LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
EDUCATION

NATIONAL SENIOR CERTIFICATE

NASIONALE SENIOR SERTIFIKAAT

GRADE/GRAAD 12

MATHEMATICAL LITERACY P2

WISKUNDIGE GELETTERHEID V2

SEPTEMBER EXAMINATION 2025

MARKING GUIDELINE / NASIENRIGLY

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MARKS/*PUNTE*: 150

Symbol/Kode	Explanation / Verduideliking
M	Method / Metode
MA	Method with accuracy / Metode met 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 table / grafiek / document / 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. /Penalisering, bv. Vir geen eenhede, verkeerde afronding ens.
R	Rounding off / Afronding
NPR	No penalty for rounding / Geen penalisering vir korrekte afronding nie
NPU	No penalty for omitting correct unit / Geen penaliseringe indien die eenheid uitgelaat is nie, maar wel indien 'n verkeerde eenheid gebruik word
AO	Answer only / Slegs antwoord
MCA	Method with consistent accuracy / Metode met volgehoue akkuraatheid
RCA	Rounding consistent with accuracy / Afronding met volgehoue akkuraatheid

This marking guideline consists of 15 pages / Hierdie nasienriglyne bestaan uit 15 bladsye

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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 for marking, if a candidate makes one mistake one mark is deducted.
- A conclusion mark can only be given if relevant calculations precedes 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 EESRSTE 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 nasiernriglyne toegepas; di thou egter op by die tweede berekeningsfout.
- Wanneer 'n kandidaat aflesings vanaf 'n grafiek, tabel, uitlegplan en kaart aanbied en ekstra antwoorde gee, penaliseer vir elke ekstra item.
- Afronding tel as 'n afsonderlike punt.
- Die algemene beginsel van nasien is; as 'n leerder een fout maak, word een punt afgetrek
- 'n Gevolgtrekkingspunt kan slegs toegeken word indien relevante berekeninge dit voorafgaan.
- Geen penaliseering vir afronding (NPR) nie as die eerste desimaal korrek is.

QUESTION / VRAAG 1 [30 MARKS/30 PUNTE] Answer only AO- full marks / Slegs antwoorde (AO) – vol punte			
Q / V	**Solution / Oplossing**	**Explanation / Verduideliking**	**T & L**
1.1			
1.1.1	Street map / Straat kaart ✓✓A	2 A correct answer (2)	MP L1
1.1.2	Boundary street and Hermanus street / Boundary straat en Hermanus straat ✓✓A	2A for correct streets (2)	MP L1
1.1.3	Hospital van Velden Memorial / Hospitaal van Velden Memorial ✓✓A	2A correct name (2)	MP L1
1.1.4	✓RT ✓RT R36 and / en R71	1 RT for R36 1RT for R71 (2)	MP L1

1.1.5	Regional / Provincial roads / Streek / Provinsiale paaie ✓✓A	2A correct answer (2)	MP L1
1.1.6.	58 mm ✓✓A	2A correct distance **Accept 57 mm - 59 mm** (2)	MP L1
1.2			
1.2.1	✓A ✓A 12 - hour format and 24 - hour format 12 – uur formaat en 24 – uur formaat **OR** ✓A ✓A Analogue and Digital Analogies en Digitaal	1A correct format 1A second correct format **OR** 1A correct format 1A second correct format (2)	M L1
1.2.2	20:59 ✓✓A	2 A correct time **Accept 21:00** (2)	M L1
1.2.3	Seconds / Sekondes ✓✓A	2A correct answer (2)	M L1
1.2.4	Ten minutes past ten / Tien minute oor tien ✓✓A	2A correct answer **Accept: ten past ten** (2)	M L1
1.3			
1.3.1	D ✓✓A	2A correct answer (2)	MP L1
1.3.2	A ✓✓A	2A correct answer (2)	MP L1
1.3.3	B ✓✓A	2A correct answer (2)	MP L1
1.3.4	C ✓✓A **(NB: If all learners in class did not write, mark out of 28 and scale to 30 marks)**	2A correct answer (2)	MP L1
1.3.5	E ✓✓A	2A correct answer (2)	MP L1
		[30]	

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QUESTION / VRAAG 2 (36 MARKS / 36 PUNTE)			
Q / V	**Solution / Oplossing**	**Explanation / Verduideliking**	**T & L**
2.1			
2.1.1	Bar scale / staafskaal. ✓✓A	2A correct answer (2)	MP L1
2.1.2	50 mm ✓A 50 mm = 150 km × 1 000 000 ✓C 50mm = 150 000 000 mm (÷ 50) ✓M 1: 3 000 000 ✓CA **OR / OF** 5 cm ✓A 5 cm = 150 km × 100 000 ✓C 5cm = 15 000 000 cm (÷ 5) ✓M 1: 3 000 000 ✓CA	1A measured value 1C correct conversion 1M dividing by 50 1CA simplification **Accept: 49 – 51 mm** **OR** 1A measured value 1C correct conversion 1M dividing by 5 1CA simplification **Accept: 4,9 – 5,1 cm** NPR (4)	MP L2
2.1.3	North West / Noord - Wes ✓✓A	2A correct direction (2)	MP L2

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2.1.4	8,8 cm ✓A Distance / Afstand = 8,8 cm × 3 000 000 ✓M = 26 400 000 cm ÷ 100 000 ✓C = 264 km ✓CA **OR / OF** 88 mm ✓A Distance / Afstand = 88 mm × 3 000 000 ✓M = 264 000 000 mm ÷ 1 000 000 ✓C = 264 km ✓CA **OR/OF** 8,8cm ✓A Distance / Afstand = $\frac{8,8\text{ cm} \times 150\text{ km}}{5\text{cm}}$ ✓M✓A = 264 km ✓CA **OR/OF** 88 mm ✓A Distance / Afstand = $\frac{88\text{ mm} \times 150\text{ km}}{50\text{mm}}$ ✓M✓A = 264 km ✓CA	**CA from 2.1.2** 1A measured distance 1M multiplying by scale 1C correct conversion 1CA correct answer **Accept 8,7cm-8,9cm** **OR** 1A measured distance 1M multiplying by scale 1C correct conversion 1CA correct answer **Accept 87mm – 89mm** (4)	MP L3
2.1.5	N1 ✓✓A	2A correct answer (2)	MP L1
2.1.6	✓ ✓ ✓RT North West, Gauteng, Mpumalanga Noord Wes, Gauteng, Mpumalanga	3 RT correct provinces (3)	MP L1

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2.1.7	✓A $P = \frac{2}{6}$ ✓A = 0,33 ✓CA	1A numerator 1A denominator 1CA answer (3)	MP L2
2.1.8	$T = \frac{D}{S}$ ✓RT $= \frac{283\ km}{110\ km/h}$ ✓SF = 2,572727273 h ✓CA = 2h + 0,572727273 × 60 ✓C = 2h 34,37min + 20 min ✓MCA = 2h 54,37 min ✓CA ∴ Not correct / Verkeerd ✓O	1A changing the subject of the formula 1 SF substitution 1CA simplification 1C multiplying by 60 1 MCA adding 20 min 1CA correct answer 1O conclusion (7)	MP L4
2.2			
2.2.1	Layout Plan shows the structure of the hall and the arrangement of tables and chairs inside the hall. / Uitlegplan toon die struktuur van die saal en die rangskikking van tafels en stoele binne die saal. ✓✓A	2A Explanation (2)	MP L2
2.2.2	Number of people / Aantal mense =23 × 6 ✓M = 138 people / mense ✓A	1MA Multiplying by 6 1A correct number **AO** (2)	MP L1
2.2.3	Urinals / Men stand up toilets ✓✓A Urinale / Mans staantoilette	2A correct answer **Accept: any suitable name for urinals** (2)	MP L1
2.2.4	✓A Bath room, ideal for quick changes or freshening up./ Badkamer, ideaal vir vinnige veranderinge van kleredrag of verfrissing ✓✓ O	1A for correct name 2O Justification (3)	MP L4
		[36]	

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QUESTION / VRAAG 3 [37 MARKS / 37 PUNTE]			
Q / V	**Solution / Oplossing**	**Explanation / Verduideliking**	**T & L**
3.1			
3.1.1	Volume $= \pi \times radius^2 \times height/hoogte$		M L3
	$0{,}31246\ m^3 = 3{,}142 \times radius^2 \times 1{,}315m$ ✓SF	1SF substitution	
	$radius^2 = \frac{0{,}31246\ m^3}{3{,}142 \times 1{,}315m}$ ✓A	1A changing the subject of the formula	
	$radius = \sqrt[2]{0{,}07562449628\ m^2}$ ✓MA	1MA square root	
	$radius = 0{,}2749990841\ m$ ✓CA	1CA for correct radius	
	Diameter /deursnee $= 0{,}2749990841\ m \times 2$ ✓MCA	1MCA multiplying by 2	
	Diameter / deursnee $= 0{,}549998\ m$ ✓CA $= 0{,}550\ m$ ✓R	1CA correct answer 1R rounding	
	OR / OF		
	Volume $= \pi \times radius^2 \times height/hoogte$		
	$radius^2 = \frac{volume}{\pi \times height/hoogte}$ ✓A	1A changing the subject of the formula	
	$radius^2 = \frac{0{,}31246\ m^3}{3{,}142 \times 1{,}315\ m}$ ✓SF	1 SF substitution	
	$radius = \sqrt[2]{\frac{0{,}31246\ m^3}{3{,}142 \times 1{,}315\ m}}$ ✓MA	1 MA square root	
	$radius = 0{,}2749990841\ m$ ✓CA	1CA simplification	
	Diameter / deursnee $= 0{,}2749990841\ m \times 2$ ✓MCA	1MCA multiplying by 2	
	Diameter / deursnee $= 0{,}549998\ m$ ✓CA $= 0{,}550\ m$ ✓R	1CA correct answer 1R rounding (7)	

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3.1.2	Circumference / Omtrek = $\pi \times$ diameter / deursnee ✓C $= 3.142 \times (0.550\ m \times 100)$ ✓SF $= 3.142 \times 55\ cm$ $= 172{,}81\ cm$ ✓CA	**CA from 3.1.1** 1C conversion 1SF substitution 1CA simplification (3)	M L2
3.1.3	Area of a triangle = $\frac{1}{2}$ base × perpendicular height Oppervlakte van 'n driehoek = ½ basis x loodregte hoogte $= \frac{1}{2} \times 1470\ mm \times 1322\ mm$ ✓SF $= 971\ 670\ mm^2$ ✓CA $= 971\ 670\ mm^2 \times 2$ ✓M $= 1\ 943\ 340\ mm^2$ ✓CA	1SF substitution 1CA simplification 1M multiplying by 2 1CA correct answer (4)	M L3
3.2			
3.2.1	Outside Length / Buitenste lengte $= 30\ m + 8\ m + 8\ m$ ✓M $= 46\ m$ ✓A Outside width / Buitenste breedte $= 20\ m + 5\ m + 5\ m$ ✓M $= 30\ m$ ✓A	1M adding 1 A correct length 1M adding 1A correct width (4)	M L2

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3.2.2	Area of the pool and paving = L × B Oppervlakte van die swembad and plavleisel = L × B = 46 m × 30 ✓SF = 1380 m^2 ✓CA Area of the pool = L × B Oppervlakte van die swembad = L × B = 30 m × 20 m = 600 m^2 ✓CA Area to be paved/ oppervlakte wat geplavlei moet word = 1380 m^2 − 600 m^2 ✓MCA = 780 m^2 ✓CA **OR/ OF** Area to be paved/ oppervlakte wat geplavlei moet word ✓M ✓M = 2(46 m × 5 m) + 2 (20 m × 8 m) ✓M = 2 × 230 m^2 + 2 × 160 m^2 ✓ S = 460 m^2 + 320 m^2 = 780 m^2 ✓CA	**CA from 3.2.1** 1 SF substitution 1CA simplification 1CA simplification 1MCA subtraction 1CA correct answer (5)	M L3
3.2.3	Cost / Koste = 780 m^2 × R200 ✓M = R156 000 ✓CA ∴ It will not be enough / Dit sal nie genoeg wees nie ✓ O	**CA From 3.2.2** 1M multiplying by R200 1CA correct amount 1O conclusion (3)	M/F L4

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3.2.4	Volume = Area × height Volume = oppervlakte × hoogte = 600 m^2 × 1,8 m ✓ SF = 1080 m^3 ✓CA	**CA from 3.2.2** SF substitution CA simplification (2)	M L2
3.3			
3.3.1	Length of pallet in mm / Lengte van palette in mm = 120 cm × 10 = 1 200 mm ✓C Width of pallet in mm / Breedte van die palette in mm = 80cm × 10 = 800 mm ✓MCA Number of paving bricks packed across the length / aantal plaveisel bakstene teen die lengte $= \frac{1200mm}{200mm}$ ✓CA = 6 paving bricks / plaveisel bakstene ✓CA Number of paving bricks packed across the width / Aantal plaveisel bakstene teen die breedte $= \frac{800mm}{100mm}$ = 8 paving bricks ✓CA Total number of paving bricks packed / Aantal gepakte plaveisel bakstene = 6 × 8 × 10 ✓M = 480 bricks / bakstene ✓CA The statement is not correct / Die stelling is verkeerd ✓O	1C Converting length and width to mm 1MCA Dividing length by length 1CA Simplification 1CA Simplification 1M multiplying correct values 1CA Number of paving bricks 1O Conclusion	M L4

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	OR / OF	**OR**	
	Length of pallet in mm / Lengte van die pallet in mm = 120cm × 10 = 1 200mm ✓C	1C Converting length and width to mm	
	Width of pallet in mm / Breedte van die palet in mm = 80cm × 10 = 800mm		
	Number of paving bricks packed across the length / Aantal gepakte plaveisel bakstene teen die lengte $= \frac{1200mm}{100mm}$ ✓MCA	1MCA Dividing length by length	
	= 12 paving bricks / plaveisel bakstene ✓CA	1CA Simplification	
	Number of paving bricks packed across the width / aantal van gepakte bakstene teen die breedte $= \frac{800mm}{200mm}$		
	= 4 paving bricks / plaveisel bakstene ✓CA	1CA Simplification	
	Total number of paving bricks packed/ Aantal gepakte plaveisel bakstene = 12 × 4 × 10 ✓M	1M multiplying correct values	
	= 480 bricks /bakstene ✓CA	1CA Number of paving bricks	
	The statement is not correct / Die stelling is verkeerd ✓O	1O Conclusion	

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	OR / OF	**OR**	
	Length of paving brick in cm / Lengte van plaveisel bakstene in cm = 200mm ÷ 10 = 20cm ✓C	1C Converting length and width to cm	
	Width of pallet in cm / Breedte van die palet in cm = 100mm ÷10 = 10cm		
	Number of paving bricks packed across the length / Aantal gepakte plaveisel bakstene teen die lengte $= \frac{120\text{cm}}{20\text{cm}}$ ✓MCA = 6 paving bricks / plaveisel bakstene ✓CA	1MCA Dividing length by length 1CA Simplification	
	Number of paving bricks packed across the width / Aantal gepakte plaveisel bakstene teen die breedte $= \frac{80\text{cm}}{10\text{cm}}$ = 8 paving bricks / plaveisel bakstene✓ CA	1CA Simplification	
	Total number of paving bricks packed / Aantal gepakte plaveisel bakstene = 6 × 8 × 10 ✓M = 480 bricks / bakstene ✓CA The statement is not correct / Die stelling is verkeerd✓ O	1M multiplying correct values 1CA Number of paving bricks 1O Conclusion	

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	OR / OF Length of paving brick in cm / Lengte van die plaveisel bakstene in cm = 200mm ÷10 = 20cm ✓C Width of pallet in cm / Breedte van plaveisel bakstene in cm = 100mm ÷10 = 10cm ✓MCA Number of paving bricks packed across the length / Aantal gepakte plaveisel bakstene teen die lengte $= \frac{120cm}{10cm}$ = 12 paving bricks / plavei bakstene ✓CA Number of paving bricks packed across the width / Aantal gepakte plaveisel bakstene teen die breedte $= \frac{80cm}{20cm}$ = 4 paving bricks/ plaveisel bakstene ✓CA Total number of paving bricks packed / Aantal gepakte plaveisel bakstene = 12 × 4 ×10 ✓M = 480 bricks/bakstene ✓CA The statement is not correct./ Die stelling is verkeerd ✓O	**OR** 1C Converting length and width to cm 1MCA Dividing length by length 1CA Simplification 1CA Simplification 1M multiplying correct values 1CA Number of paving bricks 1O Conclusion (7)	

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3.3.2	Height of the packed pallet / Hoogte van die gepakte palet = 60mm × 10 rows / rye + 144mm ✓M = 744 mm ✓CA	1M multiplying by 10 and adding 144 1CA Simplification (2)	M L2
		[37]	

QUESTION/VRAAG 4 [30 MARKS/30 PUNTE]

Q/V	Solution / Oplossing	Explanation / Verduideliking	T & L
4.1.1	✓RT Length / Lengte = 31,35miles × 1,609 ✓C = 50,44 km ✓A	1RT reading 31.35 1C correct conversion 1A correct answer (3)	M L 2
4.1.2	Radius = $\frac{24,93 \text{ feet}}{2}$ ✓MA = 12,465 feet ✓A = $\frac{12,465 \text{ feet}}{0,0328}$ = 380,0304878 cm ✓C = $\frac{380,0304878 \text{ cm}}{100}$ ✓C = 3,8003…m = 3.8 m ✓CA	1MA concept of radius 1A simplification 1C conversion to centimetre 1C conversion to metres 1CA correct answer **NPU** (5)	M L3

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	OR/OF Radius = $\frac{24{,}93 \text{ feet}}{0{,}0328}$ ✓C = 760.06097561 ✓A = $\frac{760{,}06097561 \text{ cm}}{2}$ = 380,0304878 cm ✓S = $\frac{380{,}0304878 \text{ cm}}{100}$ ✓C = 3,8003…m = 3.8 m ✓CA		
4.1.3	L = 50,44 km × 1000 ✓M = 50 440 m ✓A SA = 2 × π × *radius* × *height/hoogte* = 2 × 3,142 × 3,8 m × 50 440 m ✓SF = 1 204 466,848 m^2 ✓CA	**CA from 4.1.1 and 4.1.2** 1M multiplying by 1 000 1A correct conversion 1 SF substitution 1CA simplification (4)	M L3
4.2			
4.2.1	Europe / Europa ✓✓A	2A correct continent (2)	MP L1
4.2.2 (a)	D = s × t A✓ Time/tyd = $\frac{490\text{km}}{300\text{km/h}}$ ✓SF = 1,63hrs / ure ✓S = 1hr 38 min ✓C	1A changing the subject 1SF substitution 1S simplification 1C conversion of time (4)	M L2

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4.2.2 (b)	✓ A No, real-world factors like speed restrictions and stops may extend the time. / Nee, werklike faktore soos spoedbeperkings en stilhouplekke kan die tyd verleng ✓✓ O	1A correct answer 2O reasoning (3)	M/F L4
4.2.3 (a)	London time / tyd : 1:47 – 1hour ✓MA = 12:47 ✓A Time taken / tyd geneem = 12:47 – 10:30 ✓MCA = 2 hours 17 minutes ✓CA **OR/OF** Paris time / Parys tyd : 10:30 + 1 hour ✓MA = 11:30 ✓A Time taken/ tyd geneem = 1:47 – 11:30 ✓ MCA = 2 hours 17 minutes ✓CA	1MA subtracting 1 hour 1A difference 1MCA subtracting 10:30 1CA answer **OR** 1MA adding 1 hour 1A correct answer 1MCA for subtraction from 1:47 1CA correct answer (4)	M L3
4.2.3 (b)	Post meridiem / After midday/Afternoon / Middag ✓✓A	2A Explanation (2)	M L2
4.2.4	P (occupied seat/ sitplekke beset) $= \frac{80}{100}$ ✓✓A $= \frac{4}{5}$ OR 0,8 ✓CA	1A numerator 1A Denominator 1 CA correct answer (3)	P L2
		[30]	

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QUESTION/VRAAG 5 [17 MARKS/17 PUNTE]

Q/V	Solution /Oplossing	Explanation / Verduidelikings	T&L
5.1			
5.1.1	Disabled parking / Parkeerplek vir gestremdes $= 2\,400 \text{ mm} \times \frac{150}{100}$ ✓M $= 3\,600 \text{ mm}$ ✓A $= 3\,600 \text{ mm} - 2\,400 \text{ mm}$ $= 1\,200 \text{ mm}$ ✓CA	1M calculating % 1A Answer CA difference (3)	M L2
5.1.2	Area of disabled parking = L × B Oppervlakte van die parkeerplekke vir gestremdes = L x B $= 3\,600 \text{ mm} \times 4\,800 \text{ mm}$ ✓SF $= 17\,280\,000\ mm^2$ ✓CA Area of standard parking = L × B Oppervlakte van standaard parkeerplekke $= 2\,400 \text{ mm} \times 4\,800 \text{ mm}$ $= 11\,520\,000\ mm^2$ ✓CA Difference / Verskil $= 17\,280\,000\ mm^2 - 11\,520\,000\ mm^2$ ✓M $= 5\,760\,000\ mm^2$ ✓CA ∴ Correct / Korrekte ✓O	**MCA from 5.1.1** 1SF Correct Substitution 1CA Simplification 1CA Simplification 1 M difference 1CA correct answer 1 O conclusion	M L4

	OR/OF Area of disabled parking = L × B Oppervlakte van parkeerplekke vir gestremdes = L x B = 3 600 mm × 4 800 mm ✓SF = 17 280 000 mm^2 ✓CA Area of standard parking / oppervlakte van standaard parkeerplek = L × B = 2 400 mm × 4 800 mm = 11 520 000 mm^2 ✓CA 50 % area = $\frac{17\,280\,000\,mm^2}{11\,520\,000\,mm^2}$ ✓M = 1,5 ✓CA ∴ Correct / Korrekte ✓O	**OR** 1SF Correct Substitution 1CA Simplification 1CA Simplification 1M dividing disabled parking by standard parking 1CA correct answer 1O conclusion (6)	
5.2.1	Victoria falls / Victoria valle ✓✓ RT	2 RT correct name (2)	MP L1
5.2.2.	Volume of flow = flow rate per second × time Volume van vloei = vloeitempo per sekonde × tyd ✓ C = 2 400 m^3 × (60 × 60) ✓SF = 8 640 000 m^3 ✓ CA **OR/OF** Volume of flow = flow rate per second × time Volume van vloei = vloeitempo per sekonde x tyd ✓C = 2 400 m^3 × 3 600 ✓SF = 8 640 000 m^3 ✓CA	1SF Substituting correct values 1C Conversion 1CA Simplification (3) 1SF Substituting correct values 1C Conversion 1CA Simplification	M L3

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5.2.3	Niagara : Angela ✓ RT 51 : 979 ✓A 1 : 19,196078.... 1 : 19, 2 ✓CA	 1RT both values 1A correct order 1 CA simplification (3)	MP L2
		[17]	
		TOTAL/TOTAAL : 150	

