Province of the
EASTERN CAPE
EDUCATION

NATIONAL SENIOR CERTIFICATE

GRADE 11

NOVEMBER 2023

MATHEMATICAL LITERACY P1 MARKING GUIDELINE

MARKS: 100

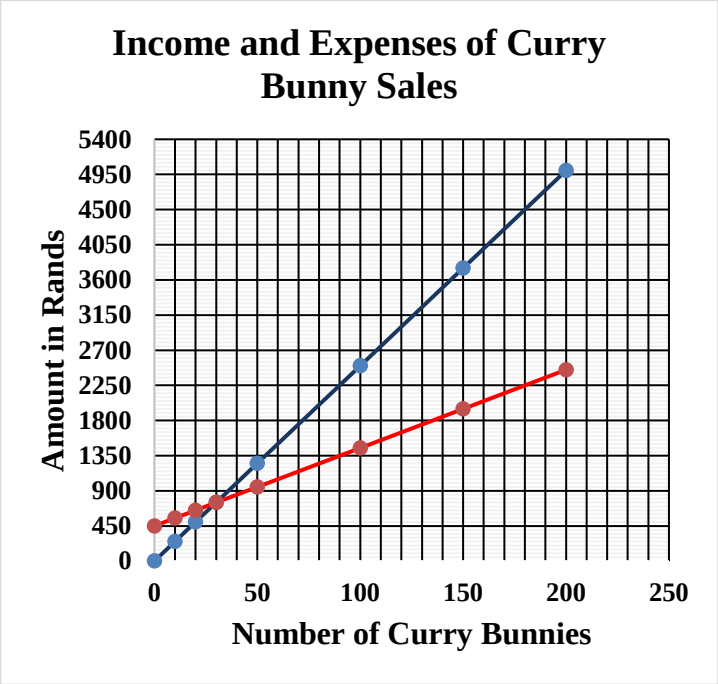
Symbol	Explanation
M	Method
MA	Method with accuracy
CA	Consistent accuracy
A	Accuracy
C	Conversion
S	Simplification
RT/RG/RM	Reading from a table/Reading from a graph/Reading from a map
F	Choosing the correct formula
SF	Substitution in a formula
J	Justification
P	Penalty, e.g., for no units, incorrect rounding off etc.
R	Rounding Off/Reason
AO	Answer only
NPR	No penalty for correct rounding

This marking guideline consists of 6 pages.

QUESTION 1 [23 MARKS]			
Ques.	**Solution**	**Explanation AO: FULL MARKS**	**T&L**
1.1.1	A = R33 150 + R1 625 ✓MA = R34 775 ✓A	1MA for adding correct values 1A answer (2)	F L1
1.1.2	R33 150 ÷ 26 ✓MA = R1 275,00 ✓A	1MA for dividing correct values 1A answer (2)	F L1
1.1.3	B = R7 927,86 – (R375 + R850,25 + R1 500) ✓MA = R7 927,86 – R2 725,25 = R5 202,61 ✓A	1MA for subtracting correct values 1A answer (2)	F L1
1.1.4	✓RT Percentage = $\frac{\text{R850,25}}{\text{R7 927,86}} \times 100$ ✓M = 10,72% ✓CA	1RT correct values 1M multiplying by 100 1CA answer (3)	F L1
1.2.1	R22,50 ✓✓RT	2RT reading correct value (2)	F L1
1.2.2	Vaal Plaza Main line ✓✓RT	2RT correct tollgate (2)	F L1
1.2.3	140 : 225 ✓RT 28 : 45 ✓A	1RT correct values 1A simplifying correctly (2)	F L1
1.2.4	R271,00 × 2 ✓MA = R542,00 ✓A	1MA multiplying correct rate by 2 1A answer (2)	F L1
1.3.1	Pie Chart ✓✓RT	2RT correct graph (2)	D L1
1.3.2	✓MA Percentage comedies = 100% – (21% + 6% + 24% + 11%) = 38% ✓A	1MA subtracting 1A percentage (2)	D L1
1.3.3	Number of romance = 24% × 220 ✓MA = 52,8 = 53 students ✓A	1MA multiplying correct percentage 1A correct answer Accept 52 (2)	D L1
		[23]	

QUESTION 2 [25 MARKS]			
Ques	**Solution**	**Explanation/Marks AO: FULL MARKS**	**T/L**
2.1.1	✓M ✓RT Jan 2023: R12,47 × 1,069 = R13,33 ✓A ✓MA Feb 2023: R13,33 × 1,07 = R14,26 ✓CA	1RT correct rate 1M multiplying 1A answer 1MA multiplying with correct rate 1CA answer (5)	F L3
2.1.2	Prices increased ✓A Prices still went up, but by a lower percentages/ the percentages are not negative. ✓O	1A increased 1O reason (2)	F L4
2.2.1	✓A ✓A 7 May 2023	1A 7th 1A May (2)	F L1
2.2.2	Total = R349 × 3 ✓MA = R1 047 ✓A ≈ R1 000 ✓R	1MA multiplying by 3 1A answer 1R rounding to nearest 1 000 (3)	F L2
2.2.3	Labour per hour = R6 500 ÷ 7,5 hrs ✓MA = R866,67 ✓A	1MA dividing by 7,5 1A correct answer (2)	F L2
2.2.4	Total = R5 499 + R1 047 + R1 699 + R6 500 ✓M = R14 745 × 1,15 ✓MA = R16 956,75 ✓CA	CA from 2.2.2 1M adding values 1MA multiplying by 1,15 1CA answer (3)	F L2
2.2.5	✓RT % change $= \frac{5\,795 - 5\,499}{5\,499} \times 100\%$ ✓MA = 5,38% ✓CA ∴ Valid ✓O	1RT correct values 1MA correct % calculation 1CA simplification 1O statement (4)	F L4
2.3	Block 1: 600 kWh × 229,00c = 137 400c ✓MA Block 2: 112 kWh × 278,46c = 31 187,52c ✓MA Total = 168 587,52c ÷ 100 ✓C = R1 685,88 ✓CA	1MA multiplying Block 1 1MA answer Block 2 1C divide by 100 1CA answer (4)	F L3
		[25]	

QUESTION 3 [19 MARKS]			
Ques	**Solution**	**Explanation**	**T&L**
3.1	Forty-five million eight hundred thousand dollars ✓✓RT	2RT correct value (2)	D L1
3.2	Median: ✓RT 5; 25; 47; 50; **52**; 55; 55; 80; 90 ✓MA = \$52 000 000 / \$52 million ✓A	1RT correct values 1MA method median 1A correct answer (3)	D L3
3.3	Federer total = \$121,2 – \$30,5 ✓M = \$90,7 million ✓A Total = \$130 + \$121,2 + \$115 + \$95 + \$92,8 + \$92,1 + \$90,7 + \$90 + \$83,9 ✓M = \$910,7 million / \$910 000 000 ✓CA	1M subtracting 1A simplification 1M adding 1CA simplification (4)	D L3
3.4	Mean = $\frac{\$451,7}{9}$ ✓M ✓MA = \$50,2 million / \$50 200 000 ✓CA	1M adding values 1MA dividing by 9 1CA answer (3)	D L2
3.5	Percentage = $\frac{55}{115} \times 100$ ✓MA = 47,83% ✓A	1MA correct values multiply by 100 1A simplification (2)	D L2
3.6	70 : 90 ✓RT 7 : 9 ✓CA	1RT correct values 1CA simplification of ratio (2)	D L2
3.7	Probability = $\frac{4}{9}$ ✓RT ✓RT = 0,444 ✓CA	1RT numerator 1RT denominator 1CA rounding to 3 decimal places (3)	P L2
		[19]	

QUESTION 4 [33 MARKS]			
Ques	**Solution**	**Explanation/Marks**	**T&L**
4.1.1	Dependent: Amount in Rands ✓RT Independent: Number of curry bunnies ✓RT	1RT dependent 1RT independent (2)	F L1
4.1.2	R250 ÷ 10 ✓MA = R25,00 ✓A	1MA dividing by 10 1A simplification (2)	F L1
4.1.3	✓RT ✓RT Total Expenses = 450 + (10 × number of curry bunnies)	1RT fixed cost 1RT cost per curry bunny (2)	F L2
4.1.4		1A starting point 1A 2 correct points 1A end point (3)	F L2
4.1.5	Profit ONE month = R5 000 – R2 450 = R2 550 ✓A Profit FOUR months = R2 550 × 4 ✓MA = R10 200 ✓CA ∴ Valid ✓O	1A profit one month 1MA profit 4 months 1CA answer 1O statement (4)	F L4
4.2.1	A = 20 + 13 ✓RT = 33 ✓A	1RT adding correct values 1A answer (2)	D L2
4.2.2	15:00 – 17:59 ✓✓A	2A correct answer (2)	D L2
4.2.3	18:00 – 20:59 ✓✓RT	2RT correct time interval (2)	D L2

Ques	Solution	Explanation/Marks	T&L
4.2.4	6,5 ℓ × 77 = 500,5 ℓ ✓MA Cost = 500,5 ℓ × R21,92 ✓M = R10 970,96 ✓CA	1MA calculating litres 1M multiplying 1CA answer (3)	D L3
4.2.5	Probabilty = $\frac{32}{77}$ ✓RT ✓RT	1RT numerator 1RT denominator (2)	P L2
4.3.1	BANK B ✓RT Interest amount is the same for each year. ✓O	1RT correct bank 1O statement/opinion (2)	F L2
4.3.2	BANK A: R1 277,29 × 1,085 ✓MA = R1 385,86 ✓A Difference = R1 385,86 – R1 340 ✓M = R45,86 ∴ Valid ✓O	1MA multiplying by rate 1A simplification 1M difference 1O statement (4)	F L4
4.3.3	68,49 × 19,83 ✓MA = R1 358,16 ✓A ∴ Yes, she will have enough. ✓O	1MA multiplying by exchange rate 1A simplification 1O statement (3)	F L4
		[33]	
		TOTAL: 100	