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EDUCATION

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O.R TAMBO INLAND DISTRICT

GRADE 10

MARCH 2025

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MATHEMATICAL LITERACY MARKING GUIDELINE

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MARKS: **50**

Symbol	Explanation
M	Method
MA	Method with Accuracy
CA	Consistent Accuracy
A	Accuracy
C	Conversion
D	Define
J	Justification/Reason/Explain
S	Simplification
RD	Read from the table OR a graph
F	Choosing the correct formula
SF	Substitution in formula
O	Opinion
P	Penalty, e.g for no units, incorrect rounding
R	Rounding off
AO	Answer only
NPR	No penalty for rounding off OR omitting units

This marking guideline consists of 4 pages including Analysis grid.

QUESTION 1 [4] FINANCE AND DATA HANDLING			
QUES.	**SOLUTION**	**EXPLANATION**	**LEVEL**
1.1	4 560 008 Four million five hundred and sixty thousand and eight. ✓✓A	**2 A answer**	**L1**
1.2.1	$3^3 + \sqrt{180 - 36}$ $= 27 + \sqrt{144}$✓S $= 27 + 12$✓M $= 39$ ✓A	1 S simplification 1 M addition 1 A answer	**L2**
1.2.2	$3[40 + (-4)^2] - 306 \div 6$ $= 3(40 + 16) - 51$✓S $= 3(56) - 51$✓M $= 168 - 51$ $= 117$A ✓A	1 S simplification 1 M subtraction 1 A answer	**L2**
1.3.1	5 423✓✓A	2 A answer	**L1**
1.3.2	250 600 040✓✓A	2 A answer	**L1**
1.4.1	56 500✓✓A	2 A answer	**L1**
1.4.2	0,036✓✓A	2 A answer	**L1**
QUESTION 2 [10] FINANCE			
2.1	8 : 12✓RT $\frac{8}{4}$; $\frac{12}{4}$ 2 : 3 ✓ A	1 RT correct values 1 A answer	**L2**
2.2	$2 + 3 = 5$✓M Julia: $\frac{3}{5} \times$ R5 000✓S = R3 000✓A Peter : $\frac{2}{5} \times$ R5 000 = R2 000✓A Difference: R3 000 − R2 000 = R1 000✓A	1 M addition 1 S simplification 3 A answers	**L4**
2.3	$\frac{R6\,000 - R5\,000}{R5\,000\text{✓RT}}$✓S × 100✓M = 20%✓A	1 S simplification 1 RT correct value 1 M multiplication 1 A answer	**L3**
2.4	12✓RT + 2✓M = 14✓A	1 RT 12 1 M addition 1 A answer	**L2**
QUESTION 3 [19] FINANCE			
3.1	11 cars ✓✓A	2 A answer	**L1**
3.2	*a rate* ✓✓A	2 A answer	**L1**

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3.3	*numerical* ✓✓A	2 A answer	**L1**
3.4	81✓✓	2 A answer	**L2**
3.5	56 61 64 66 73 78 81 81 82 90 109✓M Median = 78✓A	1 M arranging in ascending order 1 A answer	**L2**
3.6	5 drivers ✓✓A	2 A answer	**L4**
3.7	Range = $Max - Min$ = 109 − 56✓RT✓M = 53✓A ∴ *Not valid claim.* ✓O	1 RT correct values 1 M subtraction 1 A answer 1 O opinion	**L3**
3.8	Mean = $\frac{56+61+64+66+73+78+81+81+82+90+109}{11}$✓M = $\frac{841}{11}$✓M = 76,45✓CA ≈ 76✓R	1 M addition 1 M division by 11 1 CA answer 1 R rounding off	**L2**
	TOTAL = 50 MARKS		

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ORTID MATHEMATICAL LITERACY G10 CONTROLLED TEST TERM 1 ANALYSIS GRID					
QUESTION	**LEVELS**				**TOTAL**
	1	**2**	**3**	**4**	
1.1	2				2
1.2.1		2			2
1.2.2		2			2
1.3.1	2				2
1.3.2	2				2
1.4.1	2				2
1.4.2	2				2
2.1		2			2
2.2				5	5
2.3			4		4
2.4		3			3
3.1	2				2
3.2	2				2
3.3	2				2
3.4	2				2
3.5		2			2
3.6				2	2
3.7			4		4
3.8		4			4
Marks	20	15	8	7	50
Actual %	40%	30%	16%	14%	100
Expected %	**30%**	**30%**	**20%**	**20%**	**100**

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