



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.

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	$A = \$127 \times 4$ ✓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 \div \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 ? = $\frac{\$1000 \times R1,00}{\$0,053}$ ✓MA ? = 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	$\% \text{ fail} = \frac{29}{59} \times 100$ ✓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
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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 $= \frac{44\,104\,248 - 42\,441\,422}{42\,441\,422} \times 100$ ✓RT ✓MA $= 3,92$ $= 4\% \text{ ✓CA}$	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) $= R50,00 + R12,00 \times (80 \text{ km} - 3) \text{ ✓SF}$ $= R50,00 + R12,00 \times (77 \text{ km}) \div 1 \text{ km}$ $= R50,00 + R924,00 \text{ ✓A}$ $= R974,00 \text{ ✓CA}$ Jerry: R14,00 × R80,00 ✓A $= R1\,160,00 \text{ ✓CA}$ 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) $R1\,214,00 = R50,00 + R12,00 \times (D - 3) \text{ ✓SF}$ $R1\,214,00 - R50,00 = R12,00 \times (D - 3)$ $R1\,164,00 = R12,00 \times (D - 3) \text{ ✓S}$ $\frac{R1\,164,00}{R12,00} = D - 3$ $97 = D - 3 \text{ ✓S}$ $D = 100 \text{ ✓CA}$	1 SF substitution to a formula 1S simplification 1S simplification 1 CA answer (4)	F L3

2.3	Discount on school fees = $R48\,800,00 \times \frac{10}{100}$ ✓MA = R4 880,00 ✓A Discount on hostel fees = $R66\,800 \times \frac{5}{100}$ ✓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]	

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

4.1.5	<p>End of Year One:</p> $= R7\ 500 + \frac{10,5}{100} \times R7\ 500$ <p style="text-align: right;">✓M</p> $= R7\ 500 + R787,5$ $= R8\ 287,50$ <p style="text-align: right;">✓CA</p> <p>End of Year Two:</p> $= R8\ 287,50 + \frac{10,5}{100} \times R8\ 287,50$ $= R8\ 287,50 + R870,1875$ $= R9\ 157,6875$ <p style="text-align: right;">✓CA</p> <p>End of Year Three:</p> $= R9\ 157,6875 + \frac{10,5}{100} \times R9\ 157,6875$ $= R9\ 157,6875 + R961,5571875$ $= R10\ 119,24$ <p style="text-align: right;">✓CA</p> <p>Statement is valid</p> <p style="text-align: right;">✓O</p> <p>OR</p> <p style="text-align: right;">✓M ✓M ✓M ✓A</p> <p>Balance = $R7\ 500 \times 1,105 \times 1,105 \times 1,105 = R10\ 119,24$</p> <p>Statement is valid ✓O</p>	<p>1 M calculating interest</p> <p>1 CA balance for 1st year</p> <p>1 CA balance for 2nd year</p> <p>1 CA balance for 3rd year</p> <p>1 O opinion</p> <p>3 M multiplication</p> <p>1 A answer</p> <p>1 O opinion (5)</p>	<p>F L3</p>
4.2.1	Discreet ✓✓A	2A answer (2)	D L1
4.2.2	<p style="text-align: center;">✓A</p> $37 = \frac{1588 + F}{44}$ <p style="text-align: center;">✓M</p> <p style="text-align: center;">44 ✓A</p> <p>$1588 + F = 1628$ ✓A</p> <p>$F = 1628 - 1588$</p> <p>$F = 40$ ✓</p>	<p>1M adding</p> <p>1A substituting 37</p> <p>1A dividing by 44</p> <p>1A multiplying 37 by 44</p> <p>1CA answer (5)</p>	D L3
4.2.3	<p>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</p> <p>Range = $86 - 12$ ✓M</p> <p style="text-align: center;">$= 74$ ✓CA</p> <p>Statement is not correct the range is big, so the data is far apart from each other. ✓J</p>	<p>1M arranging in order of descending or ascending/ OR RT correct values</p> <p>1M calculating range</p> <p>1CA answer</p> <p>1J correct justification (4)</p>	D L3
4.2.4	28 learners ✓✓A	2A correct answer (2)	D L1
4.2.5	<p>$P = \frac{1}{44}$ ✓A</p> <p style="text-align: center;">44 ✓A</p> <p>$= 0,023$ ✓CA</p>	<p>1A numerator</p> <p>1A denominator</p> <p>1CA answer (3)</p>	P L2
		[31]	
		TOTAL: 100	