FINAL

KWAZULU-NATAL PROVINCE
EDUCATION
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 12

MATHEMATICAL LITERACY P1

JUNE EXAMINATION

MARKING GUIDELINE

2025

MARKS: 100

SYMBOL	EXPLANATION
M	Method
MA	Method with accuracy
CA	Consistent accuracy
MCA	Method with Consistent Accuracy
A	Accuracy
C	Conversion
S	Simplification
RT/RG/RD/RM	Reading from a table/ graph/ diagram/map
SF	Correct substitution in a formula
O	Opinion/ reason/deduction/example/Explanation
J	Justification
R	Rounding off
F	deriving a formula
AO	Answer only full marks
P	Penalty e.g. for units, incorrect rounding off etc.
NPR	No penalty for rounding / units

This marking guideline consists of 7 pages.

NOTES:

- 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.
- A conclusion mark can only be awarded if relevant calculations of at least $\frac{1}{3}$ of the maximum mark of the sub-question has been awarded.
- No penalty for rounding (NPR) if the first decimal is correct, except questions involving money

QUESTION 1 [20 MARKS] ANSWER ONLY FULL MARKS			
Ques	**Solution**	**Explanation**	**T& L**
1.1.1	Tax applied to the sales of good/services. ✓✓O **OR** Form of tax determined by the government and is a % charge added to the purchase price of goods/services✓✓O	2O correct definition (2)	F L1 E
1.1.2	✓RT ✓MA Total labour amount = R9 576 + R2 000 + R250 = R11 826,00	1RT All correct values 1MA Adding (2)	F L1 E
1.1.3	A = R104 490,09 – R90 860,95✓MA = R13 629,14✓A **OR** A = R 90 860,95 $\times \frac{15}{100}$ ✓MA = R13 629,14✓A **OR** A = R104 490,09 $-$ ($\frac{R104\ 490.09}{1.15}$) ✓MA = R13 629,14✓A **OR** A = $\frac{15}{115}$ × R104 490,09✓MA = R13 629,14✓A	1MA subtracting correct Values 1A Correct Answer **OR** 1MA multiplying by 15 % 1 A Correct Answer **OR** 1MA Dividing by 1,15 1A Correct Answer **OR** 1MA Multiplying by 15 and dividing by 115 1A Correct Answer (2)	F L1 M
1.1.4	17 days✓✓A	2A Correct number of days (2)	F L1 E
1.15.	✓RT R2 000: R3 780 100 : 189✓S	1RT Correct values and correct order 1S simplifying (2)	F L1 E

1.2.1	Horizontal bar graph ✓✓A	2A answer **Accept: bar graph** (2)	DH L1 E
1.2.2	Questionnaire✓✓A	2A answer (2)	DH L1 E
1.2.3	Difference = 61% - 2%✓MA = 59%✓A	1 MA subtracting correct values 1A correct answer (2)	DH L1 E
1.2.4	Outside the school gate✓✓RT	2RT correct answer (2)	DH L1 E
1.2.5	Lack of supervision. ✓✓O **OR** Peer pressure. ✓✓O **OR** Low self-esteem. ✓✓O **OR** Inadequate Conflict solution skills✓✓ O	2O Correct explanation (2)	DH L1 E
		[20]	

QUESTION 2 [30 MARKS]			
2.1.1	5 bedrooms✓A 2 bathrooms✓A	1A for 5 bedrooms 1A for 2 bathrooms (2)	F L1 E
2.1.2	✓RT ✓MA Loan Amount = R2 500 000 – (10% × R2 500 000) = R2 250 000✓A **OR** ✓RT Loan Amount = R2 500 000 × 90%✓MA = R 2 250 000✓A	1RT Cash Price 1MA subtracting deposit 1A answer **OR** 1RT Cash Price 1MA multiplying by 90% 1A answer (3)	F L2 E
2.1.3	✓A Monthly Bond Repayment = $\frac{\text{R2 250 000} \times 9{,}8}{1\,000}$ ✓SF = R22 050✓CA	**CA from 2.1.2** 1A correct factor 1SF correct substitution 1CA answer (3)	F L2 M
2.1.4	25 years = 25 × 12 300 months✓C ✓MCA Total Amount = R 250 000 + (R22 050 × 300) = R6 865 000 Claim is VALID✓O	**CA from 2.1.3** 1C conversion 1MCA for deposit 1O opinion (3)	F L4 M
2.2.1	Tax paid to SARS when purchasing a property✓✓O	2O correct explanation (2)	F L1 E

2.2.2	✓A Transfer duty = R53 544 + 8%(R2 500 000 – R2 329 300)✓SF = R67 200✓A	1A correct rate 1SF Correct substitution 1A answer (3)	F L2 M
2.2.3	✓MA $\frac{\text{R67 200}}{\text{R2 500 000}\checkmark A} \times 100\%$ ≈ 2,7%✓R	**CA from 2.2.2** 1MA % concept 1A Denominator 1R rounding (3)	F L2 E

2.3.	✓A Amount = 103,7% × R66 865,19✓MA = R69 339,20✓A Difference = R69 339,20 – R62 700✓MCA = R2 139,20✓CA The claim is INVALID✓O **OR** ✓A Interest = 3,7% × R66 865,19✓MA = R2 474,01✓A Amount: R66 865,19 + R2 474,01 = R69 339,20 Difference = R69 339,20 – R62 700✓MCA = R2 139,20✓CA The claim is INVALID✓O	1A for Interest Rate 1MA multiplying by 103,7% 1A correct amount 1MCA subtracting values 1CA answer 1O opinion **OR** 1A for Interest Rate 1MA multiplying by 3,7% 1A correct amount 1MCA subtracting values 1CA answer 1O opinion (6)	F L4 M
2.4	✓MA Property Value in 2024 = (R 2 500 000 $\times\frac{6,5}{100}$) + R 2 500 000 = R 2 662 500✓A ✓MCA Property Value in 2025 = (R2 662 500 $\times\frac{6,5}{100}$) + R 2 662 500 = R 2 835 562,50✓CA R 2 835 562,50 > R 2 700 000✓O . **OR**	1MA multiplying by 6,5 % and adding R 2 500 000 1 A correct amount 1MCA multiplying by 6,5 % and adding values 1CA correct amount 1 O correct Explanation **OR**	F L3 M

	✓MA Property Value in 2024 = 106,5 % × R 2 500 000 = R 2 662 500✓A ✓MCA Property Value in 2025 = 106,5 % × R 2 662 500 = R 2 835 562,50✓CA R 2 835 562,50 > R 2 700 000✓O	1MA multiplying by 106,5 % 1 A correct amount 1MCA multiplying by 106,5 % 1CA correct amount 1 O correct Explanation (5)	
		[30]	

QUESTION 3 [25 MARKS]			
3.1.1	✓A ✓A 2017 /18 , 2018/19 and 2020/21	1A for 2017 to 2019 1A for 2020/21 (2)	DH L1 E
3.1.2	✓MA Sum = (9417+9931+11180+12773+14602+16717+16325+16026 +18162+16731+20976) = 162 840 Mean = 162 840 ÷ 11✓MA = 14 803,64✓CA = 14 804 ✓R	1MA adding correct values 1MA dividing by 11 1CA answer 1R Rounding **Accept: 14 803** (4)	DH L2 E
3.1.3	The graph is showing the trend between plotted points of discrete data; therefore, it is a broken line graph.✓✓O **OR** The points represent the number of car hijackings for each year from 2011/12 to 2021/22. ✓✓O	2O correct explanation (2)	DH L1 E
3.1.4	Number of car hijackings = 6✓A P(No. of carjackings ≥ 16 000) = $\frac{6}{11✓A} \times 100\%$✓MA ≈ 54,54%✓A	1A for 6- Numerator 1MA % concept 1A for 11- Denominator 1A for answer (4)	P L2 M
3.2.1	box-and-whisker plot ✓✓A	2A answer (2)	DH L1 E
3.2.2	Difference Over 30's = 25 - 5✓MA = 20✓A	1MA subtracting values 1A answer (2)	DH L1 E

3.2.3	✓RT Over 30s: IQR = 20 – 12✓RT = 8✓A ✓RT Under 30s: IQR = 27 – 16✓RT = 11✓A $\frac{8}{11} \approx 0{,}73$✓CA 0,73 < 0,75✓S The employee's statement is INVALID✓O	1RT for Q3 1RT for Q1 1A simplifying 1RT for Q3 1RT for Q1 1A simplifying 1CA correct decimal 1S comparing decimals 1O opinion (9)	DH L4 M
		[25]	

QUESTION 4 [25 MARKS]			
4.1.1	✓RT ✓MA R1 = \$1 ÷ 18,43 = \$0,054	1RT for \$1 1MA dividing by 18,43 (2)	F L2 E
4.1.2	✓RT £1 = 23,78 ÷ 18,43✓MA = \$1,29✓A	1RT for R23,78 1MA dividing correct values 1A answer (3)	F L2 M
4.1.3	**Expressing prices in SA rand** South Africa: price = R51,90✓RT United States of America: price = 5,69 × R18,43✓MA ∴ R104,87✓A United Kingdom: price = 4,59 × R23,78✓MA = R109,15✓A Ireland: price = 7 × R19,90✓MA ∴ R139,30✓A The lowest price of Big Mac is in South Africa✓O	 1RT SA price 1MA multiplying correct values 1A correct Price 1MA multiplying correct values 1A Correct Price 1MA multiplying correct values 1A Correct Price 1O opinion (8)	F L4 M
4.2.1	✓MA ✓MA Total distance = 2 × 39,5 km × 4 = 316 km✓A Total free distance for 4 days: 4 × 80 km = 320 km✓A 316 km is less than 320 km✓A	1MA multiplying by 2 1MA multiplying by 4 1A answer 1A free distance 1A comparing the two (5)	F L3 M

4.2.2	Excess distance for Friday = (39,5 km ×2) +(27,8km ×2) ✓A = 134,6 km – 80 km✓MA = 54,6km✓A ✓MA ✓MA ✓MA Total Cost = (5 × R235) + (54,6 × R1,80) + R630 = R1 903,28✓CA	1A km travelled on Friday 1MA subtracting 80 km 1A simplifying 1MA multiplying by 5 1MA multiplying R1,80 by 54,6 1MA adding parking fee 1CA answer (7)	F L3 M
		[25]	
		TOTAL:100	

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