LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
EDUCATION

NATIONAL SENIOR CERTIFICATE

GRADE 12

PROVINCIAL PREPARATORY EXAMINATION

MATHEMATICAL LITERACY P1

REVISED MARKING GUIDELINES

SEPTEMBER 2025

MARKS: 150

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 guideline consists of 13 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.

NB: There are extra or alternative solutions for the following sub-questions at the end of the marking guidelines
2.2.3
2.2.4.
4.1.2.

QUESTION 1 [26 MARKS]		**ANSWER ONLY FULL MARKS**	
Q	**Solution**	**Explanation**	**T&L**
1.1.1	Value Added Tax ✓✓**A**	2A correct acronym (2)	F L1
1.1.2	Discount price = R80 ÷ 4 ✓**MA** = R20 ✓**A** **OR** Discount price = R20 × 4 ✓**MA** = R80 ✓**A**	1MA dividing correct values 1A simplification (2)	F L1
1.1.3	Number of Combo's = R400 ÷ R80 ✓**MA** = 5 ✓**A**	1MA dividing correct values 1A simplification (2)	F L1
1.1.4	P(selecting a Chilly Cheese flavoured packet of Tennis Biscuits) = 0 ✓✓**A** **OR** Impossible ✓✓**A**	2A correct probability (2)	P L1
1.1.5	Total price = R21,99 + R16,99 ✓**MA** = R38,98 ✓**A**	1MA adding correct values 1A simplification (2)	F L1

1.1.6	Total amount = R16,99 × 5 ✓**MA** = R84,95 ✓**A** **OR** Total amount = R 16,99 + R 16,99 + R 16,99 + R 16,99 + R 16,99 ✓**MA** = R84,95 ✓**A**	1MA multiplying correct values 1A simplification OR 1MA adding correct values 1A simplification (2)	F L1
1.1.7	Total price = R80 + R90 ✓**MA** = R170 ✓**A**	1MA adding correct values 1A simplification (2)	F L1
1.2			
1.2.1	Categorical data ✓✓**A**	2A correct classification (2)	D L1
1.2.2	✓**RT** Three hundred and ten million two hundred and thirty-five thousand rand. ✓**A**	1RT correct amount from table 1A amount in words (2)	F L1
1.2.3	A deficit is when the total current expenses is more than the total current income ✓✓**A** **OR** A deficit is when the total current income is less than the total current expenses ✓✓**A**	2A correct explanation (2)	F L1
1.2.4	C OR Certain ✓✓**A**	2A correct probability (2)	P L1
1.2.5	Surplus = R 377 194 000 – R 340 861 000 ✓**MA** = R 36 333 000 ✓**A** **OR** Surplus = (R 377,194 – R 340,861) million ✓**MA** = R 36,333 million ✓**A**	1MA subtracting correct values 1A simplification (2)	F L1
1.2.6	2021-2022 ✓✓**A**	**CA from Question 1.2.5.** 2A correct year (2)	D L1
		[26]	

QUESTION 2 [36 MARKS]			
Q	**Solution**	**Explanation**	**T&L**
2.1.1	Cost VAT excluded ✓**SF** ✓**RT** = (6kl × R0) + (4kl × R22,26) + (4kl × R23,23) ✓**MA** = R181,96 ✓**CA** Cost VAT included = R181,96 × $\frac{115}{100}$ ✓**MCA** = R209,25 ✓**CA** Total cost = R209,25 + R31,08 ✓**MA** = R240,33 ✓**CA** **OR** Cost VAT excluded ✓**SF** ✓**RT** = (6kl × R0) + (4kl × R22,26) + (4kl × R23,23) ✓**MA** = R181,96 ✓**CA** Cost VAT included = R181,96 × $\frac{15}{100}$ ✓**MCA** = R27,29 Cost VAT included = R181,96 + R27,29 = R209,25 ✓**CA** Total cost = R209,25 + R31,08 ✓**MA** = R240,33 ✓**CA**	1SF correct distribution of kls 1RT correct tariffs 1MA adding values 1CA simplification 1MCA multiplying by $\frac{115}{100}$ 1CA simplification 1MA adding the fixed levy 1CA simplification **OR** 1SF correct distribution of kls 1RT correct tariffs 1MA adding values 1CA simplification 1MCA multiplying by $\frac{15}{100}$ 1CA simplification 1MA adding the fixed levy 1CA simplification (8)	F L3

2.1.2	Percentage $=\frac{R31,08}{R240,33}$ × 100% ✓A✓A = 12,93222% = 12,9% ✓CA	**CA from Question 2.1.1** 1A numerator 1A denominator 1CA simplification NPR (3)	F L2
2.2.1	Months = 10 years/jaar × 12 ✓MA = 120 months/maande ✓CA	1MA multiplying correct values 1A simplification AO (2)	F L1
2.2.2	Rate per month $\frac{10,75\%}{12}$ ✓MA = 0,8958% ✓CA = 0,9% ✓R	1MA dividing by 12 1CA simplification 1R to one decimal place (3)	F L2
2.2.3	Total cost ✓R ✓MCA = (R68 033 × 120) + R1 600 015 ✓SF = R8 163 960 + R1 600 015 ✓MA = R9 763 975 ✓CA	1MCA number of months 1SF correct instalment 1SF correct once-off cost 1MA simplification 1CA total cost (5)	F L2
2.2.4	Amount more = R9 763 975 -- R5 990 000 = R3 773 975 ✓CA % more = $\frac{3\,773\,975}{5\,990\,000}$ × 100% ✓MCA = 63% ✓CA Not Correct/Incorrect ✓O	**CA from Question 2.2.3** 1CA total loan cost 1MCA percentage calculation 1CA simplification 1O conclusion/verification (4)	F L4

2.2.5	1st Year = R 350 000 × 17% = R 59 500 Total = R 350 000 + R 59 50 = R 409 500 2nd Year = R 409 500 × 17% = R 69 615 Total = R 409 500 + R 69 615 = R 479 115 3rd Year = R 479 115 × 17% = R 81 449,55 Total = R 479 115 + R 81 449,55 = R 560 564,55 = R 557 600 **OR** Total amount owed in three years = R 350 000 × 1,17 × 1,17 × 1,17 = R 560 564,55 = R 560 600	1MA interest calculation 1CA simplification 1CA using correct amount 1CA simplification 1CA simplification 1R to the nearest Hundred Rand (6)	F L3

Q	Solution	Explanation	T&L
2.2.6	Total monthly instalments option two = 15 × 12 × R55 935 ✓**MA** = R10 068 300 ✓**CA** Total monthly instalments option three = 20 × 12 × R50 659 = R12 158 160 ✓**CA** Difference R12 158 160 – R10 068 300 = R2 089 860 ✓**CA** INVALID ✓**O**	1MA multiplying correct values 1A simplification 1CA simplification 1CA simplification 1O verification (5)	F L4
		[36]	

UESTION 3 [36 MARKS]

Q	Solution	Explanation	T&L
3.1.1	Kenya, ✓**RT** Botswana, ✓**RT** Senegal	1RT first correct country 1RT last two correct countries (2)	D L1
3.1.2	C OR Compound bar graph ✓✓**A**	2A correct graph (2)	D L1
3.1.3	Algeria ✓✓**A**	2A correct country (2)	D L2
3.1.4	2,9%; 8,2%; 8,3%; 9,1%; **10,1%**; **10,2%**; 12,4%; 12,8%; 12,9%; 21,3% ✓**M** Median $= \frac{10,1\%+10,2\%}{2}$ ✓**RT** ✓**M** = 10,15% ✓**CA**	1M arranging in order 1RT all correct percentages 1M concept of median 1CA simplification (4)	D L3
3.1.5	Probability of countries with inflation rate less than10% $= \frac{4}{10}$ ✓**A**✓**A** = 0,4 ✓**CA**	1A correct numerator 1A correct denominator 1CA simplification (3)	P L2

3.1.6	Mean ✓SF $11{,}14\% = \frac{8{,}9\%+9{,}0\%+9{,}3\%+9{,}3\%+4{,}1\%+10{,}4\%+10{,}6\%+10{,}2\%+P+25{,}5\%}{10}$ ✓M ✓MA ✓A $11.14 \times 10 = 97{,}3 + P$ P 111,4 – 97,3 ✓MCA = 14,1% ✓CA 1Sf correct substitution of mean 1M concept of mean 1A adding table values 1MA multiplying by 10 1MCA P as subject of the formula 1CA simplification (6)		D L3
3.1.7	No ✓A The mean is affected by outliers ✓✓O	1A 2O correct reason (3)	D L4
3,2			
3.2.1	Total population in 2023 = 17 979 000 Total population in 2022 = 17 826 000 Difference = 17 979 000 – 17 826 000 ✓RT✓MA = 153 000 ✓A **OR** Difference = (17,979 – 17,826) million ✓RT ✓MA = 0,153 × 1 000 000 = 153 000 ✓A	1RT correct values 1MA subtracting correct values 1A simplification If the zeros are omitted, max 2 marks (3)	D L2

3.2.2	Range = Highest – Lowest 104,535 = 106,981 – B ✓**SF** B = 106,981 – 104,535 ✓**MCA** = 2,446 ✓**CA**	1SF substituting correctly 1MCA subtracting values 1CA simplification (3)	D L2
3.2.3	Percentage increase ✓**MA** $= \frac{107,734-106,981}{106,981} \times 100\%$ ✓**RT** = 0,703863% = 0,7% ✓**CA**	1MA subtracting values 1RT denominator 1CA simplification NPR (3)	D L2
3.2.4	Kenya ✓✓**A**	2A correct modes (2)	D L1
3.2.5	Egypt ✓**RT** Its population size is **far much bigger** than that of the other nine countries ✓✓**O**	1RT correct country 2O opinion/reason (3)	D L4
		[36]	

QUESTION 4 [30 MARKS]

Q	**Solution**	**Explanation**	**T&L**
4.1.1	Ascending order ✓**RT** 155; 600; 600; 1 250; 1 750; 2 450 ✓**A**	1RT correct values 1A correct order (2)	D L1
4.1.2	Ratio ✓**RT** 1 250 : 600 ✓**M** 25 : 12 ✓**A**	1RT correct values 1M correct order 1A simplification (3)	F L2

4.1.3	Profit ✓**RT** = (R248 × 6) – (R155 × 6) ✓**MA** R1 488 – R930 ✓**MCA** = R558 ✓**CA** **OR** Profit ✓**RT** = R248 – R155 ✓**MCA** = R93 × 6 ✓**MA** = R558 ✓**CA**	1RT correct selling and cost price 1MA multiplying both by 6 1MCA concept of profit 1CA simplification **OR** 1RT correct selling and cost price 1MCA concept of profit 1 MA multiplying by 6 1CA simplification (4)	F L3
4.1.4	Profit on one bat = R2 765 – R1 750 ✓**MA** = R1 015 ✓**A** Profit percentage $\frac{Profit\ on\ one\ bat}{Cost\ price} \times 100\%$ $= \frac{R1\ 015}{1\ 750} \times 100\%$ ✓**MCA** = 58% ✓**CA** Bran is correct ✓**O**	1MA subtracting correct values 1A simplification 1MCA dividing correct values 1CA simplification 1O correct opinion (5)	F L4

Q	Solution	Explanation	T&L
4.1.5	R1 250 × 60% ✓**MA** = R750 S = R1 250 + R750 ✓**MCA** = R2 000 ✓**CA** **OR** R 12 50 ✓**RT** × $\frac{160}{100}$ ✓**MCA** = R2 000 ✓**CA**	1MA multiplying correct amount with 60% 1MCA adding correct values 1CA simplification **OR** 1RT correct cost price 1MCA multiplying with $\frac{160}{100}$ 1CA simplification (3)	F L2
4.2			
4.2.1	Box and whisker diagram ✓✓**A**	2A correct diagram (2)	D L1
4.2.2 (a)	Maximum distance of Bran 14km ✓✓**A**	2A correct distance 14km (2)	D L2
4.2.2 (b)	Minimum distance of Sam = 1,5km ✓✓**A**	2A correct distance 1,5km (2)	D L2
4.2.3	Median = 9,5km ✓✓**A**	2A correct median (2)	D L1
4.2.4	Interquartile range = Q3 – Q1 ✓**F** ✓**RT** = 10,5 – 6,5 ✓**M** = 4,0 km ✓**CA** INVALID ✓**O**	 1F correct formula 1RT quartiles 3 & 1 1M subtracting values 1CA simplification 1O verification (5)	D L4
		[30]	

QUESTION 5 [22 MARKS]

Q/*V*	Solution/*Oplossing*	Explanation	T&L
5.1.1	R1 = 0,725671 BWP ✓✓**A** **OR** 1 BWP = R1,3778640627 ✓✓**A**	 2A correct exchange rate (2)	F L2
5.1.2	Botswana Pula ✓✓**A**	2A correct currency (2)	F L2

5.1.3	R0,4 million × 40% ✓**MA** = R0,16 million ✓**A** = R0,16 million × 7,48593 ✓**MCA** **= 1,1977488** million DZD **= 1 197 748,80 DZD ✓CA** ***OR*** R0,4 million × 40% ✓**MA** = R0,16 million ✓**A** $= \frac{\text{R 0,16 million}}{0,1335839368}$ DZD ✓**MCA** = 1,197 748 799 million DZD = 1 197 748,80 DZD ✓**A** **OR** R 400 000 × 40% ✓**MA** = R160 000 ✓**A** = R160 000 × 7,48593 ✓**MCA** = 1 197 748,80 DZD ✓**CA** **OR** R0,4 million = R400 000 = R400 000 × 40% ✓**MA** = R160 000 ✓**A** $= \frac{\text{R 160 000}}{0,1335839368}$ DZD ✓**MCA** = 1 197 748,80 DZD ✓**CA**	1MA multiplying correct 1A simplification 1MCA multiplying by exchange rate 1CA correct amount ***OR*** 1MA multiplying correct values 1A simplification 1MCA dividing by exchange rate 1CA correct amount ***OR*** 1MA multiplying correct 1A simplification 1MCA dividing by exchange rate 1CA simplification ***OR*** 1MA multiplying correct values 1A simplification 1MCA dividing by exchange rate 1CA simplification values (4)	F L2

5,2			
5.2.1	Yearly taxable income = R46 031,50 × 12 ✓**MA** = R552 378 ✓**A**	1MA multiplying correct amount by 12 1A simplification (2)	F L1
5.2.2	South African Revenue Services ✓✓**A**	2A correct institution **Accept SARS** (2)	F L1
5.2.3	Total Amount Of Tax R 115 762 + 36% × (R552 378 – 488 700) ✓**RT** ✓**SF** R 115 762 + 36% × 63 678 R 115 762 + 22 924,08 = R138 686,08 ✓**CA**	**CA from Question 5.2.1** 1RT correct tax bracket 1SF substitution in formula 1CA simplification (3)	F L3
5.2.4	Annual Medical credits = (R364 + R364 + R246) ✓**RT** × 12 ✓**M** = R974 × 12 = R11 688 ✓**CA**	1RT adding correct medical credits 1M multiplying by 12 1CA simplification (3)	F L2
5.2.5	Annual tax ✓**RT** = R138 686,08 – (R16 425 – R9 444) – R11 688 ✓**MCA** = R101 129,08 ✓**CA** VALID ✓**O**	**CA from Questions 5.2.3 and 5.2.4** 1RT primary & secondary rebates 1MCA subtracting medical credits 1CA simplification 1O verification (4)	F L4
		[22]	
		TOTAL: 150	

EXTRA SOLUTIONS

2.2.3	Total cost ✓**SF** ✓**MCA** ✓**SF** = (R68 033 × 120) + (R1 600 015 + R 1 000 000) = R8 163 960 + R2 600 015 ✓**M** = R10 763 975 ✓**CA**	**CA from 2.2.1.** 1MCA number of months 1SF correct instalment 1SF correct once-off cost & deposit 1M adding amounts 1CA total cost (5)	F L2
2.2.4	Amount more = R10 763 975 – R5 990 000 = R4 773 975 ✓**CA** % more = $\frac{\text{R 4 773 975}}{\text{R 5 990 000}} \times 100\%$ ✓**MCA** = 79,69908% = 79,7% ✓**CA** NOT CORRECT/INCORRECT ✓**O**	**CA from Question 2.2.3** 1CA total loan cost 1MCA percentage calculation 1CA simplification 1O conclusion/verification NPR (4)	F L4
4.1.2.	Ratio ✓**RT** 1250 : 600 ✓**M** 1 : 0,48 ✓**CA**	1RT correct values 1M correct order 1CA simplified as unit ratio (3)	