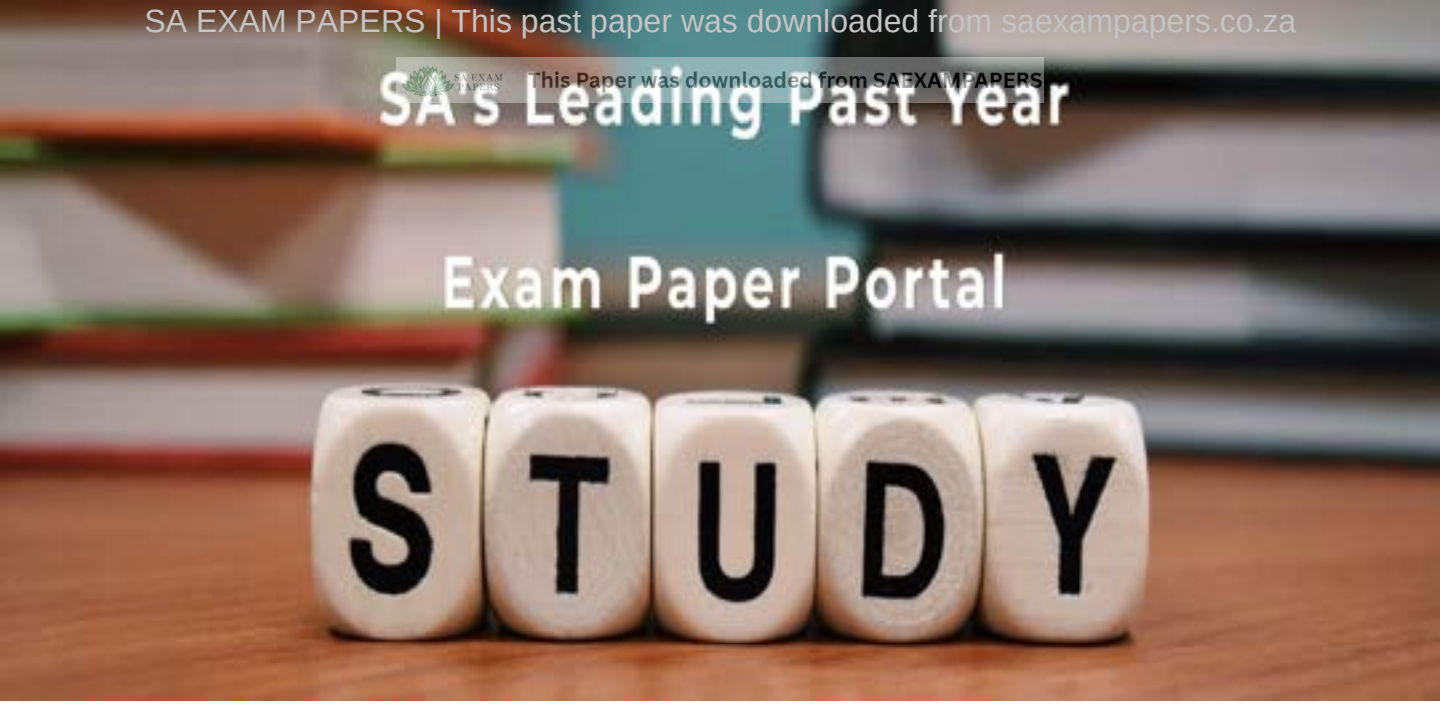

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
EDUCATION

NATIONAL SENIOR CERTIFICATE

GRADE 12

MATHEMATICAL LITERACY PAPER 1

MARKING GUIDELINES

MAY/JUNE 2026

MARKS : 100

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

This marking guidelines consist of 10 pages

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.
- 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.
- General principle of marking, if the candidate makes one mistake he loses one mark.
- A conclusion mark can only be given if relevant calculations precedes it

QUESTION 1 [20 MARKS ANSWER ONLY FULL MARKS]			
Q/V	**Solution**	**Explanation**	**T&L**
1.1.1	Government Employees Pension Fund ✓✓A	2A correct acronym in full (2)	F L1 E
1.1.2	Net salary is the final amount of money that Karabo received in her bank account after all deductions were made at the end of the month ✓✓A	2A correct definition (2)	F L1 E
1.1.3	Deductions(A) = Gross Salary – Net Salary = R 65 900 – R 30 500 ✓MA = R 35 400 ✓A **OR** Deductions(A) = R 14 622 + R 4 215 + R3 313 + R12 500 + R 750 ✓MA = R 35 400 ✓A	1MA subtracting correct values 1A correct answer **OR** 1MA adding correct values 1A correct answer (2)	F L1 E
1.1.4	✓RT ✓RT Transport allowance : Net salary = 4 450 : 30 500 = 1 : 6,854 ✓A	2RT 4 450 and 30 500 1A simplification (3)	F L1 E
1.1.5.	✓RT Karabo's tax as a percentage = $\frac{R\ 14\ 612}{R\ 56\ 200} \times 100\%$ ✓MA = 26,01779359% ≈ 26% ✓R	1RT both numerator & denominator 1MA percentage concept 1R correct answer (3)	F L1 M
1.2.1	Burundu ✓✓A	2A correct country (2)	D L1 E
1.2.2	Survey ✓✓A OR Questionnaires OR Quizzes OR Google form	2A correct method (2)	D L1 E
1.2.3	✓RT ✓MA 95,0 ; 94,0 ; 93,0 ; 90,0 ; 89,0 ; 87,0 ; 87,0 ; 85,0 ; 84,0 ; 82,0	1RT all correct values 1MA correct order (2)	D L1 E
1.2.4	Zero ✓✓A OR 0% OR Impossible	2A correct probability (2)	P L1 E
		[20]	

QUESTION 2 [28 MARKS]			
Q/V	**Solution**	**Explanation**	**T&L**
2.1.1 (a)	Total monthly amount = R 613,95 + R69,00 + R45,00 ✓MA = R727,95 ✓ CA	1MA adding correct values 1CA simplification AO (2)	F L1
(b)	Total amount paid = R613,95 × 48 months ✓MA = R29 469,60 ✓ CA Total interest paid = R29 469.60 – R20 000,00 ✓MCA = R9 469,60 ✓CA	1MA multiply correct values 1CA Simplification 1MCA subtracting correct values 1 CA correct answer (4)	F L2
2.1.2	Interest for year 1 = R17 000,00 × 5,7% ✓MA = R969,00 ✓ CA Amount at the end of year 1 = R17 000,00 + RR969,00 = R17 969,00✓CA Interest for year 2 = R17 969,00 × 6,9 % ✓MCA = R1 239,86 Amount at the end of year 2 = R17 969,00 + R1 239,86 = R19 208,86 ✓CA Her statement is correct. ✓O OR Amount at the end of the year 2: ✓M ✓MA ✓MA =R17 000,00 × 105,7% × 106,9% ✓M = R19 208,86 ✓ CA Her statement is correct ✓O	1MA calculating % 1CA simplification 1CA simplification 1MCA calculating % 1CA simplification 1O conclusion OR 1M calculating % 1MA 1st year adding % 1MA 2nd year adding % 1M compound calculation 1CA simplification 1O conclusion (6)	F L4
2.2.			
2.2.1	✓RT ✓MA Accommodation = R1 950,00 × 5 nights = R 9 750,00	1RT R 1 950 1MA multiply by 5 AO (2)	F L1
2.2.2	Amount spent on breakfast = R90,00 × 5 × 5 days ✓MA = R 2 250,00 Amount spent on lunch = R120,00 × 5 ×4 days ✓M = R 2 400,00 Amount spent on supper = R150,00 × 5 × 5 days ✓M = R 3 750,00 Total amount spent on meal: = R2 250,00 + R2 400,00 + R3 750,00 ✓MCA = R8 400,00 ✓CA OR Total amount spent on meals: ✓MA ✓MA ✓MA =(R90,00 × 5 × 5) + (R120,00 × 5 × 4) + (R150,00 × 5 × 5 = R2 250,00 + R2 400,00 + R3 750,00 ✓MCA = R8 400,00 ✓CA	1MA multiply correct values 1MA multiply by 4 days 1MA multiply correct values 1MCA adding correct values 1CA simplification OR 3MA multiply correct values 1MCA adding correct values 1CA simplification 5)	F L3

2.2.3	Total conservation fee: ✓M ✓M = ($ 27 × 2 × 6 day) + ($ 14 × 3 × 6 days) = ($ 324 + $ 252) = $ 576✓CA Amount in pounds = $ 576 × £ 0,7456698/ $1 ✓MA = £ 429,51 ✓CA OR Amount in pounds = $576 ÷ $ 1.3410762/£1 ✓MA = £429,51 ✓CA Amount in rand = £429,51 × R 20,303941/ £1 = R8 720,75 ✓CA OR Amount in rand = £429,51 ÷ £0,049251523/R1 = R8 720,75 ✓CA Total cost for the trip: = R8 720,75 + R9 750,00 + R8 400,00 + R85 825,00 + R 2 500,00 = R115 195,75 ✓CA His statement is NOT VALID ✓O	**CA from 2.2.1 and 2.2.2** 1M multiply correct values 1M multiply correct values 1CA simplification 1M multiply by 0,7456698 1CA pound amount OR 1MA divide by 1,3410762 1CA simplification 1CA amount in rand OR 1MCA adding correct values 1CA simplification 1O conclusion (9)	F L4
		[28]	

QUESTION 3 [24 MARKS]			
Q/*V*	**Solution**	**Explanation**	**T&L**
3.1.1	Total value ✓RT = 18,4 + 5,6 + 0,5 + 2,9 + 9,5 + 3,1 + 33,1 + 5,7 + 4,7 ✓MA = 83,5 **OR/*OF*** Total value ✓RT = 1 199,5 – 1 116 ✓MA = 83,5	 1RT correct values 1MA adding **OR/*OF*** 1RT both correct values 1MA subtracting (2)	D L1 E
3.1.2	The table value is given in ten thousands. ✓✓O **OR/*OF*** Rounding issues ✓✓O	2O difference in table values from actual values **OR/*OF*** 2O rounding (2)	D L4 M

3.1.3	Number of people ✓RT = 365,9 × 10 000 = 3 659 000 **OR/*OF*** 365,9 ten thousand ✓A	1RT reading from table 1A correct value (2)	D L1 E
3.1.4	Medical sector e.g. doctor/ nurse Security sector e.g. police / security guards Essential services e.g. cashier Construction sector e.g. plumbing / electrician / builder Agricultural sector e.g. farming ✓✓A	2A correct job (2)	D L1 E
3.1.5	Mean = $\frac{21,7 + 7,2 + 0,5 + 3,2 + 9,4 + 2,4 + 36,6 + 5,8 + 6,3}{9}$ ✓RT = $\frac{93,1}{9}$ ✓ MA OR $\frac{1\,186,1 - 1\,075}{9} = \frac{93,1}{9}$ = 10,344444444 = 10,344444444 × 10 000 = 103 444,4444 ≈ 103 444 OR 103 445 ✓CA Mean in ten thousand	1RT adding correct values 1MA concept of mean 1CA correct mean **NPR** (3)	D L2 M
3.2.1	OR Tambo Inland ✓✓RT	2RT correct district (2)	D L1 E
3.2.2	✓RT 1425 = (655 + 1254 +972 +768 + 551 + 1775 + 2439 + 1872 + 444 + 2700 + M + 2878) ÷12✓ MA 1 425 = $\frac{16\,308 + M}{12}$ ✓SF 16 308 + M = 17 100 ✓ MA M = 17 100 – 16308 ✓ M = 792 ✓CA	1RT correct values 1MA dividing by 12 1SF substitution 1MA simplification dig 1M correct method 1CA correct answer (6)	F L3 M
3.2.3	✓RT Total number of candidates = $\frac{1953}{3,01073\%}$ ✓ MA = 64 867,98883 ✓CA = 64 868 ✓R	1RT correct value 1MA concept of % decrease 1CA Simplification 1R correct rounding (4)	F L2 M
		[23]	

QUESTION 4 [28 MARKS]			
Q/V	**Solution**	**Explanation**	**T&L**
4.1.1	Tax Payable (before rebates) = R115 762 + [36% × (annual taxable income – R 488 700)] ✓SF = R 115 762 + [$\frac{36}{100}$ × (R 495 602 – R 488 700)] = R115 762 + R 2 484,72 ✓ MA = R118 246,72 ✓CA	**AO** 1SF substituting value 1MA adding values 1CA simplification (3)	F L2 E
4.1.2 (a)	Monthly tax (before rebate) = R118 246,72 ÷ 12 ✓MA = R9 853,89 ✓CA After rebate ✓MA = R9 853,89 – R1 368,75 = R8 485,14 ✓MCA Monthly taxable income = R495 602 ÷ 12 = R41 300,17 ✓A Tax payable (according to table) = R8 491 ✓ RT He is incorrect ✓O **OR/*OF*** Annual rebate = R1 368,75 × 12 ✓MA = R16 425 ✓A Annual tax (after rebate) = R118 246,72 – R16 425 = R101 821,72 ✓A Monthly income R495 602 ÷ 12 ✓ = R41 300,17 ✓A Annual tax = R8 491 × 12 = R101 892 ✓MCA He is incorrect. ✓O	**CA from Question 4.1.1** 1MA dividing by 12 1CA monthly tax 1MA subtracting rebate 1MCA finding tax after rebate 1A monthly income 1RT correct tax payable 1O conclusion **OR/*OF*** 1MA multiplying by 12 1A correct annual rebate 1A annual tax 1MA dividing annual income by 12 1A monthly income 1MCA annual tax 1O conclusion	F L4 D

	OR/*OF*	**OR/*OF***	
	Monthly tax before rebate = R118 246,72 ÷ 12 ✓MA = R9 853,89 ✓A Monthly taxable income = R495 602 ÷ 12 ✓ = R41 300,17 ✓A Before rebate = R8 491 + R1 368,75 ✓MA = R9 859,75 ✓MCA He is incorrect . ✓O	1MA dividing by 12 1A correct answer 1MA dividing annual income by 12 1A correct answer 1MA adding rebate 1MCA finding tax after rebate 1O conclusion (7)	
4.1.2 (b)	Tax payable for six months ✓RT = R 7 760 × 6 ✓MA = R 46 560 ✓CA	1RT R 7 7650 1MA multiplying by 6 1CA simplification (3)	F L2 M
4.2.1	Two million five hundred and eighty four thousand one hundred and seventy six. ✓✓A	2A correct words (2)	D L1 E
4.2.2	✓RT 407 739 : 61 934 : 36 085 ✓MA	1RT correct values 1MA correct order (2)	F L2 M
4.2.3	16 426; 18 235; **19 077**; 21 887; 36 085 ✓A Median = 19 077 ✓A	**AO** 1A arranging values 1A correct median (2)	D L2 E
4.2.4	Number of Ford F-Series ✓MA ✓RT = 357 243 – (53 757 + 51 684 + 73 467 + 61 934) = 357 243 – 240 842 = 116 401 ✓CA	**AO** 1RT correct values from graph 1MA subtracting from total 1CA simplification (3)	D L2 E

4.2.5	Interquartile range ✓A IQR = Q3 – Q1 ✓SF 7 669 = Q3 – 11 408 ✓MA Q3 = 7 669 + 11 408 = 19 077 ✓CA	**AO** 1A correct formula 1SF substituting into formula 1MA changing the subject of the formula 1CA simplification (4)	D L3 M
4.2.6	Probability ✓RT $\frac{569\,388}{2\,584\,176}$ × 100% ✓RT = 22,03363858% ≈ 22,03% ✓CA	 1RT correct numerator 1RT correct denominator 1CA simplification **NPR** (3)	P L2 M
		[29]	
TOTAL MARKS [100]			