Province of the EASTERN CAPE EDUCATION

Iphondo leMpuma Kapa: Isebe leMfundo
Provinsie van die Oos Kaap: Department van Onderwys
Porafensie Ya Kapa Botjahabela: Lefapha la Thuto

NATIONAL SENIOR CERTIFICATE

GRADE 12

SEPTEMBER 2026

MATHEMATICAL LITERACY P1 MARKING GUIDELINE

MARKS: 150

Symbol	Explanation
MA	Method with accuracy
CA	Consistent accuracy
A	Accuracy
C	Conversion
S	Simplification
RT	Reading from a table/a 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 correct rounding minimum two decimal places
AO	Answer only
MCA	Method with constant accuracy

This marking guideline consist of 11 pages.

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MARKING GUIDELINES

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 incorrect item presented.

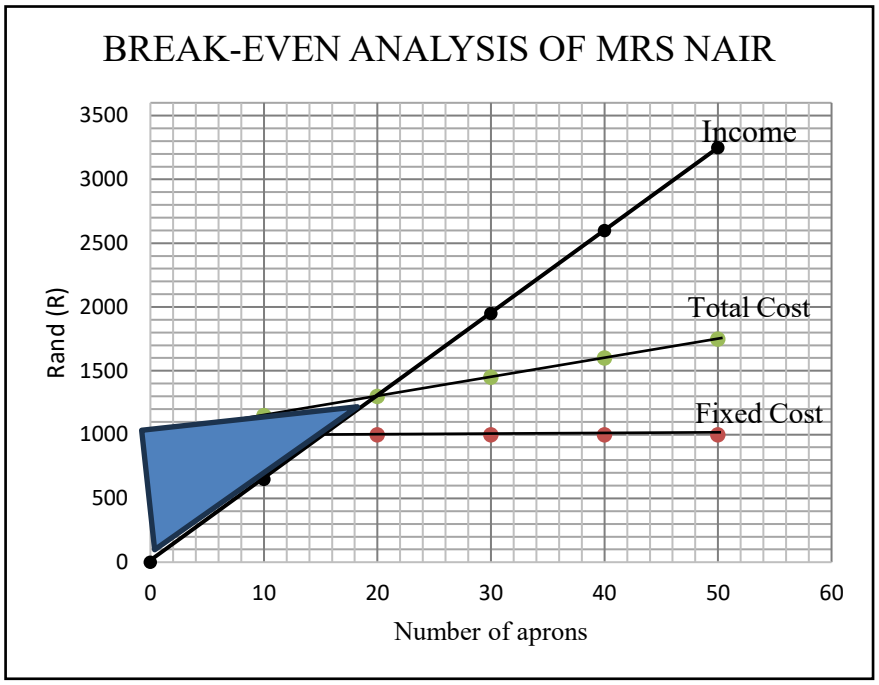
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QUESTION 1 [28 marks]			
Ques.	**Solution**	**Explanation**	**Topic and Level**
1.1.1	9665450322 ✓✓A	2A correct answer (2)	F L1
1.1.2	VAT amount = R854,13 x 1,15 ✓MA = R982,25 ✓A **OR** VAT amount = R854,13 $\times \frac{15}{100}$ ✓MA = R854,13 + R128,13 = R982,25 ✓A	1 multiplying by 1,15 1A answer (2)	F L1
1.1.3	= R18 500,00 - R6 200,00 ✓MA = R12 300 ✓CA	2A Correct amount (2)	F L1
1.1.4	15/08/2026 **OR** 15 August 2026 ✓✓A	2A Correct date (2)	F L1
1.2.1	Continuous data ✓✓A	2A correct answer (2)	D L1
1.2.2	Discrete data ✓✓A	2A correct answer (2)	D L1
1.2.3	Categorical ✓✓A	2A Correct answer (2)	D L1
1.3	Sunday ✓✓A	2A Correct day (2)	P L1
1.4.1	= R216,67 x 36 ✓MA = R7 800 ✓ CA	1MA multiplying by 36 1CA answer (2)	F L1
1.4.2	Difference = R7 800 – R6 000,00 ✓MA = R1 800 ✓CA **OR**	10% = 0,1 0,1 x R6 000 x 3 ✓ MA R600 x 3 R1 800 ✓CA	1MA subtracting correct amounts 1CA answer (2)	F L1
1.5.1	T. Cost = R200,00 + R20,00 + R13,00 + R30,00 ✓MA = R263,00 ✓CA	1MA adding correct values 1CA answer (2)	F L1
1.5.2	Profit = R350,00 - R263,00 ✓MA = R87,00 ✓CA	1MA subtracting correct values 1CA answer (2)	F L1
1.5.3	Profit is the difference between the selling price and cost price ✓✓A **(Accept any reasonable answer)**	2A definition (2)	F L1
1.5.4	Ratio: 13 : 30 ✓✓A	2A correct ratio (2)	F L1
		[28]	

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QUESTION 2 [33 marks]			
Ques.	**Solution**	**Explanation**	**Topic and Level**
2.1.1	Fixed Cost = R1 000,00 ✓✓A	2A correct formula (2)	F L2
2.1.2	A = R1 000,00 ✓A B = R1 000,00 + R300,00 ✓MA = R1 300,00 ✓A **OR** B = R1 000,00 + (R15 x 20) ✓MA = R1 300,00 ✓A	1A correct amount 1MA adding correct values 1A answer (3)	F L1
2.1.3		1A first point (total costs graph) 1A last point (total cost graph) 1A first point fixed cost graph 1A last point fixed cost graph 1A for two points correctly plotted (total cost) (5)	F L3
2.1.4	Shading the lower region before 20 aprons ✓✓CA	2A correct shading (2)	F L2
2.2.1	Rand is weaker than Pound ✓✓A	2A correct explanation (2)	F L2

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2.2.2	Previous exchange rate: 1GBP = 22,683ZAR 1 375 GBP = ? ? = $\frac{\text{1 375 GBP x 22,683ZAR}}{\text{1GBP}}$ ✓C ? = R31 189,13 ✓CA Current exchange rate: 1GBP = 22,4436ZAR 1 375 GBP = ? ? = $\frac{\text{1 375 x 22,4436ZAR}}{\text{1GBP}}$ ✓RT ? = R30 859,95 ✓CA Difference = R31 189,13 - R30 859,95 ✓MA = R329,18 ✓CA	1C correct conversion 1CA simplification 1RT reading correct conversion from the table 1CA simplification 1MA subtracting correct values 1CA difference (6)	F L4
2.3.1	Inflation ✓✓A	2A answer (2)	F L1
2.3.2	Difference = R124 00,00 - R110 000,00 ✓MA = R14 000,00 ✓CA % increase = $\frac{\text{R14 000,00}}{\text{R110 000,00}}$ x 100 ✓MA = 12,7272% = 13% ✓R	1MA subtraction 1CA answer 1M multiplying by 100 1CA correct percentage 1R rounding (4)	F L3
2.4	Deposit = R180 000,00 x $^{15}/_{100}$ = R27 000,00 ✓MA Residual = R180 000,00 x $^{25}/_{100}$ = R45 000,00 ✓CA Loan amount = R180 000,000 - (R27 000,00 + R45 000,00) = R108 000,00 ✓MA 1st year = R108 000 x 1,11 = R119 880 ✓MA 2nd year = R119 880 x 1,11 = R133 066,80 3rd year = R133 066,80 x 1,11 = R147 704,15 ✓CA Total amount = R147 704,15 + R27 000,00 + R45 000,00 ✓MA = R219 704,15 ✓CA **OR**	1MA calculating deposit 1CA calculating residual value 1MA calculating loan amount 1MA calculating interest 1CA calculating interest 1MA adding correct valued 1CA answer	F L3

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	Deposit = R180 000,00 x $^{15}/_{100}$ = R27 000,00 ✓MA Residual = R180 000,00 x $^{25}/_{100}$ = R45 000,00 ✓CA Loan amount = R180 000,000 - (R27 000,00 + R45 000,00) = R108 000,00 ✓MA Loan plus interest = R108 000 $\times \frac{111}{100} \times \frac{111}{100} \times \frac{111}{100}$ ✓MA = R147 704,15 ✓CA Total amount = R147 704,15 + R27 000,00 + R45 000,00 ✓MA = R219 704,15 ✓CA	(7)	
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QUESTION 3 [32]			
Ques.	**Solution**	**Explanation**	**Topic and Level**
3.1.1	Eleven million seven hundred and eighty-five thousand and seventy. ✓✓A	2A answer (2)	D L1
3.1.2	✓MA Difference = 7 837 771 - 7 277 988 ✓RT = 109 783 = 110 000 ✓R	1RT correct values 1M subtraction 1R rounded number (3)	D L2
3.1.3	Total motorised $= 7\,837\,771 + 356\,164 + 64\,994 + 350\,405 + 2\,701\,912 + 393\,725 + 239\,469$ ✓MA $= 11\,944\,440$ ✓ CA ✓ RT % = $\frac{350\,405}{11\,944\,440}$ x 100 ✓MA = 2,93% ✓CA	1MA adding 2024 total 1CA answer 1RT correct values 1MA multiplying by 100 1CA answer (5)	D L2
3.1.4	0% **OR** impossible ✓✓ A	2A answer (2)	P L2
3.1.5	7 837 771; 2 701 912; 393 725; 356 164; 239 469; 64 994 ✓✓A If learners arrange in ascending order penalise 1 mark	2A arranging in correct order (2)	D L1
3.1.6	64 298; 237 504; 347 621; 350 680; 386 641; 2 670 338; 7 727 988 ✓A IQR = Q3 - Q1 = 2 670 338 ✓ A - 237 504 ✓A = 2 432 834 Valid ✓O	1A arranging 1A lower quartile 1A upper quartile 1O opinion (4)	D L4
3.2.1	KZN, WC, ✓A NC, LP ✓A One mark per two provinces	2A correct province (2)	D L1
3.2.2	Double bar graph, stacked bar graph, scatter plot ✓✓A	2A correct graph (2)	D L2

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3.2.3	100% - (5% + 13% + 10% + 7 % + 2% + 9% + 12% + 21%) 100% - 79% = 21% ✓CA Number of learners$= \frac{21}{100} \times 13\ 527\ 283$ ✓RT $= 2\ 840\ 729{,}43$ $= 2\ 840\ 729$ ✓CA (Accept 2 840 730)	1CA correct percentages 1RT total number of learners 1CA number rounded to the nearest whole number (3)	D L2
3.2.4	Range = 21% - 2% ✓ MA = 19% ✓ CA	1MA concept of a range 1CA answer (2)	D L2
3.2.5	Eastern Cape = 1 782 431 ÷ 61 673 ✓MA = 28,90 = 1 : 29 ✓CA Limpopo = 1 819 118 ÷ 55 336 = 32,87 = 1 : 33 ✓CA Eastern Cape is below average. 29 learners per teacher. ✓J Limpopo is above average. 33 learners per teacher. ✓	1MA dividing correct values 1CA correct ratio (EC) 1CA correct ratio (LP) 2J justification (5)	D L3
		[32]	

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QUESTION 4 [34]			
Ques.	**Solutions**	**Explanations**	**Topic and Level**
4.1.1	Annual gross = R23 500 x 12 = R282 000,00 ✓A Tax = 42 678 + $^{26}/_{100}$ (282 000 - 237 100) ✓SF = 42 678 + 0,26(44 900) = R42 678 + R11 674 = R54 352 - R17 235 ✓MA = R37 117 ÷ 12 ✓MA = R3 093,08 ✓CA	1A annual gross 1SF substitution 1MA subtracting rebate 1MA division by 12 1CA monthly tax (5)	F L3
4.1.2	✓RT Tax = 42 678 + $^{26}/_{100}$ (R370 500 - 237 100) ✓SF = 42 678 + 0,26 x 133 400 = 42 678 + 34 684 = 77 362 - R17 235 ✓MA = 60 127 ✓CA Monthly tax = 60 127 ÷ 12 ✓MA = R5 010,58 ✓CA Not valid ✓O	1RT annual salary 1SF substitution 1MA subtracting rebate 1CA annual tax 1M division by 12 1CA monthly tax 1O opinion (7)	F L4
4.2.1	Recording sheet ✓✓A	2A correct instrument (2)	D L1
4.2.2	18 ✓SF = $\frac{17+19+20+18+A+17+19+18}{8}$ ✓MA $18 = \frac{128+A}{8}$ ✓S $18 \times 8 = 128 + A$ ✓MA $A = 144 - 128$ ✓MA $A = 16$ ✓CA	1SF correct substitution 1MA addition 1S simplification 1MA multiplying by 8 1MA subtraction 1CA answer (6)	D L4
4.2.3	Outlier ✓✓A	2A answer (2)	D L2
4.3.1	2 670 000 000 ✓✓A	2A correct number (2)	D L2

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4.3.2	Prioritise ECD Basic Education ✓ because it has the least allocation. ✓✓O **(Accept any reasonable answer)**	1A category 2O correct opinion (3)	D L4
4.3.3	Budget is a plan on how money is going to be spent on education. ✓✓A **OR** Financial plan on how to spend money on education. ✓✓A **OR** Estimated income and expenditure of money to be used in education. ✓✓A	2A definition (2)	F L2
4.3.4	School infrastructure ✓✓A	2A correct answer (2)	F L2
4.3.5	P = $\frac{1}{4}$ ✓A 4 ✓A = 0,25 ✓CA	1A numerator 1A denominator 1CA simplification (3)	P L2
		[34]	

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QUESTION 5 [23]			
Ques.	**Solutions**	**Explanations**	**Topic and Level**
5.1.1	C ✓✓A	2A correct answer (2)	F L1
5.1.2	A ✓✓A	2A correct answer (2)	F L1
5.2.1	81 ✓✓A	2A mode (2)	D L2
5.2.2	Median $=\frac{75+79}{2}$ ✓MA Median $=\frac{154}{2}$ ✓MA Median = 77 ✓A	1MA median method 1MA adding and dividing by 2 1A correct median (3)	D L2
5.3.1	UIF = R18 000 x $^{1}/_{100}$ ✓MA = R180,00 ✓CA Noxie is correct. ✓J	1MA multiplying by $^{1}/_{100}$ 1CA simplification 1J justification (3)	F L2
5.3.2	The mistake that was made was adding housing subsidy and cellphone allowance to the basic salary before calculating UIF. ✓✓A **(Accept any reasonable answer)**	2A explanation (2)	F L4
5.4	Sewage used = 40 kℓ x $^{75}/_{100}$ = 30 kℓ ✓A **NOVA: SEWAGE** 6 kℓ x R30,89 = R185,34 ✓ MA 9 kℓ x R24,71 = R222,39 15 x R10,50 = R157,50 = R565,23 x 1,15 ✓MA = 650,01 ✓CA **WATER:** 40 – 30 =10 kℓ 6 kℓ x R26,12 = R156,72 4 kℓ x 43,00 = R172,00 = R328,72 x 1,15 = R378,03 ✓CA Total = R650,01 + R378,03 = R1 028,04 ✓CA **PAUL: ELECTRICITY** 300 kWh x R2,5861 = R775,83 ✓CA Total = R775,83 + (R35 x 4) = R915,83 ✓CA Nova will pay more (R112,21) ✓O	1A sewage used 1MA correct kℓ 1 MA multiply by 1,15 1CA answer 1CA answer 1CA answer 1CA answer 1CA answer 1O opinion (9)	F L4
		[23]	

TOTAL MARKS: 150

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