



LIMPOPO

PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF EDUCATION

GRADE 12

MATHEMATICAL LITERACY

AUGUST 2026

MARKING GUIDELINES

MARKS/PUNTE: 100

Symbol/Kode	Explanation/Verduideliking
M	Method/Metode
MA	Method with accuracy/Metode met akkuraatheid
MCA	Method with consistent accuracy/Metode met volgehoue 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 tabel/grafiek/dokument/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./Penalisasie, bv. vir geen eenhede, verkeerde afronding, ens.
NPR	No penalty for correct rounding/Geen penalisasie vir korrekte afronding nie
NPU	No penalty for omitting unit, but wrong unit is penalised/Geen penalisasie indien die eenheid uitgelos is, maar wel indien 'n verkeerde eenheid gebruik word.
AO	Answer only/Slegs antwoord

These marking guidelines consist of 07 pages. Hierdie nasienriglyne bestaan uit 07 bladsye

QUESTION 1		ANSWER ONLY FULL MARKS		25 MARKS
Q	Answer		Explanation	T & L
1.1				
	1.1.1	C ✓✓A	2A correct answer (2)	F L2
	1.1.2	E ✓✓A	2A correct answer (2)	M L1
	1.1.3	I ✓✓A	2A correct answer (2)	F L1
	1.1.4	B ✓✓A	2A correct answer (2)	M L1
	1.1.5	G ✓✓A	2A correct answer (2)	M L1
1.2				
	1.2.1	Minimum amount per player ✓RT = 135 000 × R16,15 ✓MA = R2 180 250 ✓A	1RT for 135 000 1MA multiplying by R16,15 1A correct answer (3)	F L1
	1.2.2	135 000: 140 000 ✓RT ✓M = 1: 1,037 ✓A	1RT both values 1M correct order 1A correct answer (3)	F L2
1.3				
	1.3.1	Investment amount = $\frac{2}{3} \times R2\ 261\ 000$ ✓MA = R1 507 333,33 ✓CA Year 1 R1 507 333,33 + (8,75% × R1 507 333,33) ✓MCA = R1 507 333,33 + R128 123,33 = R1 635 456,66 ✓CA Year 2 R1 635 456,66 + (9% × R1 635 456,66) ✓MCA = R1 635 456,66 + R147 191,10 = R1 782 647,76 ✓CA Year 3 ✓MA R1 782 647,76 + (4,5% × R1 782 647,76) ✓MCA = R1 782 647,76 + R80 219,15 = R1 862 866,91 ✓CA	1MA multiplying by two-third 1CA correct answer 1MCA for interest calculation 1CA for balance after year 1 1MCA for interest calculation 1CA for balance after year 2 1MA calculating a percentage of half year 1MCA for interest calculation 1CA for balance after year 3 (9)	F L3
			[25]	

QUESTION 2		ANSWER ONLY FULL MARKS		20 MARKS
Q		Answer	Explanation	T & L
	2.1	Diameter = 9,15 yards + 9,15 yards ✓MA = 18,30 yards ✓CA	1MA adding correct values 1CA correct answer (2)	M L1
	2.2	Length = $115 \times 36 \times 2,54$ ✓MA = 10 515,60 cm = $10\,515,60 \div 100$ = 105,16 m ✓CA Width = $74 \times 36 \times 2,54$ = 6 766,56 cm = $6\,766,56 \div 100$ ✓C = 67,67 m ✓CA	1MA multiplying correct values 1CA correct answer 1C conversion 1CA correct answer (4)	M L2
	2.3	Length = 105,16 m + 2 m = 107,16 m ✓CA Width = 67,67 m + 2 m = 69,67 m ✓CA Area = $l \times b$ = $107,16\text{ m} \times 69,67\text{ m}$ ✓SF = $7\,465,84\text{ m}^2$ ✓CA	CA from 2.2 1CA correct answer 1CA correct answer 1SF correct substitution 1CA correct answer (4)	M L2
	2.4	Dimensions of grass blocks: Length = $\frac{600}{1\,000}$ ✓C = 0,6 m ✓CA Width = $\frac{400}{1\,000}$ = 0,6 m ✓CA Packaging:	CA from 2.2 1C for conversion 1CA for correct answer 1CA for correct answer	M L4

		Option 1: Length to Length: Along the length = $\frac{107,16}{0,6}$ ✓MCA = 175,6 ≈ 176 blocks ✓CA Along the width = $\frac{69,67}{0,4}$ = 174,18 ≈ 175 blocks ✓CA Number of blocks = 176×175 ✓MCA = 30 800 Total costs = $30\,800 \times R8,50$ ✓MCA = R261 800 ✓CA $R261\,800 < R266\,526$ The claim is INVALID ✓O	1MCA dividing correct values 1CA correct answer 1CA correct answer 1MCA multiplying correct values 1MCA multiplying by R8,50 1O opinion (10)	
			[20]	

QUESTION 3		ANSWER ONLY FULL MARKS		26 MARKS	
Q	Answer		Explanation	Marks	
3.1	3.1.1	Distance = $21 \times 1\,000$ ✓C = 21 000 m ✓A	1C conversion 1A correct answer (2)	M&P L1	
	3.1.2	9pm OR 9:00pm ✓✓A	2A correct answer (2)	M&P L1	
	3.1.3	Difference = $21 : 00 - 12 : 00$ ✓MA = 9 hours ✓A	1MA subtracting correct values 1A correct answer (2)	M&P L1	
	3.1.4	Time = $\frac{\text{distance}}{\text{speed}}$ = $\frac{21}{60}$ ✓SF = 35 minutes ✓CA Arrival time = $10:35 + 00:35$ ✓MCA = 11:10 ✓✓C They will not make it in time. ✓O	 1SF correct substitution 1CA correct answer 1MCA adding 35 minutes 2C hours & minutes 1O opinion (6)	M&P L3	
3.2	3.2.1	12 cm ✓✓RT	2RT (2)	M&P L1	
	3.2.2	Bar Scale /Ratio Scale ✓✓RT	2RT (2)	M&P L1	
	3.2.3	Actual distance = $12 \times 40\,000\,000$ ✓MCA = 480 000 000 cm ✓CA = $\frac{480\,000\,000}{1\,000\,000}$ ✓C = 480 km ✓S	CA from 3.2.1 1MCA multiplying correct values 1CA correct answer 1C conversion 1S simplification (4)	M&P L3	
	3.2.4	✓RT $\frac{6.5 \times 480}{100}$ ✓MCA = 31,2 l ✓S Difference = $45l - 31,2l$ ✓MA = 13,8l ✓CA Claim is not valid. ✓O	CA from 3.2.3 1RT 6,5 per 100 km 1MCA 480 1S simplification 1MA subtracting correct values 1CA correct answer 1O opinion (6)	M&P L4	
			[26]		

QUESTION 4			ANSWER ONLY FULL MARKS	29 MARKS
4.1	4.1.1	4 ✓✓A	2A correct answer (2)	M L1
	4.1.2	4 ✓✓A	2A correct answer (2)	M L1
	4.1.3	Hex Wrench ✓✓A	2A correct answer (2)	M L1
4.2	4.2.1	S.E/ South East ✓✓A	2A correct answer (2)	M L1
	4.2.2	P(a room with right-handed doors) $= \frac{5}{9} \checkmark A \checkmark A \times 100\%$ $= 55,555556\%$ $= 56\% \checkmark CA$	1A numerator 1A denominator 1CA correct answer (3) NPR	P L2
	4.2.3	To keep the players fit. ✓✓O	2O opinion (2)	M L4
	4.2.4	Go out of the reception ✓A Turn left and enter the dinning through the double door. ✓A Walk North East and enter the gym. ✓A Keep right and turn right. ✓A Enter the entertainment area. ✓A	5A correct answer (5)	M&P L2
4.3	4.3.1	$\frac{591 \text{ ml}}{1\,000} \checkmark C$ $= 0,591 \text{ l } \checkmark CA$	1C conversion 1CA correct answer (2)	M L1
	4.3.2	Cost of one bottle $= \frac{R1\,430,60}{24} \checkmark MA$ $= R59,61 \checkmark CA$ $\approx R60,00 \checkmark R$	1MA dividing by correct values 1CA correct answer 1R rounding (3)	F L2

4.3.3	$\text{Diameter} = \frac{6}{2} \text{ cm}$ $= 3 \text{ cm} \quad \checkmark \text{A}$ $V = \pi \times r^2 \times h$ $= 3,142 \times (3 \text{ cm})^2 \times 17,7 \text{ cm} \quad \checkmark \text{SF}$ $= 500,5206 \text{ cm}^3$ $= 501 \text{ cm}^3 \quad \checkmark \text{CA}$ Capacity of the bottle = $591 \text{ cm}^3 \quad \checkmark \text{C}$ Volume of the empty space = $591 \text{ cm}^3 - 501 \text{ cm}^3 \quad \checkmark \text{MA}$ $= 90 \text{ cm}^3 \quad \checkmark \text{CA}$	1A correct radius 1SF correct substitution 1CA correct answer 1C conversion 1MA correct difference 1CA correct answer (6)	M L3
TOTAL 100 MARKS			