KWAZULU-NATAL PROVINCE
EDUCATION
REPUBLIC OF SOUTH AFRICA

PROVINCIAL STANDARDISED ASSESSMENT

GRADE 12

MATHEMATICAL LITERACY P2

JUNE 2026

MARKING GUIDELINES

MARKS: 100

Symbol	Explanation
MA	Method with accuracy
CA	Consistent accuracy
A	Accuracy
C	Conversion
S	Simplification
RT	Reading from a table/graph/document/diagram/map
SF	Correct substitution in a formula
O	Opinion/Explanation/reason/deduction/example
P	Penalty, e.g., for no units, incorrect rounding off, etc.
R	Rounding off
NPR	No penalty for rounding
NPU	No penalty for omitting correct unit
AO	Answer only, full marks
MCA	Method with consistent accuracy
RCA	Rounding consistent with accuracy

These marking guidelines consists of 8 pages

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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 principal, 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. At least a $\frac{1}{3}$ of the mark before the conclusion.
- No penalty for rounding (NPR) if the decimal is correct, except for questions involving money.

QUESTION 1 [21 MARKS] ANSWER ONLY FULL MARKS			
Q	**Solution**	**Explanation**	**T&L**
1.1.1	Number of years = 2026 – 1923 ✓MA = 103 ✓A	1MA subtracting 1923 1A correct answer (2)	M L1 E
1.1.2	1:00pm ✓✓A	2A correct answer (2)	M L1 E
1.1.3	Duration (Day 1) = 24:00 – 13:00 ✓MA = 11 hours ✓A	1MA subtracting time 1A correct answer (2)	M L1 M
1.1.4	A ✓✓A	2A correct answer. **Accept** $\frac{385}{20}$ (2)	M L1 M
1.1.5	✓RT Amount paid = R92 335 × 27 × 2 ✓MA = R4 986 090 ✓A	1RT for R 92 335 1MA multiplying 27 by 2 1A correct answer (3)	M L1 D
1.2.1	Number scale/Ratio scale✓✓A	2A correct answer (2)	MP L1 E

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Q	Solution	Explanation	T&L
1.2.2	1unit on the map represents 1 000 000 units in reality ✓✓O **OR** 1 unit on the map is one million times larger/bigger in reality.✓✓O	2O correct explanation **OR** 2O correct explanation (2)	MP L1 E
1.2.3	Distance = 1 397 × 100 000✓C = 139 700 000 cm✓A	1C multiplying by 100 000 cm 1A correct answer. (2)	MP L1 E
1.2.4	Total number of days = 1 397 km ÷ 700 km✓MA = 1,996 = 2 days✓R	1MA dividing by 700km 1R correct days (2)	MP L1 E
1.2.5	Number of nights = 1✓✓RT	2RT correct number (2)	MP L1 E
		[21]	

QUESTION 2 [25 MARKS]			
Q	**Solution**	**Explanation**	**T&L**
2.1.1	Number of windows = 10 ✓✓A	2A correct answer (2)	MP L1 E
2.1.2	Bedroom 1 and Bedroom 2 ✓✓RT **OR** Bedrooms 1 and 2 ✓✓RT	2RT reading correct rooms **OR** 2RT reading correct rooms (2)	MP L2 E
2.1.3	Right ✓✓A	2A correct answer (2)	MP L1 E
2.1.4	Width = 30 × 30,48 ✓C = 914,4cm✓A	1C multiplying by 30,48 1A correct answer (2)	MP L1 E
2.1.5	Measured Length = 13.1cm ✓A 13,1cm : 914,4cm ✓MCA 1 : 69,80 ✓S 1:70 ✓R	**CA from 2.1.4** 1A measuring length 1MCA concept of scale 1S simplification 1R rounding (4)	MP L3 M

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2.2.1	✓RT ✓RT N1, N2 and N12 ✓RT	1RT for N1 1RT for N2 1RT for N12 (3)	MP L1 E
2.2.2	National road connects major cities across provinces. ✓O Regional roads connect smaller towns within a province. ✓O	1O correct explanation 1O correct explanation (2)	MP L1 E
2.2.3	Town = Mossel Bay ✓RT Distance = 394 km ✓RT	1RT for Mossel Bay 1RT for 394 km (2)	MP L2 E
2.2.4	✓MCA Distance = (701 km - 394 km) + 22 km ✓MA = 329 km ✓CA	**CA from 2.2.3** 1MCA subtracting 394km 1MA adding 22 km 1CA correct answer (3)	MP L2 E
2.2.5	✓MA Total distance = (779km × 2) + 22 km + 22 km ✓MA = 1 602km Statement is valid ✓O **OR** ✓MA ✓MA Total distance = 701km + (22km x 2) + 78km + 779km = 1 602km Statement is valid ✓O	1MA multiplying by 2 1MA adding 44 km 1O conclusion **OR** 1MA multiplying by 2 1MA adding correct distances 1O conclusion (3)	MP L4 M
		[25]	

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QUESTION 3 [28 MARKS]

Q	Solution	Explanation	T&L
3.1.1	Number of people = 8×24 ✓MA = 192 ✓A	1MA multiplying by 24 1A correct answer (2)	M L1 E
3.1.2	✓MA ✓MA Width = $(3 \times 2{,}44) + 2$m = 9,32m✓CA ✓MA ✓MA Length = $(8 \times 1{,}22) + 7$m = 16,76m✓CA	1MA multiplying by 3 1MA adding 2m 1CA answer 1MA multiplying by 8 1MA adding 7m 1CA answer (6)	M L2 M
3.1.3	Perimeter = 2 (16,76 m + 9,32m) ✓SF =52,16m✓CA	**CA from 3.1.2** 1SF substitution 1CA correct answer (2)	M L2 E
3.1.4	Probability = $\frac{180\checkmark A}{192\ \checkmark CA} \times 100\%$ = 93,75%✓CA	**CA from 3.1.1** 1A for Numerator 1CA for Denominator 1CA answer (3)	P L2 E
3.1.5	Probability = $\frac{1\checkmark A}{7\ \checkmark A}$ = 0,14✓R	1A for Numerator 1A for Denominator 1R Rounding (3)	P L2 E
3.2.1	Diameter = (80 cm × $\frac{120}{100}$) ✓MA = 96 cm✓A Radius = 96 ÷ 2✓MA = 48cm✓CA **OR** Radius = 80 cm ÷ 2✓MA = 40 cm✓A = 40 × $\frac{120}{100}$✓MA = 48cm✓CA	1MA multiplying by 120 and dividing by 100. 1A correct answer 1MA dividing by 2 1CA correct answer **OR** 1MA dividing by 2 1A correct answer 1MA multiplying by 120 and dividing by 100 1CA correct answer (4)	M L2 M

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Q	Solution	Explanation	T&L
3.2.2		**CA from 3.2.1**	M
	Convert to m = 48 ÷ 100✓C = 0,48m✓CA	1C dividing by 100 1CA correct answer	L2 M
	Area = (3,142 × $0,48^2$) ✓SF = 0,72m^2✓CA	1SF substitution 1CA correct answer	
	OR	**OR**	
	Area = (3,142 × 48^2) ✓SF = 7 239,168cm^2✓CA	1SF substitution 1CA correct answer	
	Convert to m^2 = 7 239,168cm^2 ÷ 100^2✓C = 0,72 m^2✓CA	1C dividing by 10 000 1CA correct answer (4)	
3.2.3	Height of leg = 74,5cm × $\frac{120}{100}$ ✓MA = 89,4 cm✓A	1MA percentage increase concept 1A correct answer	M L3 M
	Number of lengths per 1,5m = 1,5m – 0,894m ✓C = 0,606m	1C Conversion	
	Therefore, number of 1,5m lengths required = 4 ✓A	1A correct answer	
	OR	**OR**	
	Height of leg = (74,5cm × $\frac{20}{100}$) + 74,5cm ✓MA = 89,4 cm✓A	1MA percentage increase concept 1A correct answer	
	Number of lengths per 1,5m = 1,5m – 0,894m ✓C = 0,606m	1C Conversion	
	Therefore, number of 1,5m lengths required = 4 ✓A	1A correct answer	
	OR	**OR**	
	Height of leg = 74,5cm × $\frac{120}{100}$ ✓MA = 89,4 cm✓A	1MA percentage increase concept 1A correct answer	
	Number of lengths per 1,5m = 1,5m ÷ 0,894m ✓C = 1,67785m	1C Conversion	
	Therefore, number of 1,5m lengths required = 4 ✓A	1A correct answer (4)	
		[28]	

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QUESTION 4 [26 MARKS]			
Q	**Solution**	**Explanation**	**T &L**
4.1.1	✓MA ✓SF SA = (36cm ×22cm) + 2 (36cm × 26cm) + 2 (22cm ×26cm) = 3808 cm² ✓CA	1MA multiplying 36 by 22 1SF correct substitution 1CA correct answer (3)	M L2 M
4.1.2	Length of Glass =3 210 ÷1000✓C = 3,210m✓A Width Of Glass = 2 250 ÷ 1000 = 2,25m ✓C ✓C Thickness of the Glass = (0,236×2,54) ÷ 100 = 0,0059944 m Weight (in kg) = 3,210 × 2,25 × 0,0059944 × 2500✓SF =108,24 kg ✓CA	1C dividing by 1000 1A correct answer 1C multiplying by 2,54 1C dividing by 100 1SF substitution 1CA correct answer (6)	M L3 M
4.1.3	Length of Glass = 3 210 ÷ 10 = 321 cm ✓C Width of glass = 2 250 ÷ 10 = 225 cm Area of the glass = 321cm × 225 cm ✓SF = 72 225cm² Number of tanks = 72 225 cm² ÷ 3 808 cm²✓MCA = 18,97 =18 ✓RCA The statement is VALID✓O **OR** Area of the glass = 3210mm × 2250mm ✓SF = 7 222 500mm² ÷10²✓C Number of tanks = 72 225 cm² ÷ 3 808 cm²✓MCA = 18,97 =18 ✓RCA The statement is VALID✓O	**CA from 4.1.1** 1C conversion to cm 1SF correct substitution 1MCA for diving by 3 808 1RCA rounding 1O conclusion **OR** 1SF correct substitution 1C conversion to cm² 1MCA for diving by 3 808 1RCA rounding 1O conclusion (5)	M L4 M

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4.2.1	Volume is the space the 3D planter box takes up✓O Capacity is amount of soil the planter box can hold✓O	1O correct explanation 1O correct explanation (2)	M L1 E
4.2.2	500 litres = 500 000cm^3✓C ✓C 500 000cm^3 = 120 × 250 × height ✓SF Height $= \frac{500\,000}{120 \times 250}$ ✓MA =16,67cm ✓CA Claim is incorrect ✓O	1C convert to cm^3 1C correct conversion both dimensions to cm 1SF correct substitution 1MA changing the subject of the formula 1CA correct answer 1O conclusion (6)	M L4 D
4.2.3	Number of tons = 500 ÷ 750 ✓MA = 0,66667 ✓A Number of kilograms = 0,6667× 1000 ✓C = 666,67✓CA **OR** 1 000kg = 750 ℓ ✓C ? kg = 500 ℓ ✓C ? kg $= \frac{500\ X\ 1\ 000}{750}$ ✓MA = 666,67 kg ✓CA	1MA dividing by 750 1A correct answer 1C conversion to kg 1CA correct answer **OR** 1C conversion factor 1C conversion to kg 1MA dividing by 750 1CA correct answer NPR (4)	M L2 M
		[26]	
		TOTAL MARKS 100	

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