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**LIMPOPO**PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICADEPARTMENT 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.**SA EXAM PAPERS**

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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.
- 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 = $R80 \div 4$ ✓MA = R20 ✓A OR Discount price = $R20 \times 4$ ✓MA = R80 ✓A	1MA dividing correct values 1A simplification (2)	F L1
1.1.3	Number of Combo's = $R400 \div R80$ ✓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



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1.1.6	Total amount $= R16,99 \times 5 \checkmark \text{MA}$ $= R84,95 \checkmark \text{A}$ OR Total amount $= R16,99 + R16,99 + R16,99 + R16,99 + R16,99 \checkmark \text{MA}$ $= R84,95 \checkmark \text{A}$	1MA multiplying correct values 1A simplification OR 1MA adding correct values 1A simplification (2)	F L1
1.1.7	Total price $= R80 + R90 \checkmark \text{MA}$ $= R170 \checkmark \text{A}$	1MA adding correct values 1A simplification (2)	F L1
1.2			
1.2.1	Categorical data $\checkmark \checkmark \text{A}$	2A correct classification (2)	D L1
1.2.2	$\checkmark \text{RT}$ Three hundred and ten million two hundred and thirty-five thousand rand. $\checkmark \text{A}$	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 $\checkmark \checkmark \text{A}$ OR A deficit is when the total current income is less than the total current expenses $\checkmark \checkmark \text{A}$	2A correct explanation (2)	F L1
1.2.4	C OR Certain $\checkmark \checkmark \text{A}$	2A correct probability (2)	P L1
1.2.5	Surplus $= R377\,194\,000 - R340\,861\,000 \checkmark \text{MA}$ $= R36\,333\,000 \checkmark \text{A}$ OR Surplus $= (R377,194 - R340,861) \text{ million } \checkmark \text{MA}$ $= R36,333 \text{ million } \checkmark \text{A}$	1MA subtracting correct values 1A simplification (2)	F L1
1.2.6	2021-2022 $\checkmark \checkmark \text{A}$	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 $= (6kl \times R0) + (4kl \times R22,26) + (4kl \times R23,23) \text{ ✓MA}$ $= R181,96 \text{ ✓CA}$ Cost VAT included $= R181,96 \times \frac{115}{100} \text{ ✓MCA}$ $= R209,25 \text{ ✓CA}$ Total cost $= R209,25 + R31,08 \text{ ✓MA}$ $= R240,33 \text{ ✓CA}$ OR Cost VAT excluded ✓SF ✓RT $= (6kl \times R0) + (4kl \times R22,26) + (4kl \times R23,23) \text{ ✓MA}$ $= R181,96 \text{ ✓CA}$ Cost VAT included $= R181,96 \times \frac{15}{100} \text{ ✓MCA}$ $= R27,29$ Cost VAT included $= R181,96 + R27,29$ $= R209,25 \text{ ✓CA}$ Total cost $= R209,25 + R31,08 \text{ ✓MA}$ $= R240,33 \text{ ✓CA}$	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 $\frac{R31,08}{R240,33} \times 100\% \quad \checkmark A \checkmark A$ $= 12,93222\%$ $= 12,9\% \quad \checkmark CA$	CA from Question 2.1.1 1A numerator 1A denominator 1CA simplification NPR (3)	F L2
2.2.1	Months $= 10 \text{ years/jaar} \times 12 \quad \checkmark MA$ $= 120 \text{ months/maande} \quad \checkmark CA$	1MA multiplying correct values 1A simplification AO (2)	F L1
2.2.2	Rate per month $\frac{10,75\%}{12} \quad \checkmark MA$ $= 0,8958\% \quad \checkmark CA$ $= 0,9\% \quad \checkmark R$	1MA dividing by 12 1CA simplification 1R to one decimal place (3)	F L2
2.2.3	Total cost $\checkmark R \quad \checkmark MCA$ $= (R68\,033 \times 120) + R1\,600\,015 \quad \checkmark SF$ $= R8\,163\,960 + R1\,600\,015 \quad \checkmark MA$ $= R9\,763\,975 \quad \checkmark CA$	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 $= R9\,763\,975 - R5\,990\,000$ $= R3\,773\,975 \quad \checkmark CA$ $\% \text{ more} = \frac{3\,773\,975}{5\,990\,000} \times 100\% \quad \checkmark MCA$ $= 63\% \quad \checkmark CA$ Not Correct/Incorrect $\checkmark O$	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 $= R\ 350\ 000 \times 17\%$ $= R\ 59\ 500$ $\text{Total} = R\ 350\ 000 + R\ 59\ 500$ $= R\ 409\ 500$ 2nd Year $= R\ 409\ 500 \times 17\%$ $= R\ 69\ 615$ $\text{Total} = R\ 409\ 500 + R\ 69\ 615$ $= R\ 479\ 115$ 3rd Year $= R\ 479\ 115 \times 17\%$ $= R\ 81\ 449,55$ $\text{Total} = R\ 479\ 115 + R\ 81\ 449,55$ $= R\ 560\ 564,55$ $= R\ 557\ 600$ OR Total amount owed in three years $= R\ 350\ 000 \times 1,17 \times 1,17 \times 1,17$ $= R\ 560\ 564,55$ $= R\ 560\ 600$	IMA interest calculation ICA simplification ICA using correct amount ICA simplification ICA simplification 1R to the nearest Hundred Rand	F L3 (6)
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Q	Solution	Explanation	T&L
2.2.6	Total monthly instalments option two $= 15 \times 12 \times R55\,935$ ✓MA $= R10\,068\,300$ ✓CA Total monthly instalments option three $= 20 \times 12 \times R50\,659$ $= R12\,158\,160$ ✓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]	
QUESTION 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 than 10% $= \frac{4}{10}$ ✓A ✓A $= 0,4$ ✓CA	1A correct numerator 1A correct denominator 1CA simplification (3)	P L2





3.1.6	Mean ✓SF $11,14\% = \frac{8,9\%+9,0\%+9,3\%+9,3\%+4,1\%+10,4\%+10,6\%+10,2\%+P+25,5\%}{10} \quad \checkmark M$ ✓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		D L3
3.1.7	No ✓A The mean is affected by outliers ✓✓O	1A 2O correct reason	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	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 $= (R248 \times 6) - (R155 \times 6) \quad \checkmark \text{MA}$ $R1\,488 - R930 \quad \checkmark \text{MCA}$ $= R558 \quad \checkmark \text{CA}$ OR Profit ✓RT $= R248 - R155 \quad \checkmark \text{MCA}$ $= R93 \times 6 \quad \checkmark \text{MA}$ $= R558 \quad \checkmark \text{CA}$	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 $= R2\,765 - R1\,750 \quad \checkmark \text{MA}$ $= R1\,015 \quad \checkmark \text{A}$ Profit percentage $\frac{\text{Profit on one bat}}{\text{Cost price}} \times 100\%$ $= \frac{R1\,015}{1\,750} \times 100\% \quad \checkmark \text{MCA}$ $= 58\% \quad \checkmark \text{CA}$ 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	$R1\ 250 \times 60\% \checkmark MA$ $= R750$ $S = R1\ 250 + R750 \checkmark MCA$ $= R2\ 000 \checkmark CA$ OR $R\ 12\ 50 \checkmark RT \times \frac{160}{100} \checkmark MCA$ $= R2\ 000 \checkmark CA$	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 $\checkmark\checkmark A$	2A correct diagram (2)	D L1
4.2.2 (a)	Maximum distance of Bran = 14km $\checkmark\checkmark A$	2A correct distance 14km (2)	D L2
4.2.2 (b)	Minimum distance of Sam = 1,5km $\checkmark\checkmark A$	2A correct distance 1,5km (2)	D L2
4.2.3	Median = 9,5km $\checkmark\checkmark A$	2A correct median (2)	D L1
4.2.4	Interquartile range $= Q3 - Q1 \checkmark F$ $\checkmark RT$ $= 10,5 - 6,5 \checkmark M$ $= 4,0\ km \checkmark CA$ INVALID $\checkmark O$	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	$R1 = 0,725671\ BWP \checkmark\checkmark A$ OR $1\ BWP = R1,3778640627 \checkmark\checkmark A$	2A correct exchange rate (2)	F L2
5.1.2	Botswana Pula $\checkmark\checkmark A$	2A correct currency (2)	F L2



5.1.3	$R0,4 \text{ million} \times 40\% \checkmark \text{MA}$ $= R0,16 \text{ million} \checkmark \text{A}$ $= R0,16 \text{ million} \times 7,48593 \checkmark \text{MCA}$ $= 1,1977488 \text{ million DZD}$ $= 1\ 197\ 748,80 \text{ DZD} \checkmark \text{CA}$ OR $R0,4 \text{ million} \times 40\% \checkmark \text{MA}$ $= R0,16 \text{ million} \checkmark \text{A}$ $= \frac{R\ 0,16 \text{ million}}{0,1335839368} \text{ DZD} \checkmark \text{MCA}$ $= 1,197\ 748\ 799 \text{ million DZD}$ $= 1\ 197\ 748,80 \text{ DZD} \checkmark \text{A}$ OR $R\ 400\ 000 \times 40\% \checkmark \text{MA}$ $= R160\ 000 \checkmark \text{A}$ $= R160\ 000 \times 7,48593 \checkmark \text{MCA}$ $= 1\ 197\ 748,80 \text{ DZD} \checkmark \text{CA}$ OR $R0,4 \text{ million} = R400\ 000$ $= R400\ 000 \times 40\% \checkmark \text{MA}$ $= R160\ 000 \checkmark \text{A}$ $= \frac{R\ 160\ 000}{0,1335839368} \text{ DZD} \checkmark \text{MCA}$ $= 1\ 197\ 748,80 \text{ DZD} \checkmark \text{CA}$	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	F L2
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(4)





5.2			
5.2.1	Yearly taxable income $= R46\,031,50 \times 12 \checkmark \text{MA}$ $= R552\,378 \checkmark \text{A}$	1MA multiplying correct amount by 12 1A simplification (2)	F L1
5.2.2	South African Revenue Services $\checkmark \checkmark \text{A}$	2A correct institution Accept SARS (2)	F L1
5.2.3	Total Amount Of Tax $R\,115\,762 + 36\% \times (R552\,378 - 488\,700) \checkmark \text{RT} \checkmark \text{SF}$ $R\,115\,762 + 36\% \times 63\,678$ $R\,115\,762 + 22\,924,08$ $= R138\,686,08 \checkmark \text{CA}$	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 $= (R364 + R364 + R246) \checkmark \text{RT} \times 12 \checkmark \text{M}$ $= R974 \times 12$ $= R11\,688 \checkmark \text{CA}$	1RT adding correct medical credits 1M multiplying by 12 1CA simplification (3)	F L2
5.2.5	Annual tax $\checkmark \text{RT}$ $= R138\,686,08 - (R16\,425 - R9\,444) - R11\,688 \checkmark \text{MCA}$ $= R101\,129,08 \checkmark \text{CA}$ VALID $\checkmark \text{O}$	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 = $\frac{R\ 4\ 773\ 975}{R\ 5\ 990\ 000} \times 100\%$ ✓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)	

