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Province of the EASTERN CAPE EDUCATION

NATIONAL SENIOR CERTIFICATE

GRADE 11

NOVEMBER 2024

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	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
J	Justification

This marking guideline consist of 6 pages.

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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 incorrect item presented.

QUESTION 1 [26 MARKS]			
Ques.	**Solution**	**Explanation**	**T&L**
1.1.1	Canva ✓✓A	2 RT correct service provider **Accept** Samira Hadid (2)	F L1
1.1.2	A = \$127 x 4 ✓MA = \$508 ✓A	1 MA multiplying correct price by 4 1 A answer (2)	F L1
1.1.3	Invoice is a list of goods or services rendered as well as a statement of the amount. ✓✓O	2O explanation (2)	F L1
1.1.4	B = \$369 ÷ \$123 ✓MA = 3 ✓A	1MA dividing the correct values 1A answer (2)	F L1
1.1.5	5 March 2024 ✓✓A	2A correct date (2)	F L1
1.1.6	Total : R1,00 = \$0,053 ? = \$1000 ? = \$1000 × R1,00 ✓MA \$0,053 ? = R18 867,92 ✓CA	1MA correct exchange rate 1CA answer (2)	F L1
1.2.1	Constant/fixed relationship ✓✓A	2A correct answer (2)	F L1
1.2.2	R1 200,00 ✓✓RT	2RT (2)	F L1
1.2.3	(a) C = 2 ✓✓A	2A correct number **Accept 3** (2)	F L1
	(b) D = R950 ✓✓RT	2RT correct amount (2)	F L1
1.3.1	29 + 23 + 3 + 4 = 59 learners ✓✓A	2A correct total (2)	D L1
1.3.2	% fail = 29/59 × 100 ✓MA = 49,15 ✓CA	1 MA correct percentage 1CA answer (2)	D L1
1.3.3	0 – 29 ✓✓A	2A correct level (2)	D L1
		[26]	

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QUESTION 2 [26 MARKS]			
Ques.	**Solution**	**Explanation**	**T&L**
2.1.1	Budget is a financial plan outlining income and expenses over a period of time. ✓✓O **OR** It is a tool to help manage finances, achieve financial goals, and to make informed decisions about spending and saving. ✓✓O	2O correct explanation (2)	F L1
2.1.2	31 029 965: Thirty-one million and twenty-nine thousand, nine hundred and sixty-five. ✓✓A	2A correct (2)	F L1
2.1.3	% increase = $\frac{44\ 104\ 248 - 42\ 441\ 422}{42\ 441\ 422}$ ✓RT ×100 ✓MA ✓MA = 3,92 = 4% ✓CA	1RT correct values 1MA multiplying by 100 1MA correct denominator 1CA answer **PR** (4)	F L3
2.2.1	Cost = R50 + R12,00 × (No of km travelled – 3) ✓✓A	2A correct formula (2)	F L2
2.2.2	Daniel: R50,00 + R12,00 × (No of km used – 3) = R50,00 + R12,00 × (80 km –3) ✓SF = R50,00 + R12,00 × (77 km) ÷ 1 km = R50,00 + R924,00 ✓A = R974,00 ✓CA Jerry: R14,00 × R80,00 ✓A = R1 160,00 ✓CA His statement is incorrect. ✓J	1SF substitution to a formula 1A simplification 1CA answer for Daniel 1A multiplying correct amounts 1CA answer for Jerry 1J justification (6)	F L4
2.2.3	Distance = R50,00 + R12,00 × (No of km travelled –3) R1 214,00 = R50,00 + R12,00 × (D –3) ✓SF R1 214,00 – R50,00 = R12,00 × (D – 3) R1 164,00 = R12,00 × (D – 3) ✓S $\frac{R1\ 164,00}{R12,00}$ = D – 3 97 = D – 3 ✓S D = 100 ✓CA	1 SF substitution to a formula 1S simplification 1S simplification 1 CA answer (4)	F L3

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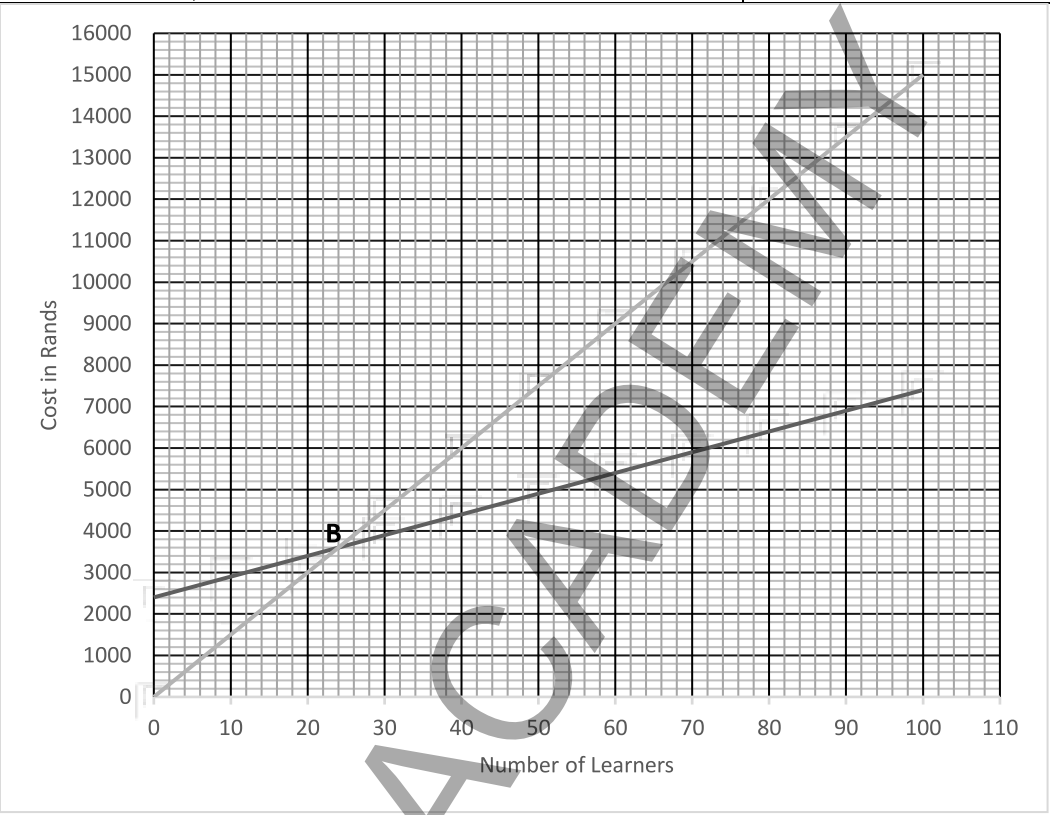
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2.3	Discount on school fees = R48 800,00 × $\frac{10}{100}$ ✓MA = R4 880,00 ✓A Discount on hostel fees = R66 800 × $\frac{5}{100}$ ✓MA = R3 340,00 ✓A Total Discount = R4 880,00 + R3 340,00 ✓A = R8 220,00 ✓CA	1MA multiplying by a correct percentage 1A simplification 1MA multiplying by correct percentage 1A simplification 1A adding correct amounts 1CA answer (6)	F L4
		[26]	

QUESTION 3 [17 MARKS]			
Ques.	**Solution**	**Explanation**	**T&L**
3.1	India ✓✓**A**	2A correct country (2)	D L2
3.2	103 317 638 ; 15 400 547 ; 15 400 547 ; 12 862 740 ; 12 615 365 ; 8 485 749 ; 6 692 796 ; 4 684 727 ; 3 740 280 ; 2 713 117 ; 2 544 102 ; 2 505 605 ; 1 854 162 ✓✓M	2M arranging in correct order (2)	D L2
3.3	Difference = 103 317 638 – 1 854 162 ✓RT = 101 463 478 ✓CA	1RT correct values 1CA answer (2)	D L2
3.4	5 ✓✓RT	2RT (2)	D L1
3.5	Thailand ✓✓A	CA 3.2 2 A answer (2)	D L2
3.6	Bar Graph /Line graph ✓✓A	2A Type of graph (2)	D L2
3.7	Probability = $\frac{9}{13}$ ✓M ✓M = 0,69 ✓CA	1M fraction 1M division 1 CA answer (3)	P L2
3.8	3 countries ✓✓A	2A answer (2)	D L2
		[17]	

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Question 4 [31marks]			
Que.	**Solutions**	**Explanation**	**T&L**
4.1.1	Inflation ✓✓A	2A answer (2)	F L1
4.1.2	Cost = R2 400,00 + R50,00 × number of learners ✓SF = R2 400,00 + R50,00 × 100 ✓MA = R2 400,00 + R5 000,00 ✓M = R7 400,00	1 SF formula 1MA multiplying by 100 1M addition (3)	F L3
4.1.3			
	1A starting point (0;0) ✓ 1A end point (100;15 000) ✓ 1A straight line ✓	(3)	F L2
4.1.4	24 learners buying 24 t-shirt indicated as **B** on the graph ✓✓A	2A correct number of learners indicated on the graph (2)	F L2

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4.1.5	End of Year One: $= R7\ 500 + \frac{10,5}{100} \times R7\ 500$ $= R7\ 500 + R787,5$ $= R8\ 287,50$ End of Year Two: $= R8\ 287,50 + \frac{10,5}{100} \times R8\ 287,50$ $= R8\ 287,50 + R870,1875$ $= R9\ 157,6875$ End of Year Three: $= R9\ 157,6875 + \frac{10,5}{100} \times R9\ 157,6875$ $= R9\ 157,6875 + R961,5571875$ $= R10\ 119,24$ Statement is valid **OR** ✓M ✓M ✓M ✓A Balance $= R7\ 500 \times 1,105 \times 1,105 \times 1,105 = R10\ 119,24$ Statement is valid ✓O	✓M ✓CA ✓CA ✓CA ✓O	1 M calculating interest 1CA balance for 1st year 1 CA balance for 2nd year 1 CA balance for 3rd year 1O opinion 3 M multiplication 1 A answer 1 O opinion (5)	F L3
4.2.1	Discreet ✓✓A		2A answer (2)	D L1
4.2.2	✓A $37 = \frac{1588 + F}{44}$ ✓M ✓A $1588 + F = 1628$ ✓A $F = 1628 - 1588$ $F = 40$ ✓		1M adding 1A substituting 37 1A dividing by 44 1A multiplying 37 by 44 1CA answer (5)	D L3
4.2.3	12 13 14 15 15 17 18 21 21 22 23 24 24 26 26 26 30 31 32 33 37 38 39 39 40 40 40 41 41 41 43 43 49 49 50 51 53 54 55 60 62 69 64 86 ✓M Range = 86 – 12 ✓M = 74 ✓CA Statement is not correct the range is big, so the data is far apart from each other. ✓J		1M arranging in order of descending or ascending/ **OR** RT correct values 1M calculating range 1CA answer 1J correct justification (4)	D L3
4.2.4	28 learners ✓✓A		2A correct answer (2)	D L1
4.2.5	$P = \frac{1}{44}$ ✓A = 0,023 ✓CA		1A numerator 1A denominator 1CA answer (3)	P L2
			[31]	
			TOTAL: 100	

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