) s + 8,289 s =3 600 s + 1 740 s + 8,289 s = 5 348,289 s ✓CA Average lap-time/ *Gemiddelde rondte tyd* = 5 348,289 s ÷ 50 ✓MCA = 106,96578 seconds/*sekondes* ✓CA INVALID/ *ONGELDIG* ✓O **OR/OF** Total time ÷ number of laps = Ave time/ *Totale tyd ÷ getal rondtes = Gemiddelde tyd* Total time = Ave time × number of laps/ *Totale tyd = Gemiddelde tyd × getal rondtes* = 106 s × 50 ✓MCA = 5 300 sec ✓CA ✓C ✓C ✓C = 1 hour 28 min 20 sec INVALID/ *ONGELDIG* ✓O	 1C converting hours to seconds 1C minutes to seconds 1CA simplification 1MCA divide by laps 1CA simplification 1O conclusion **OR/OF** 1MCA multiply by laps 1CA simplification 1C correct 1 hour 1C correct 28 minutes 1C correct 20 seconds 1O conclusion (6)	M L4 D
5.3.1	Inside length/*Binne lengte*: ✓MA ✓C ✓RT 630 mm – 2(25 mm + 45 mm) = 630 mm – 140 mm = 490 mm ✓CA Inside width/ *binne breedte*: 420 mm – 2(25 mm + 45 mm) ✓MCA = 420 mm – 140 mm = 280 mm ✓CA	1C conversion 1RT correct value - 45 mm 1MA subtracting from length 1CA inside length 1MCA subtracting from width 1CA simplification (6)	M L3 M

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Q/*V*	Solution/*Oplossing*	Explanation/*Verduideliking*	T/L
5.3.2	Lengthwise/ *lengtegewys*: ✓MA 490 mm – 485 mm = 5 mm ✓CA VALID/ *GELDIG* ✓O **OR/OF** Widthwise/ *breedtegewys*: ✓MA 280 mm – 270 mm = 10 mm ✓CA ✓O VALID/ *GELDIG*	**CA from Q 5.3.1** 1 MA subtracting from 490 mm 1 CA simplification 1 O conclusion **OR/OF** 1 MA subtracting from 280 mm 1 CA simplification 1 O conclusion (3)	M L4 D
		[36]	
		TOTAL/*TOTAAL*: 150	

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Marking Guideline Notes		
1.1.1	Number Scale/*Getalleskaal/Syferskaal*	2/2 marks
1.1.2	1 000 000	2/2 marks
1.1.3	$2 \times \pi \times \text{radius}^2 + 2 \times \pi \times \text{radius} \times \text{height}$/*hoogte*	2/2 marks
1.1.4	Plan that shows the layout of a building, as seen from above *Plan wat die uitleg van 'n gebou toon, soos van bo gesien*	2/2 marks
1.3.2	28,20°	1/2 marks
1.3.3	–5,4 OR –5,3 AO	1/2 marks
3.1.1	33,9 m OR 45,2 m	2/3 marks
3.1.2a	$3{,}142 \times (120\text{ cm})^2 \times 50$ $= 2\,262\,240\text{ cm}^3$	3/4 marks
3.1.2b	$3{,}142 \times (120\text{ cm} + 20\text{ cm})$ $= 439{,}88\text{ cm}$	2/3 marks
	$3{,}142 \times 120\text{ cm}$ $= 377{,}04\text{ cm}$	1/3 marks
3.2.2	R125,80 + R657,40 + R1 250 = R2 033,20 R2 033,20 × 1,15 = R2 338,18	4/5 marks
4.1.2	Accept answer as 52 hrs 30 min	5/5 marks
4.3.3	Accept reverse calculation e.g. 8,5 + (10 × 17 cm) + 12 cm + 8,5 = 199 cm VALID/*GELDIG*	4/4 marks
5.2.2	1:29:08,289 Time in seconds/*Tyd in sekondes*: =(1 × 60 × 60) s + (29 × 60) s + 8,289 s =3 600 s + 1 740 s + 8,289 s = 5 348,289 s VALID/*GELDIG*	4/6 marks
	Average lap-time/ *Gemiddelde rondte tyd* = 5 348,289 s ÷ 50 = 106,96578 seconds/*sekondes* INVALID/ *ONGELDIG*	4/6 marks

APPROVED MARKING GUIDELINE PUBLIC EXAMINATION

S.J. TUNE INTERNAL MODERATOR DBE

M.M. TSHABALALA EXT. MODERATOR UMALUSI

UMALUSI EXT. MODERATOR