FINAL

KWAZULU-NATAL PROVINCE
EDUCATION
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 10

MATHEMATICAL LITERACY

MARCH 2025

MARKING GUIDELINE

MARKS: 75

SYMBOL	EXPLANATION
MA	Method with accuracy
MCA	Method with consistent accuracy
CA	Consistent accuracy
A	Accuracy (Answer)
C	Conversion
S	Simplification
RT	Reading from a table/ graph/ diagram
SF	Correct substitution in a formula
O	Opinion/ reason/deduction/example
P	Penalty e.g., for no units, incorrect rounding off, etc.
NPR	No penalty for correct rounding
NPU	No penalty for omitting unit, but wrong unit is penalised
AO	Answer only

This marking guideline consists of 5 pages.

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NOTE:

- If a learner answers a question TWICE, only mark the FIRST attempt.
- If a learner 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 or breakdown.
- If the learner presents extra solution when reading from the graph, table, layout plan and map, then penalise for every extra item presented.
- Rounding is an independent mark.
- General principle of making, if the candidate makes one mistake one mark is deducted.
- A conclusion mark can only be given 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] ANSWER ONLY FULL MARKS			
Q	**Solution**	**Explanation**	**T&L**
1.1.1	Saturday✓✓RT	2RT correct day (2)	B L1 E
1.1.2	Observation✓✓A	2A correct method **ACCEPT Survey** (2)	D L1 M
1.1.3	Range = 140 −60✓MA = 80 ✓A	1MA subtracting correct values 1A simplification (2)	D L1 E
1.1.4	3 days✓✓A	2A correct answer (2)	B L1 E
1.1.5	Independent = days of the week✓A Dependent = number of people✓A	1A correct answer 1A correct answer (2)	B L1 E
1.1.6	Discrete✓✓A	2A correct option (2)	D L1 E
1.1.7	Dozen = $\frac{60}{12}$✓MA = 5✓A	1MA dividing correct values 1A simplification (2)	B L1 M
1.2.1	= 5 000 x 1000✓C = 5 000 000 millilitres ✓A	1C multiplying by 1000 1A correct answer (2)	B L1 E

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1.2.2	Rate✓✓A	2A correct option (2)	B L1 E
1.2.3	Number of trips $=\frac{5\,000}{2\,500}$✓MA $=2$ ✓A	1MA dividing correct values 1A simplification (2)	B L1 M
			[20]

QUESTION 2[17 MARKS]			
Q	**Solution**	**Explanation**	**T&L**
2.1.1	Three hundred and forty✓✓A	2A correct amount in words (2)	B L1 E
2.1.2	300✓✓R	2R correct rounding (2)	B L2 M
2.2.1	Linear pattern✓A ✓O As the number of days increase the number of scripts marked also increases✓O	1A correct answer 1O number of days increase 1O number of scripts marked increases (3)	B L3 M
2.2.2	Number of scripts marked $=\frac{3}{4}$ x 200✓MA $=150$✓A The statement is valid✓O **OR** Number of scripts marked = 75% x 200 ✓MA = 150✓A The statement is valid✓O **OR** $\frac{150}{200}$✓RT✓MA $=\frac{3}{4}$ The statement is valid✓O	1MA multiplying correct value 1A simplification 1O conclusion 1MA multiplying 75% by 200 1A simplification 1O conclusion (3) 1RT reading correct values 1MA dividing correct values 1O conclusion (3)	B L4 M
2.2.3	✓RT 50: 340✓MA 5: 34✓A	1RT correct values 1MA correct order 1A simplification (3)	B L2 M

2.3	Number of scripts marked per day by 4 markers = 50 x 4 = 200✓A Number of days to mark the scripts $=\frac{340}{200}$✓MA = 1,7✓CA ≈ 2 days✓R	1A simplification 1MA dividing correct values 1CA simplification 1R rounding (4)	B L3 D
			[17]

QUESTION 3 [20 MARKS]			
Q	**Solution**	**Explanation**	**T&L**
3.1	Xolani ✓A 50 ✓A	1A correct name 1A correct heart rate (2)	D L1 D
3.2	77✓✓A	2A correct modal (2)	D L2 E
3.3	Mean (Group 1) $=\frac{91+96+77+77+71+72}{6}$✓MA ✓MA $=\frac{484}{6}$ = 80,67✓CA	1MA concept of a mean 1MA dividing 6 1CA simplification (3)	D L2 M
3.4	Total number = 4✓✓A	2A correct number (2)	D L1 E
3.5	Median = 50, 52, 84, 90, 105, 118✓MA $=\frac{84+90}{2}$ ✓MA = 87✓A	1MA arranging values correctly 1MA dividing correct values 1A simplification (3)	D L2 M
3.6	Median ✓A Not affected by the outlier✓O	1A correct average 1O reason (2)	D L4 M
3.7	Two of the six boys tested have the lowest heart rate reading ✓✓O	2O correct explanation (2)	D L4 M
3.8	Percentage Sample ✓RT $=\frac{12}{27}$ x 100% ✓MA ✓RT = 44,44% ✓A	1RT numerator 1MA multiplying by 100% 1RT denominator 1A simplification (4)	D L3 M
			[20]

QUESTION 4[18 MARKS]			
Q	**Solution**	**Explanation**	**T&L**
4.1	13:00✓✓A	2A correct answer (2)	D L2 E
4.2	Number of boys in grade 8 = 9✓RT Number of boys in grade 9 = 14✓✓RT Difference = 14 – 9✓MA = 5	1RT number of boys in grade 8 2RT number of boys in grade 9 1 MA subtracting correct values (4)	D L2 M
4.3	Number of students ✓RT = 50 – 12✓MA = 38✓CA	 1RT reading correct values 1MA subtracting correct values 1CA correct answer (3)	D L2 M
4.4	✓MA 143 learners out of 250 learners drink alcohol which is ✓MA 57,2% and above the average SA teenagers in all School who drink alcohol indicates a serious concern.✓O	1MA calculating 143 1MA for 57,2 1O correct explanation (3)	D L4 D
4.5	✓RT = $\frac{80}{250}$ x 100%✓MA = 32%	1RT correct values 1MA multiplying by 100% (2)	D L3 D
4.6	Peer pressure✓✓O Stress from studies✓✓O Ill-discipline✓✓O Youth experimenting✓✓O Duplicating elders' behaviour✓✓O Eco-social challenges✓✓O Lack of parental care/guidance✓✓O	2O each correct explanation for maximum two answers (4)	D L4 D
			[18]
			TOTAL MARKS:75

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