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Proudly South African

**GAUTENG PROVINCE**EDUCATION
REPUBLIC OF SOUTH AFRICA

PREPARATORY EXAMINATION

2025

MARKING GUIDELINES

MATHEMATICAL LITERACY (PAPER 1) (10601)

10 pages

CODES	EXPLANATION
M	Method
MA	Method with accuracy
CA	Consistent accuracy
A	Accuracy
C	Conversion
D	Define
J	Justification/Reason/Explain
S	Simplification
RT/RD/RG/RS	Reading from a table/ graph/diagram/map/plan/source
F	Choosing the correct formula
SF	Correct substitution in a formula
O	Opinion
P	Penalty, e.g. for no units, incorrect rounding-off, etc.
R	Rounding-off
NP	No penalty for omitting units
NPR	No penalty for rounding-off

KEY TO TOPIC SYMBOLS:

F = Finance; DH = Data Handling ; P = Probability

**SA EXAM PAPERS**

Proudly South African

QUESTION 1			ANSWER ONLY FULL MARKS		(30 marks)
Q	Answer		Explanation	Topic Level	Mark
1.1	1.1.1	D ✓✓A	2 A correct answer Accept exchange rate	F1	2
	1.1.2	F ✓✓A	2 A correct answer Accept tariff	F1	2
	1.1.3	E ✓✓A	2 A correct answer Accept Value Added Tax	F1	2
	1.1.4	G ✓✓A	2 A correct answer Accept credit	F1	2
	1.1.5	B ✓✓A	2 A correct answer Accept inflation	F1	2
1.2	1.2.1	Western Cape ✓✓RT	2 RT correct Province	DH1	2
	1.2.2	Thirteen million and twenty-three thousand eight hundred and thirty three. ✓✓A	2 A correct answer	DH1	2
	1.2.3	$13\,195\,793 - (5\,070\,287 + 1\,773\,639 + 2\,155\,489 + 647\,154 + 933\,276 + 667\,632 + 792\,815 + 295\,238)$ ✓MA $= 860\,263$ ✓A	1 MA subtracting all correct values 1A correct answer	DH1	2
	1.2.4	$\frac{647\,154}{13\,195\,793} \times 100$ ✓RT ✓MA $= 4.904\%$ ✓A	1 RT correct values 1MA percentage 1 A correct answer NPR	DH1	3
	1.2.5	$667\,632 - 295\,238$ ✓RT ✓MA $= 372\,394$ ✓A	1 RT correct values 1 MA subtracting correct values 1A correct answer Accept -372 394	DH1	3
	1.2.6	Gauteng Province ✓✓RT	2 RT correct answer Accept GP	DH1	2



1.3	1.3.1	Property rates ✓✓ RT	2 RT correct answer	F1	2
	1.3.2	$C = R24,21 + R14,27 \checkmark MA$ $= R38,48 \checkmark A$ OR $C = 600,03 - 561,55 \checkmark MA$ $= 38,48 \checkmark MA$ OR $C = 561,55 - 305 = 256,55 \times 15\% \checkmark MA$ $= R38,48 \checkmark MA$	1MA adding/ subtracting the correct values 1A correct answer NPR	F1	2
	1.3.3	$R219,70 + R561,55 \checkmark RT \checkmark MA$ $= R781,25$ OR $R819,73 - R38,48 \checkmark RT \checkmark MA$ $= R781,25$	1RT both values 1MA adding/subtracting correct values	F1	2
					[30]

QUESTION 2**(29 marks)**

Q	Answer	Explanation	Topic Level	Mark
2.1	2.1.1	$R\ 800 + R100 \checkmark MA = R\ 900 \checkmark A$	F1	2
	2.1.2	$5 \times 270 \checkmark RT \checkmark MA = R1\ 350$ OR $R1\ 080 + R270 \checkmark RT \checkmark MA = R1\ 350$	F2	2
	2.1.3	$\frac{2\ 160}{270} \checkmark RT \checkmark MA = 8 \checkmark CA$ OR $1\ 620 - 900 \checkmark RT = 720$ $\frac{720}{90} \checkmark MA = 8 \checkmark CA$ OR $270 \times 8 \checkmark RT \checkmark MA = 2\ 160 \checkmark CA$	F2	3





	2.1.4(a)	(5; 1 350) ✓RT ✓A	1 RT correct values 1A correct order	F1	2
	(b)	6 ✓✓A	2 A correct answer	F1	2
	2.1.5	Total expenses = R 900 ✓A + 90 (n) ✓ MA	CA fixed cost from 2.1.1 1 A for R900 1 MA for adding variable cost	F2	2



	2.1.6	Income = $100 \times R270$ ✓ MA = R27 000 ✓ A Expenses = $R900 + 90(100)$ ✓ MCA = R9 900 ✓ CA Profit = $R27\,000 - R9\,900$ ✓ MCA = R17 100 ✓ CA OR $R270 - R90$ ✓ MA = R180 ✓ A $\therefore 100 \times R180$ ✓ MCA = R18 000 ✓ CA Profit = $R18\,000 - R900$ ✓ MCA = R17 100 ✓ CA	CA from 2.1.5 (Expenses) 1 MA multiplying correct values 1A correct answer 1 MCA adding fixed and variable expenses together 1CA correct answer 1 MCA subtracting expenses from income 1 CA answer	F3		6
2.2	2.2.1	1st year : $12\% + 100\% = 112\%$ ✓ MA = 1.12 ✓ S $1,12 \times R60\,000$ ✓ M = R 67 200 ✓ A 6 months : $\frac{12\%}{2} = 6\%$ ✓ A $6\% + 100\% = 106\% = 1,06$ ✓ A $1,06 \times R67\,200$ ✓ MCA = R 71 232 ✓ CA OR 1st year : $12\% + 100\% = 112\%$ ✓ MA = 1.12 ✓ S 6 months : $\frac{12\%}{2} = 6\%$ ✓ A $6\% + 100\% = 106\% = 1,06$ ✓ A $R60\,000 \times 1,12 \times 1,06$ ✓ MCA = R71 232 ✓ CA	1 MA increasing the percentage 1S simplification 1M multiplying correct values 1A correct answer 1A percentage 1A increased percentage 1 MCA multiplying correct values 1 CA answer	F3		8
	2.2.2	$R71\,232 - R60\,000$ ✓ MA = R 11 232 ✓ A	CA from Q2.2.1 1MA subtracting correct values 1A correct answer	F2		2
						[29]



QUESTION 3 (28 marks)				
Q	Answer	Explanation	Topic Level	Mark
3.1	3.1.1 $0,741 \times 1\,000\,000 \checkmark \text{MA}$ $= 741\,000 \checkmark \text{A}$	1MA multiply by 1 000 000 1A correct answer AO	DH2	2
	3.1.2 Northern Cape $\checkmark \checkmark \text{A}$	2A correct answer	DH1	2
	3.1.3 Increases $\checkmark \text{A}$ Pass rate of 2024 is higher than 2023 across all provinces $\checkmark \checkmark \text{J}$ OR All provinces improved $\checkmark \text{A}$ from 2023 to 2024. $\checkmark \checkmark \text{J}$	1A correct answer 2J reasoning	DH4	3
	3.1.4 Discrete $\checkmark \text{A}$ It can be counted $\checkmark \text{J}$	1A correct choice 1 J reasoning	DH2	2
	3.1.5 Range = Max value – Min value $14,3 = 89,7 - S \checkmark \text{SF}$ $S = 89,7 - 14,3 \checkmark \text{S}$ $= 75,4 \checkmark \text{A}$	1 SF correct values 1S simplification/changing the subject of the formula 1A correct answer	DH3	3
	3.1.6 $Mean = \frac{T+91,9+88,5+\dots}{9} \checkmark \text{MA}$ $85,5 = \frac{600,3+2T}{9} \checkmark \text{S}$ $769,5 \text{ MA} = 600,3 + 2T$ $769,5 - 600,3 = 2T \checkmark \text{MCA}$ $2T = 169,2 \checkmark \text{S}$ $T = 84,6 \checkmark \text{CA}$	1MA mean concept 1 S simplification 1MCA changing subject of formula 1S value of 2 T 1 CA answer	DH3	5
3.2	3.2.1 1 060: 15 657 $\checkmark \text{RT} \checkmark \text{A}$ $1 : 14,77 \checkmark \text{S}$	1 RT correct values 1A correct order 1S answer in unit form NPR	DH2	3
	3.2.2 783; 824; 837; 865; 911; 926; 946; 1 060; 1 095; 1 161 $\checkmark \checkmark \text{A}$	2A correct order	DH2	2



3.2.3	Median $\frac{911+926}{2} \checkmark \text{MA} = 918.5 \checkmark \Delta$ $Q1 = 837 \checkmark \text{A}$ $Q3 = 1060 \checkmark \text{A}$ Min 783 $\checkmark \text{A}$ Max = 1161 $\checkmark \text{A}$	CA (arrangement) from Q 3.2.2 1MA median concept 1A correct median 1A correct Q1 1A correct Q3 1A correct min 1A correct max	DH3	6
				[28]

QUESTION 4**(28 marks)**

Q	Answer	Explanation	Topic Level	Mark
4.1	4.1.1	R17 235 + R9 444 $\checkmark \text{MA} = \text{R}26\,679 \checkmark \text{A}$ 1 MA adding correct values 1A correct answer AO	F1	2
	4.1.2	$\frac{\text{R}680\,000}{12} \checkmark \text{MA} = \text{R}56\,666,67 \checkmark \text{A}$ Gross salary $= \text{R}680\,000 + \text{R}56\,666,67 \checkmark \text{MCA}$ $= \text{R}736\,666,67 \checkmark \text{CA}$ OR $\frac{\text{R}680\,000}{12} \checkmark \text{MA} = \text{R}56\,666,67 \checkmark \text{A}$ Gross salary $= \text{R}56\,666,67 \times 13 \checkmark \text{MCA}$ $= \text{R}736\,666,71 \checkmark \text{CA}$ 1 MA for monthly gross 1A correct answer 1MCA adding bonus 1 CA answer 1 MA for monthly gross 1A correct answer 1 MCA multiplying by 13. 1 CA answer	F2	4
	4.1.3	$\frac{30}{100} \times \text{R}680\,000 \checkmark \text{MA}$ $= \text{R}204\,000 \checkmark \text{CA}$ Maximum is R100 000 Only R100 000 is tax deductible $\checkmark \text{J}$ 1 MA multiplying correct values 1 CA answer 1 J identifying maximum	F4	3
	4.1.4	$\text{R}736\,666,67 - \text{R}100\,000 \checkmark \text{RT} \checkmark \text{M}$ $\text{R}636\,666,67 \checkmark \text{CA}$ OR $\text{R}736\,666,71 - \text{R}100\,000 \checkmark \text{RT} \checkmark \text{M}$ $\text{R}636\,666,71 \checkmark \text{CA}$ CA from 4.1.2 and 4.1.3 1 RT correct values 1M subtracting donation 1 CA answer	F2	3
	4.1.5	Bracket 4/4th Bracket $\checkmark \checkmark \text{RT}$ <i>(Accept rate of 100)</i> CA from 4.1.4 2 RT correct bracket	F1	2



	4.1.6	18% of taxable income ✓A $18\% \times 95\,750$ ✓MA $= 17\,235$ ✓CA –Rebate $= 17\,235 - 17\,235$ ✓MCA $= 0$ ✓CA $\therefore$ The claim is valid ✓O OR $17\,235 \div 18\%$ ✓A ✓MA = R95 750 ✓CA R95 750 – R95 750 ✓MCA $= 0$ ✓CA $\therefore$ The claim is valid ✓O	1 A correct bracket 1 MA multiplying correct values 1 CA answer 1 MCA subtract rebates 1 CA answer 1 O conclusion	F4	6
4.2	4.2.1		3 A correct answers	P2	
	(i)	C ✓A			
	(ii)	M ✓A			
	(iii)	CS ✓A			3
	4.2.2	$\frac{6}{9}$ ✓✓RT = 0,66666 ✓CA $\approx 0,7$ ✓R	1 RT numerator 1 RT denominator 1 CA answer 1 R to one decimal place	P2	4
	4.2.3	- To cater for different preferences ✓✓O OR - Cater for people who might have allergies ✓✓O (Accept any sensible/logical answer)	2 O correct reason	P4	2
					[29]



QUESTION 5 (34 marks)				
Q	Answer	Explanation	Topic Level	Mark
5.1	5.1.1 Car ✓ 50% of the drivers are generating more than R 1 000 ✓✓J	1RT car 2O justification	DH4	3
	5.1.2 $\frac{25}{100} \checkmark RT \times 300 \checkmark MA$ $= 75 \checkmark CA$ OR $\frac{75}{100} \checkmark RT \times 300 \checkmark MA = 225$ $\therefore 300 - 225 = 75 \checkmark$	1 RT 25% 1 MA multiplying correct values 1 CA answer	DH2	3
	5.1.3 $100\% + 20\% = 120\% \checkmark A$ $\frac{100}{120} \checkmark M \times R1\ 600 \checkmark MA$ $= R1\ 333,33 \checkmark CA$ OR $100\% + 20\% = 120\% \checkmark A$ $\frac{120}{100} \checkmark M = 1,2$ $\frac{1\ 600}{1,20} \checkmark MA$ $= 1\ 333,33 \checkmark CA$	1A for 120% 1M for correct fraction 1MA multiplying by R1 600 1 CA answer	DH3	4
	5.1.4 $IQR = Q_3 - Q_1 \checkmark F$ $= 1\ 200 - 400 \checkmark RT$ $= 800 \checkmark CA$ (Accept range for Q3: 1 200 – 1 220)	F correct formula RT both values 1 CA answer	DH2	3
5.2	5.2.1 ZAR ✓Λ • because you get more rupees when you exchange ✓✓O OR • 1-Indian rupee exchanges for less than a 1 rand	1 A correct answer 2 O for justification	F4	3



5.2.2	$\frac{R30\,000}{R0.21} \times 1 \text{ Indian rupee } \checkmark C$ $142\,857,1429 \checkmark S - 3000 \checkmark MCA$ $= \frac{139\,857,1429}{12\,000} \checkmark MCA$ $= 11.6547619 \checkmark CA$ $\approx 11 \checkmark R$ $\therefore$ It won't be enough. $\checkmark J$ OR Shipping $3\,000 \times 0,21 \checkmark C = R630 \checkmark S$ Cost of 12 bikes: $12\,000 \times 0,21 \checkmark MCA \times 12 \checkmark MCA$ $= R30\,240$ Total costs: $R630 + R30\,240 \checkmark M$ $= R30\,870 \checkmark CA$ R30 000 will not be enough, there will be a shortfall of R870. $\checkmark J$ OR 1 Indian Rupees = 0,21 ZAR Number of Indian rupees $= \frac{R30\,000}{0,21} \checkmark C$ $142\,857,1429 \checkmark S$ Indian Rupees – 3000 $\checkmark MCA \quad \checkmark MCA$ $139\,857,1429 - (12 \times 12\,000)$ $139\,857,1429 - 144\,000 \checkmark M$ $\checkmark CA$ $= -4\,142,8571 \text{ Indian rupees}$ $\therefore$ It will not be enough $\checkmark J$	1 C conversion 1S simplification 1MCA subtracting 3 000 1MCA dividing by 12 000 1 CA answer 1R rounding down 1 J conclusion	F4	7
5.2.3	- Convenience $\checkmark \checkmark O$ - Time saving $\checkmark \checkmark O$ - Reduces travelling cost (Accept any sensible/logical answer)	2 O answer 2 O answer	F4	4



5.3	Cost of 1 kg = R270 ÷ 4 ✓MA = R67.50 ✓A Cost in cents = R67.50 × 100 ✓C = 6 750 cents ✓A Percentage Increase: $\frac{6\,761 - 6\,750}{6\,750} \checkmark \text{SF} \checkmark \text{SF} \times 100$ = 0,162% ✓CA OR 6761 ÷ 100 ✓C = R67,61 ✓A × 4kg ✓MA = R270,44 ✓A = $\frac{27\,044 - 27\,000}{27\,000} \checkmark \text{SF} \checkmark \text{SF} \times 100$ = 0,162962963% ✓CA OR 270 × 100 ✓C = 27 000 cents ✓A 6761 × 4 ✓MA = 27 044 cents ✓A = $\frac{27\,044 - 27\,000}{27\,000} \times 100 \checkmark \text{SF} \checkmark \text{SF}$ = 0,162962963% ✓CA	1 MA dividing by 4 1A correct answer 1C conversion 1A correct answer 1SF substitution numerator 1SF denominator 1 CA answer NPR	F3	7
				[34]
				150

