Province of the
EASTERN CAPE
EDUCATION

O.R TAMBO
INLAND DISTRICT

GRADE 10

MATHEMATICAL LITERACY
PAPER 1
MEMORANDUM

JUNE 2022

MARKS: 50

Codes	Explanation
M	Method
MA	Method with Accuracy
CA	Consistent Accuracy
A	Accuracy
C	Conversion
D	Define
J	Justification / Reason / Explain
S	Simplification
RT / RD / RG	Reading 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, for no units, incorrect rounding-off, etc.
R	Rounding-off
NP	No penalty for rounding-off OR omitting units

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This Memorandum consists of 4 pages including the cover page and grid analysis.

QUESTION 1				
QN	**Solution**	**Explanation**	**Marks**	**TL**
1.1.1	R54 064 756	✓ ✓ A	(2)	TL1
1.1.2	Fifty-four million and sixty-four thousand seven hundred and fifty-six rand	✓✓A	(2)	TL1
1.1.3	3 + 2 + 1 = 6 $X: \frac{3}{6} \times 54\,064\,756 = R27\,032\,378$ $Y: \frac{2}{6} \times 54\,064\,756 = R18\,021\,585$ $Z: \frac{1}{6} \times 54\,064\,756 = R9\,010\,793$	✓M addition ✓M multiply ✓A X amount ✓A Y amount ✓A Z amount	(5)	TL3
1.1.4	Capacity of the orphanage homes (or any other relevant answer)	✓✓O opinion	(2)	TL2
1.2	% increase = $\frac{New\ price - Old\ price}{Old\ price} \times 100$ $= \frac{219{,}00 - 199{,}95}{199{,}95} \times 100$ $= 9{,}53\%$	✓SF substitution ✓ M multiply ✓ A answer	(3)	TL4
				[14]

QUESTION 2				
2.1	80 : 120 2 : 3	✓✓RT ✓A	(3)	TL1
2.2.1	No of teaspoons $= \frac{750ml}{5ml}$ $= 150$	✓M division ✓A	(2)	TL2
2.2.2	Sweet chilli % $= \frac{120ml}{750ml} \times 100$ $= 16\%$	✓M ✓A	(2)	TL2
2.2.3	90min ÷ 60 = 1,5hours 24 wings : 1,5 hours Time to cook 72 sticky chicken wings $= \frac{74}{24} \times 1{,}5\ hours$ = 4	✓ M ✓MA ✓CA	(3)	TL4
				[10]

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QUESTION 3				
3.1	6kl = R0,00 6kl x R8,82 = R52,92 8kl x R10,15 = R81,20 5kl x R12, 18 = R60,90 Cost of 25kl water =R52,92 + R81,20 + R60,90 = R194,02	 ✓MA ✓MA ✓MA ✓CA	(4)	TL3
3.2.1	R240,00	✓✓A	(2)	TL1
3.2.2	01/06/2012	✓✓RT	(2)	TL1
3.2.3	R692.42 – R240 = R452.42	✓M ✓A	(2)	TL2
3.2.4	"Credit Available" is how much credit Bulelwa has left "Credit Limit" is how much credit is allowed in total	✓ O ✓ O	(2)	TL2
3.2.5	Discount = R742,37× $\frac{12,5}{100}$ = R92,80 She paid = 742,37 – 92,80 = R649,57	 ✓M ✓M ✓A	(3)	TL4
				[15]
QUESTION 4				
4.1	5 6 7 8 9 10 10 11 12 12 12 13 14 15 15 16 16 17 18 19 22 24 25 27 30	✓✓A	(2)	TL1
4.2	12	✓✓A	(2)	TL1
4.3	Median is the middle value of an ordered data set	 ✓ C ✓CA	 (2)	TL1
4.4	Range = 30 – 5 = 25	✓M ✓A	(2)	TL2
4.5	Mean = $\frac{5+6+7+8+9+10+10+11+\ldots+22+24+25+27+30}{25}$ = $\frac{373}{25}$ = 14,92 Not valid	✓ M ✓ A ✓O	 (3)	TL4
				[11]
Total Marks				**[50]**

TAXONOMY LEVELS					
GRADE 10					
MATHEMATICAL LITERACY					
PAPER 2 : TERM 2 – 2022					
MARKS: 50					
QUESTION	**KNOWLEDGE**	**ROUTINE PROCEDURES**	**COMPLEX PROCEDURES**	**PROBLEM SOLVING**	**TOTAL**
DESIRED %	**30%**	**30%**	**20%**	**20%**	**100%**
1.1.1	2				2
1.1.2	2				2
1.1.3			5		5
1.1.4		2			2
1.2		3			3
2.1	3				3
2.2.1		2			2
2.2.2		2			2
2.2.3				3	3
3.1			4		4
3.2.1	2				2
3.2.2	2				2
3.2.3		2			2
3.2.4		2			2
3.2.5				3	3
4.1	2				2
4.2	2				2
4.3	2				2
4.4		2			2
4.5				3	3
Total	**17**	**15**	**9**	**9**	**50**
Actual %	**34%**	**30%**	**18%**	**18%**	**100,0**
Desired %	**30%**	**30%**	**20%**	**20%**	**100**