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 EDUCATION
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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

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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 sub-question has been awarded.
- No penalty for rounding (NPR) if the first decimal is correct, except questions involving money

QUESTION 1 [25 MARKS] ANSWER ONLY FULL MARKS			
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. ✓✓O	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 (2) Accept: 23 to 25	M L1 E
1.1.4	Number of kg = $225 \div 2,20462$ ✓MA = 102,06 kg ✓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	Layout plan /map ✓✓RT	2RT correct answer (2) Accept: Street map	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 OR Turn left ✓✓RT	2RT correct answer. (2)	MP L1 E



1.2.5	<p>It's on the corner of Botanic Gardens Road and Steve Biko Road.✓✓RT</p> <p style="text-align: center;">OR</p> <p>Opposite Greyville Racecourse/ Steve Biko Campus.✓✓RT</p> <p style="text-align: center;">OR</p> <p>Corner of ML Sultan and Steve Biko✓✓RT</p> <p style="text-align: center;">OR</p> <p>Corner of Sparks Rd/Overport Dr/Sydenham Rd and ML Sultan✓✓RT</p>	<p>2RT correct answer.</p> <p style="text-align: right;">(2)</p>	MP L1 E
1.2.6	<p>Time = 15:56 + 7 mins✓MA</p> <p style="padding-left: 40px;">= 16:03✓A</p> <p style="padding-left: 40px;">= 4:03pm✓A</p>	<p>1MA adding</p> <p>1A correct answer.</p> <p>1A correct format</p> <p style="text-align: right;">(3)</p>	MP L1 E
1.2.7	<p>Berea Road North ✓✓RT</p> <p style="text-align: center;">OR</p> <p>Berea Road South ✓✓RT</p>	<p>2RT correct answer</p> <p style="text-align: right;">(2)</p>	MP L1 E
		[25]	



QUESTION 2 [24 MARKS]			
Ques	Solution	Explanation	T&L
2.1.1	Floor plan✓✓A	2A correct answer (2)	MP L1 E
2.1.2	Floor plan shows aerial/top/birds eye view.✓O Elevation shows the front/back and side view of the building/height of buildings/windows/doors✓O	2O correct explanation (2)	MP L1 E
2.1.3	Side/Wall of the floor plan with two windows✓✓A	2A correct answer (2)	MP L2 M
2.1.4	Measured Length 9,5cm ✓A Actual length = 25cm+550cm+25cm+680cm+25cm ✓MA = 1305cm ✓A 9,5cm = 1 305cm✓MA 1 cm = 137,368cm✓S 1:137✓R	1A measuring length 1MA adding 1A correct answer 1MA concept of scale 1S simplification 1R rounding (6) Accept leeway of 1	MP L3 M
2.2.1	Robben Island✓✓RT	2RT correct answer (2)	MP L2 E
2.2.2	7 ✓✓RT	2RT correct answer (2)	MP L2
2.2.3	Bar/Line /Graphic scale ✓✓A	2A correct answer (2)	MP L1 E
2.2.4	1,3cm on the map represents 10km in reality✓✓O OR 13mm on the map represents 10km in reality✓✓O	2O correct explanation Accept leeway of 0.1cm/1mm (2)	MP L2 E
2.2.5	Distance on the map = 5,3 cm ✓A ✓MCA Actual distance = (5,3cm × 10) ÷ 1,3✓MCA = 40,77km✓CA OR Distance on the map = 53 mm ✓A ✓MCA Actual distance = (53mm × 10) ÷ 13✓MCA = 40,77km✓CA	CA from Q2.2.4 1A correct distance 1MCA multiplying by 10 1MCA dividing by 1,3 1CA answer OR 1A correct distance 1MCA multiplying by 10 1MCA dividing by 13 1CA answer Accept leeway of 1 NPR (4)	MP L3 M
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QUESTION 3 [27 MARKS]			
Ques	Solution	Explanation	T&L
3.1.1	Perimeter = 4 (7m) ✓SF = 28m ✓A	1SF substitution 1A correct answer (2)	M L2 E
3.1.2	Gate in metres = 90cm ÷ 100 ✓C = 0,9 m ✓MA ✓MA Lengths of Fencing = $[28m - (4 \times 0,9m)] \div 1,2m$ = 20,33 ✓CA = 21 ✓R	CA from Q3.1.1 1C conversion 1MA subtracting 4 gates 1MA dividing by 1,2 1CA answer 1R rounding (5)	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 (4)	M L2 M
3.1.4	Probability (Lavender) = $\frac{2 \checkmark A}{14 \checkmark A} \times 100 \% \checkmark MA$ = 14,29% ✓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	<p>Radius of the pond = $1,35 \text{ m} \div 2 \checkmark \text{MA}$</p> <p>= $0,675 \text{ m} \checkmark \text{A}$</p>	<p>1MA dividing by 2</p> <p>1A correct answer</p> <p>AO (2)</p>	M L1 E
3.2.2	<p>Area of garden = $4,5 \text{ m} \times 3,2 \text{ m} \checkmark \text{SF}$</p> <p>= $14,4 \text{ m}^2 \checkmark \text{A}$</p> <p>Area of the pond = $3,142 \times (0,675 \text{ m})^2 \checkmark \text{SF}$</p> <p>= $1,43157375 \text{ m}^2 \checkmark \text{CA}$</p> <p>Area of paving = $14,4 \text{ m}^2 - 1,43157375 \text{ m}^2$</p> <p>= $12,97 \text{ m}^2 \checkmark \text{CA}$</p>	<p>CA from Q3.2.1</p> <p>1SF substitution</p> <p>1A correct Area</p> <p>1SF substitution</p> <p>1CA correct Area</p> <p>1CA Correct answer</p> <p>NPR (5)</p>	M L3 M
3.2.3	<p>Number of bricks = $12,97 \text{ m}^2 \div 0,45 \text{ m}^2 \checkmark \text{MCA}$</p> <p>= $28,82 \checkmark \text{CA}$</p> <p>= $29 \checkmark \text{R}$</p>	<p>CA from Q3.2.2</p> <p>1MCA dividing by 0,45</p> <p>1CA answer</p> <p>1R rounding</p> <p>(3)</p>	M L2 M
		[27]	



QUESTION 4 [24 MARKS]			
Ques	Solution	Explanation	T &L
4.1.1	$\text{Diameter} = 18\text{cm} \times \frac{2}{3} \checkmark \text{MA}$ $= 12\text{cm} \checkmark \text{A}$ $\text{Radius} = 12\text{cm} \div 2 \checkmark \text{MCA}$ $= 6\text{cm} \checkmark \text{CA}$ $\text{SA} = (2 \times 3,142 \times (6\text{cm})^2) + (2 \times 3,142 \times 6\text{cm} \times 18\text{cm}) \checkmark \text{SF}$ $= 904,896 \text{ cm}^2 \checkmark \text{CA}$	1MA multiplying by $\frac{2}{3}$ 1A correct answer 1MCA dividing by 2 1CA answer 1SF substitution 1CA correct answer (6)	M L4 D
4.1.2	$\text{SA} = 904,896 \text{ cm}^2 \div 100^2 \checkmark \text{C}$ $= 0,0904896 \text{ m}^2$ $\text{Number of cylinders} = 1\text{m}^2 \div 0,0904896 \checkmark \text{MCA}$ $= 11,05 \checkmark \text{CA}$ $= 11 \checkmark \text{R}$	CA from Q4.1.1 1C conversion 1MCA dividing by 0,0940896 1CA answer 1R rounding (4)	M L3 M
4.1.3	$\text{Weight of sweets in grams} = 0,45 \times 1000 \checkmark \text{C}$ $= 450\text{g} \checkmark \text{A}$ $\text{Number of sweets} = 450\text{g} \div 25 \checkmark \text{MA}$ $= 18 \checkmark \text{A}$ <p style="text-align: center;">OR</p> $\text{Weight of sweets in kg} = 25 \div 1000 \checkmark \text{C}$ $= 0,025 \text{ kg} \checkmark \text{A}$ $\text{Number of sweets} = 0,45 \div 0,025 \checkmark \text{MA}$ $= 18 \checkmark \text{A}$	1C conversion 1A Correct answer 1MA dividing by 25 1A correct answer <p style="text-align: center;">OR</p> 1C conversion 1A correct answer 1MA dividing by 0,025 1A correct answer (4)	M L3 M



4.2.1	<p>300kg = 300 litres</p> <p>300 litres = 300 000cm³✓C</p> <p>Radius = 30cm✓A</p> <p>300 000cm³ = 3,142 × (30cm)² × height✓SF</p> <p>Height = $\frac{300\,000}{3,142 \times 900}$ ✓S</p> <p>=106,09cm ÷ 100</p> <p>= 1,06 m✓CA</p> <p>The claim is incorrect✓O</p>	<p>1C convert to cm³</p> <p>1A radius</p> <p>1SF substitution</p> <p>1S simplification</p> <p>1CA answer</p> <p>1O Conclusion</p> <p>NPR (6)</p>	M L4 D
4.2.2	<p>Capacity = 250ml × 95%✓MA</p> <p>= 237,5ml</p> <p>300 litres = 300 000 ml✓C</p> <p>Number of bottles = 300 000ml ÷ 237,5ml✓MCA</p> <p>= 1263,15</p> <p>=1263✓R</p>	<p>1 MA multiplying by 95%</p> <p>1C convert to ml</p> <p>1MCA dividing by 237,50</p> <p>1R Rounding (4)</p>	M L3 M
		[24]	
		TOTAL MARKS: 100	

