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**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

**SA EXAM PAPERS**These marking guidelines consists of 8 pages
Proudly South African

**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 = $R92\,335 \times 27 \times 2$ ✓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	1 unit 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 = $1\,397 \times 100\,000$ ✓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 = $1\,397\text{ km} \div 700\text{ km}$ ✓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 = $30 \times 30,48$ ✓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





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]	





QUESTION 3 [28 MARKS]			
Q	Solution	Explanation	T&L
3.1.1	$\text{Number of people} = 8 \times 24 \checkmark \text{MA}$ $= 192 \checkmark \text{A}$	1MA multiplying by 24 1A correct answer (2)	M L1 E
3.1.2	$\text{Width} = (3 \times 2,44) + 2\text{m}$ $= 9,32\text{m} \checkmark \text{CA}$ $\text{Length} = (8 \times 1,22) + 7\text{m}$ $= 16,76\text{m} \checkmark \text{CA}$	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	$\text{Perimeter} = 2 (16,76 \text{ m} + 9,32\text{m}) \checkmark \text{SF}$ $= 52,16\text{m} \checkmark \text{CA}$	CA from 3.1.2 1SF substitution 1CA correct answer (2)	M L2 E
3.1.4	$\text{Probability} = \frac{180 \checkmark \text{A}}{192 \checkmark \text{CA}} \times 100\%$ $= 93,75\% \checkmark \text{CA}$	CA from 3.1.1 1A for Numerator 1CA for Denominator 1CA answer (3)	P L2 E
3.1.5	$\text{Probability} = \frac{1 \checkmark \text{A}}{7 \checkmark \text{A}}$ $= 0,14 \checkmark \text{R}$	1A for Numerator 1A for Denominator 1R Rounding (3)	P L2 E
3.2.1	$\text{Diameter} = (80 \text{ cm} \times \frac{120}{100}) \checkmark \text{MA}$ $= 96 \text{ cm} \checkmark \text{A}$ $\text{Radius} = 96 \div 2 \checkmark \text{MA}$ $= 48\text{cm} \checkmark \text{CA}$ OR $\text{Radius} = 80 \text{ cm} \div 2 \checkmark \text{MA}$ $= 40 \text{ cm} \checkmark \text{A}$ $= 40 \times \frac{120}{100} \checkmark \text{MA}$ $= 48\text{cm} \checkmark \text{CA}$	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





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





QUESTION 4 [26 MARKS]			
Q	Solution	Explanation	T & L
4.1.1	$\begin{aligned} &\checkmark\text{MA} && \checkmark\text{SF} \\ \text{SA} &= (36\text{cm} \times 22\text{cm}) + 2(36\text{cm} \times 26\text{cm}) + 2(22\text{cm} \times 26\text{cm}) \\ &= 3808 \text{ cm}^2 \checkmark\text{CA} \end{aligned}$	1MA multiplying 36 by 22 1SF correct substitution 1CA correct answer (3)	M L2 M
4.1.2	$\begin{aligned} \text{Length of Glass} &= 3\,210 \div 1000 \checkmark\text{C} \\ &= 3,210\text{m} \checkmark\text{A} \\ \text{Width Of Glass} &= 2\,250 \div 1000 \\ &= 2,25\text{m} \\ \text{Thickness of the Glass} &= (0,236 \times 2,54) \div 100 \\ &= 0,0059944 \text{ m} \\ \text{Weight (in kg)} &= 3,210 \times 2,25 \times 0,0059944 \times 2500 \checkmark\text{SF} \\ &= 108,24 \text{ kg} \checkmark\text{CA} \end{aligned}$	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	$\begin{aligned} \text{Length of Glass} &= 3\,210 \div 10 \\ &= 321 \text{ cm} \checkmark\text{C} \\ \text{Width of glass} &= 2\,250 \div 10 \\ &= 225 \text{ cm} \\ \text{Area of the glass} &= 321\text{cm} \times 225 \text{ cm} \checkmark\text{SF} \\ &= 72\,225\text{cm}^2 \\ \text{Number of tanks} &= 72\,225 \text{ cm}^2 \div 3\,808 \text{ cm}^2 \checkmark\text{MCA} \\ &= 18,97 \\ &= 18 \checkmark\text{RCA} \\ \text{The statement is VALID} \checkmark\text{O} \\ &\text{OR} \\ \text{Area of the glass} &= 3210\text{mm} \times 2250\text{mm} \checkmark\text{SF} \\ &= 7\,222\,500\text{mm}^2 \div 10^2 \checkmark\text{C} \\ \text{Number of tanks} &= 72\,225 \text{ cm}^2 \div 3\,808 \text{ cm}^2 \checkmark\text{MCA} \\ &= 18,97 \\ &= 18 \checkmark\text{RCA} \\ \text{The statement is VALID} \checkmark\text{O} \end{aligned}$	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 cm ² 1MCA for diving by 3 808 1RCA rounding 1O conclusion (5)	M L4 M



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 000cm³ ✓C ✓C 500 000cm³ = 120 × 250 × height ✓SF Height = $\frac{500\,000}{120 \times 250}$ ✓MA = 16,67cm ✓CA Claim is incorrect ✓O	1C convert to cm³ 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 = $\frac{500 \times 1\,000}{750}$ ✓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			

