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FINAL

NATIONAL SENIOR CERTIFICATE

GRADE 12

MATHEMATICAL LITERACY P2

JUNE EXAMINATION

MARKING GUIDELINE

2025

MARKS: 100

Symbol	Explanation
MA	Method with Accuracy
CA	Consistent Accuracy
MCA	Method with Consistent Accuracy
A	Accuracy (Answer)
AO	Answer only full marks
C	Conversion
S	Simplification
RT	Reading from table / Reading from graph / Reading from map/Reading from plan
SF	Substitution in formula
O	Opinion/ Explanation
J	Justification
P	Penalty e.g. for no units, incorrect rounding, etc
R	Rounding
NPR	No penalty for rounding
NPU	No penalty for omitting units but incorrect unit is penalised

This marking guideline consists of 8 pages SAEXAM PAPERS

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Please Turn Over

NOTES:

- 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.
- A conclusion mark can only be awarded if relevant calculations of at least $\frac{1}{3}$ of the maximum mark of the subquestion has been awarded.
- No penalty for rounding (NPR) if the tirst decimal is correct, except questions involving money

Ques	Solution	Explanation		T&L
1.1.1	BMI status classifies a person's BMI into weight categories such as underweight, healthy weight, over weight and obese.	2O correct explanation	(2)	M L1 E
1.1.2	Underweight✓✓RT	2RT correct answer	(2)	M L1 E
1.1.3	BMI = 25✓√RT	2RT correct answer Accept: 23 to 25	(2)	M L1 E
1.1.4	Number of $kg = 225 \div 2,20462 \checkmark MA$ = 102,06 $kg \checkmark A$	1MA dividing by 2,20462 1A correct answer	(2)	M L1 M
1.1.5	It's an unhealthy weight status that leads to co-morbidities/ disease ✓ ✓ O	2O correct explanation	(2)	M L1 E
1.2.1	I.ayout plan /map ✓ ✓ RT	2RT correct answer Accept: Street map	(2)	MP L1 E
1.2.2	N3✓✓RT	2RT correct answer.	(2)	MP L1 E
1.2.3	North West ✓✓RT OR NW✓✓RT	2RT correct answer.	(2)	MP L1 E
1.2.4	Left turn✓✓RT	2RT correct answer.	30-6	MP L1
	Turn left ✓✓RT SA EXAM PAP	ERS	(2)	Е

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1.2.5	It's on the corner of Botanic Gardens Road and Steve Biko Road. ✓ ✓ RT	2RT correct answer.	93	MP L1
	OR			Е
	Opposite Greyville Racecourse/ Steve Biko Campus. ✓ ✓ RT			
	OR			
	Corner of ML Sultan and Steve Biko ✓ RT			
	OR			
	Corner of Sparks Rd/Overport Dr/Sydenham Rd and ML Sultan ✓ RT		(2)	
1.2.6	Time = 15:56 + 7 mins ✓ MA	1MA adding	7	MP
	= 16:03 ✓ A	1A correct answer.		L1 E
	= 4:03pm✓A	1A correct format		
		W.	(3)	
1.2.7	Berea Road North ✓✓RT	2RT correct answer		MP
	OR Berea Road South ✓✓RT		(2)	L1 E
			[25]	



Elevation shows the front/back and side view of the building/height of buildings/windows/doors O 2.1.3 Side/Wall of the floor plan with two windows A 2.1.4 Measured Length 9,5cm A Actual length = 25cm+550cm+25cm+680cm+25cm MA IMA adding = 1305cm A 1MA concept of se 15 simplification 18 rounding Accept leeway of 12 simplification 18 rounding Accept leeway of 12 Robben Island RT 2.2.1 Robben Island RT 2.2.2 7 VRT 2.2.3 Bar/Line /Graphic scale A 2.2.4 1,3cm on the map represents 10km in reality O OR 1.3mm on the map represents 10km in reality O OR 2.2.5 Distance on the map = 5,3 cm A MCA MCA Distance on the map = 53 mm A OR OR Distance on the map = 53 mm A MCA MCA MCA MCA MCA MCA MCA A correct distance (distance of distance of	T	Explanation T	Solution	Т&
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Ques	Solution	Explanation		T& L
3.1.1	Perimeter = $4 (7m) \checkmark SF$ = $28m \checkmark A$	1SF substitution 1A correct answer	(2)	M L2 E
3.1.2	Gate in metres = $90\text{cm} \div 100 \checkmark \text{C}$ =0.9 m $\checkmark \text{MA} \qquad \checkmark \text{MA}$ Lengths of Fencing $[28\text{m} - (4 \times 0.9\text{m})] \div 1.2\text{m}$ = $20.33 \checkmark \text{CA}$ = $21 \checkmark \text{R}$	CA from Q3.1.1 1C conversion 1MA subtracting 4 gates 1MA dividing by 1,2 1CA answer 1R rounding		M L3 M
3.1.3	✓MCA ✓MCA ✓MA $ Total cost = (R330×21) + (R495 × 4) + (R250×2) $ $ = R9 410 ✓CA$	CA from Q3.1.2 1MCA multiplying by 21 1MCA multiplying by 4 1MA multiplying R250 by 2 1CA answer	(5)	M L2 M
3.1.4	Probability (Lavender) = $\frac{2\checkmark A}{14 \checkmark A} \times 100 \% \checkmark MA$ = 14,29% \sqrt{A}	1A numerator 1A denominator 1MA percentage concept 1A answer NPR	(4)	P L2 E
3.1.5	Probability (roses) = 0 ✓ ✓ A	2A Correct Answer	(2)	P L2 E



3.2.1	Radius of the pond = 1,35 m ÷ 2√MA	1MA dividing by 2	M
	= 0,675 m✓A	1A correct answer AO	(2) L1 E
3.2.2	Area of garden = 4,5 m × 3,2 m \checkmark SF = 14,4m $^2\checkmark$ A Area of the pond = 3,142 × (0,675 m) $^2\checkmark$ SF = 1,43157375 m $^2\checkmark$ CA Area of paving = 14,4m 2 - 1,43157375 m 2 = 12,97m $^2\checkmark$ CA	CA from Q3.2.1 1SF substitution 1A correct Area 1SF substitution 1CA correct Area	M L3 M
		NPR	(5)
3.2.3	Number of bricks = $12,97\text{m}^2 \div 0,45\text{m}^2\checkmark\text{MCA}$ = $28,82\checkmark\text{CA}$ = $29\checkmark\text{R}$	CA from Q3.2.2 1MCA dividing by 0,45 1CA answer 1R rounding	M L2 M
			(3)
			27]



Ques	Solution	Explanation	T &L
4.1.1	Diameter = $18 \text{cm} \times \frac{2}{3} \checkmark \text{MA}$ = $12 \text{cm} \checkmark \text{A}$	1MA multiplying by $\frac{2}{3}$ 1A correct answer	M L4 D
	Radius = 12cm ÷ 2 ✓ MCA = 6cm ✓ CA	1MCA dividing by 2 1CA answer	
	$SA=(2 \times 3,142 \times (6cm)^2) + (2 \times 3,142 \times 6cm \times 18cm) \checkmark SF$	1SF substitution	
	= 904,896 cm² ✓ CA	1CA correct answer (6)	
4.1.2	$SA = 904,896 \text{ cm}^2 \div 100^2 \checkmark \text{C}$	CA from Q4.1.1 1C conversion	M L3 M
	$= 0,0904896 \text{ m}^2$		
	Number of cylinders = $1m^2 \div 0,0904896 \checkmark MCA$	1MCA dividing by 0,0940896	
	= 11,05 ✓CA	1CA answer	
	= 11 √ R	1R rounding	
		(4)	
4.1.3	Weight of sweets in grams = 0,45 × 1000 ✓ C	1C conversion	M
	=450g √ A	1A Correct answer	L3 M
	Number of sweets = 450g ÷ 25 ✓ MA	1MA dividing by 25	
	= 18 ✓A	1A correct answer	
	OR	OR	
	Weight of sweets in kg = 25 ÷ 1000 ✓ C	1C conversion	
	=0,025 kg✓A	1A correct answer	
	Number of sweets = $0.45 \div 0.025$ MA	1MA dividing by 0,025	
	= 18 ✓A	1A correct answer	
	SA EXAM P	APERS (4)	

4.2.1	300kg = 300 litres		M
	$300 \text{ litres} = 300 \ 000 \text{cm}^3 \checkmark \text{C}$	1C convert to cm ³	L4 D
	Radius = 30cm√A	1A radius	
	$300\ 000\text{cm}^3 = 3,142 \times (30\text{cm})^2 \times \text{height} \checkmark \text{SF}$	1SF substitution	
	Height = $\frac{300\ 000}{3,142 \times 900}$ \checkmark S	1S simplification	
	=106,09cm ÷ 100		
	= 1,06 m✓CA	1CA answer	
	The claim is incorrect ✓ O	10 Conclusion	
		NPR (6)	
4.2.2	Capacity = 250m€ × 95% ✓ MA	1 MA multiplying by 95%	M L3
	= 237,5mℓ		M
	300 litres = 300 000 mℓ ✓ C	1C convert to mℓ	
	Number of bottles = 300 000mℓ ÷ 237,5mℓ ✓ MCA	1MCA dividing by 237,50	
	= 1263,15		
	=1263 √ R	1R Rounding (4)	
		[24]	
		TOTAL MARKS: 100	
	I .		4.

