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Province of the EASTERN CAPE EDUCATION

OR TAMBO INLAND DISTRICT

NATIONAL SENIOR CERTIFICATE

GRADE 10

MATHEMATICAL LITERACY

CONTROLLED TEST - MARKING GUIDELINES

TERM 3 – SEPTEMBER 2023

TOTAL MARK 50

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

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QUESTION 1 [16]			
QSTN	**Solution**	**Explanation**	**Level**
1.1	Budget is plan or list of expected income and expenditure✓✓	2 RT answer	L 1 (2)
1.2	$\frac{R31\ 500}{R150}$ ✓ $= 210$✓	1 M division 1 A answer	L 1 (2)
1.3	$A + R30\ 000 + R5\ 450 = R40\ 000$✓ $A = R40\ 000 - R35450$ $A = R4\ 550$✓	1 M addition 1 A answer	L 1 (2)
1.4	Gifts✓✓	2 A answer	L1 (2)
1.5	B = R580 + R7 000 + R4 215 + R900 + R430✓ $B = R13\ 125$✓	1 M addition 1 A answer	L1 (2)
1.6	$\frac{580}{13\ 125}$ ✓ $\times 100$✓ $= 4{,}4190$ $= 4{,}4\%$✓	1 M division 1 M multiplication by 100 1 A answer	L2 (3)
1.7	R40 000 – R13 125✓ = R26 875✓ The school made a Profit✓	1 S subtraction 1 A answer 1 O opinion	L2 (3) **[16]**
QUESTION 2 [8]			
Step 1: Place your fingernail in the cover release opening, lift the back cover of the phone up (1) and pull it back (2) to remove it.✓✓ Step 2: Lift out the battery by slipping your finger under the side and lifting it up (1) and out (2) of the phone. ✓✓ Step 3: Slide the sim card into the SIM card socket inside the phone. Make sure that the card's gold contacts face downwards. ✓✓ Step 4: Replace the battery by slipping it back into the phone (1) and pressing it down. ✓✓		8 A answer	L2 (8)
QUESTION 3 [7]			
Lengthwise = $\frac{2{,}01\times100}{33{,}5}$ ✓ $= 6$ ✓ Widthwise = $\frac{0{,}69\times100}{23} = 3$ ✓ Height-wise = $\frac{0{,}52\times100}{13} = 4$✓ No of small boxes = $6 \times 3 \times 4$✓ $= 72$ Valid statement ✓		1 C conversion 1 M division 1 A answer 1 A answer 1 A answer 1 M multiplication 1 O opinion	L4 (7)

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QUESTION 4 [9]			
4.1	Shows the design and dimensions of the inside of the house from top view. ✓ ✓	2 D definition	L1 (2)
4.2	7: 4✓✓	2 A ratio	L1 (2)
4.3	NW✓✓	2 A answer	L1 (2)
4.4	Area = **length** × **breadth** $A = 7m \times 4{,}4m$✓✓ $A = 30{,}8m^2$✓	1 RT correct values 1 M multiplication 1 A answer	L2 (3)
			[9]
QUESTION 5 [10]			
5.1	$P = 3 \times 5{,}6$✓ $= 16{,}8m$✓ $c = \frac{1}{2} \times 2 \times 3{,}142 \times 2{,}8$✓✓ $= 8{,}7976m$✓ $total\ fence = 16{,}8m + 8{,}7976m = 25{,}9976m$.✓	1 M multiplication by 3 1 A answer 1 A radius 1 M multiplication 1 A answer 1 CA answer	L3 (6)
5.2	Number of rolls $\frac{25{,}5976m}{5m}$✓ $= 5{,}11952$ $\approx 6\ rolls$✓ $Cost = 6 \times R2750$✓ $= R16\ 500$✓	1 M division 1 A answer 1 M multiplication 1 A answer	L3 (4)
			[10]
	TOTAL MARK		**[50]**

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G10 MATHEMATICAL LITERACY CONTROLLED TEST TERM 3 ANALYSIS GRID					
	LEVELS				
QUESTION	**1**	**2**	**3**	**4**	**TOTAL**
1.1	2				2
1.2	2				2
1.3	2				2
1.4	2				2
1.5	2				2
1.6		3			3
1.7		3			3
2		8			8
3				7	7
4.1	2				2
4.2	2				2
4.3	2				2
4.4		3			3
5.1			6		6
5.2			4		4
Marks	16	17	10	7	50
%	32	34	20	14	100%
Expected %	**30%**	**30%**	**20%**	**20%**	**100%**

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