education
MPUMALANGA PROVINCE
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE



BOHLABELA

MATHEMATICAL LITERACY
GRADE 10
MARKING GUIDELINES

MARKS: 50

Symbol Explanation	Symbol Explanation
M	Method
M/A	Method with accuracy
CA	Consistent accuracy
A	Accuracy
C	Conversion
S	Simplification
RT/RG/RD	Reading from table/graph/diagram
SF	Correct substitution in formula
O	Opinion/Explanation
P	Penalty, e.g. for no units, incorrect rounding off, etc.
R	Rounding off
AO	Answer only
NPR	No penalty for rounding
MCA	Method with constant accuracy
J	justification

These marking guideline consists of 5 pages

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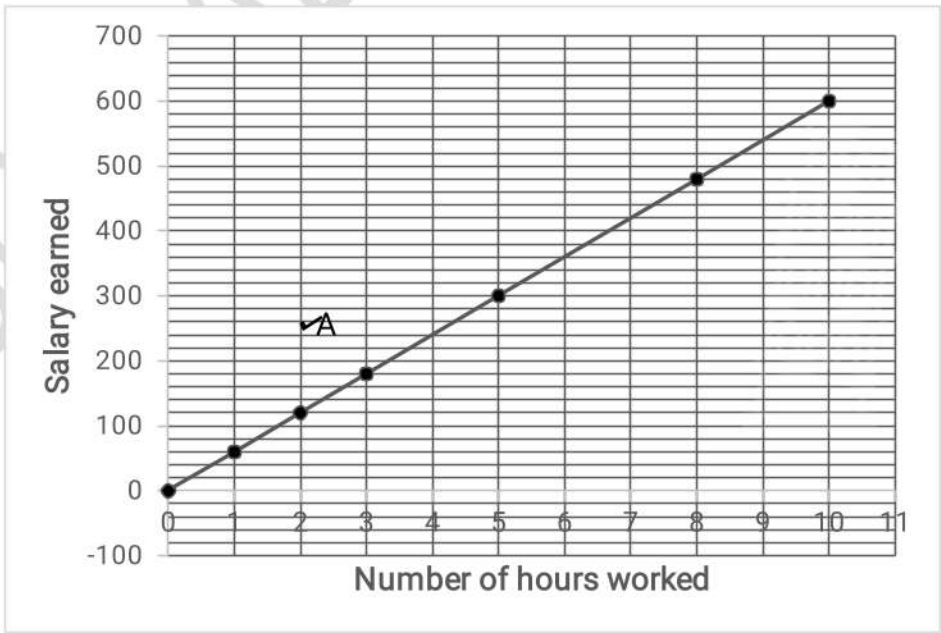
- If a candidate answers a question TWICE, only mark the FIRST attempt.
- If a candidate has crossed out (cancelled) an attempt to a question and NOT redone the solution, mark the crossed out (cancelled) version.
- If the candidate presents any extra solution when reading from a graph, table, then penalize for every extra incorrect item presented.

QUESTION1 [19 MARKS]			
Ques	**Solution**	**Explanation**	**T & L**
1.1.1	TV ✓✓RT	2RT correct reading from the catalogue (2)	F L1 E
1.1.2	✓MA (R28,99 × 2) + ✓RT R94,99 + R84,99 = R237,96 ✓A 	1MA multiplying correct values 1RT all values 1A simplification **AO** (3)	F L1 M
1.1.3	Eighty four rand ninety nine cents ✓✓A	**CA from 1.1.2** 2A correct answer (2)	F L1 E
1.1.4	Original price = R94,99 + R5 = R99,99 ✓MA %discount = $\frac{5}{99,99} \times 100$ ✓M = 5,00050005% = 5% ✓CA	1MA adding correct values 1M % calculation 1CA simplifying (3)	F L3 E
1.2	Supermarket A = $\frac{20}{4.5}$ ✓MA = R4,44 /kg Supermarket B = $\frac{8}{1.8}$ ✓MA = R4,44/kg✓MA	1M Dividing by 4,5 1M dividing by 1.8 1A Unit price per kg supermarket B (3)	F L2 E
1.3.1	Single Bar graph ✓✓A	2A correct graph **Accept Bar graph** (2)	D L1 E

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1.3.2	Nescafe Ricoffy ✓✓RT	2RT correct brand (2)	D L1 E
1.3.3	500 ✓✓A	2A correct answer (2)	D L1 E
		[19]	

QUESTION 2 [20 MARKS]			
Ques	**Solution**	**Explanation**	**T & L**
2.1.1	A = 180 ✓✓A	2A correct answer (2)	F L2 E
2.1.2	No. of hours worked ✓✓A	2A correct answer (2)	F L1 E
2.1.3	His earnings increase ✓✓A	2A correct answer (2)	F L2 E
2.1.4	Salary(R) = 60×n ✓A; where n represents the number of hours worked ✓A	1A 60 x n 1A explanation (2)	F L2 E
2.1.5			F L2 M

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	1A (1:60) 1A any other point 1CA joining points 1A (10:600) (4)		
Ques	**Solution**	**Explanation**	**T and L**
2.2.1	5 dozen = 12 loaves x 5 = 60 loaves MA $\frac{1}{2}$ dozen = 6 loaves MA $5\frac{1}{2}$ dozen bread loaves = 66 loaves MCA 2 boxes = 24 muffins x 2 = 48 muffins MA Total items = 114 CA	1MA multiplying 12 by 5 1MA dozen concept 1MCA total no. of loaves 1MA total no. of muffins 1CA answer (5)	F L3 D
2.2.2	1kg = R12,00 ½ kg flour = R6,00 MA ½ kg flour = 1 loaf $5\frac{1}{2}$ dozen bread loaves = 66 loaves MCA 66 x ½ kg flour = 66 x R6,00 = R396,00 His claim is correct CA **OR** $5\frac{1}{2}$ dozen bread loaves = 66 loaves 66 x ½ kg flour = 33kg MA MCA	**CA from 2.2.1** 1MA dividing R12 by 2 1MCA multiplying correct values 1CA answer 1MA multiplying 66 by ½ kg 1MCA multiplying by	F L4 D

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	33kg x R12,00 /kg = R396,00 His claim is correct CA	12 1CA answer (3)	
		[20]	



QUESTION 3 [11 MARKS]			
Ques	**Solution**	**Explanation**	**T and L**
3.1	Numerical AA	2A correct answer (2)	D L1 E
3.2	35 RT	2RT correct mode (2)	D L1 E
3.3	29; 30; 30; 31; 31; 32; 32; 32; 32; 35 RT Median = $\frac{31+32}{2}$ M = 31,5 CA	1RT all values 1M concept 1CA answer (3)	D L2 M
3.4	Mean = $\frac{30+31+32+33+33+34+34+35+35+35}{10}$ MA = $\frac{332}{10}$ MA = 33,2 A His statement is incorrect CA	1MA adding all values 1MA dividing by 10 1A simplifying 1CA opinion (4)	D L4 E
		[11]	

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