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Province of the
EASTERN CAPE
EDUCATION

NATIONAL
SENIOR CERTIFICATE

GRADE 11

MATHEMATICAL LITERACY MEMORANDUM

MARKS: 75

Symbol	Explanation
M	Method
CA	Continuous accuracy
A	Accuracy
C	Conversion
S	Simplification
RT/RG/RM	Read from Table / Read from graph/ Read from Map
SF	Substitution in formula
O	Opinion/Example / Deduction/conclusion
P	Penalise for example no units / incorrect rounding etc
R	Rounding
J	Justification/ Motivation/ Supply a Reason

This marking guideline consists of 5 pages

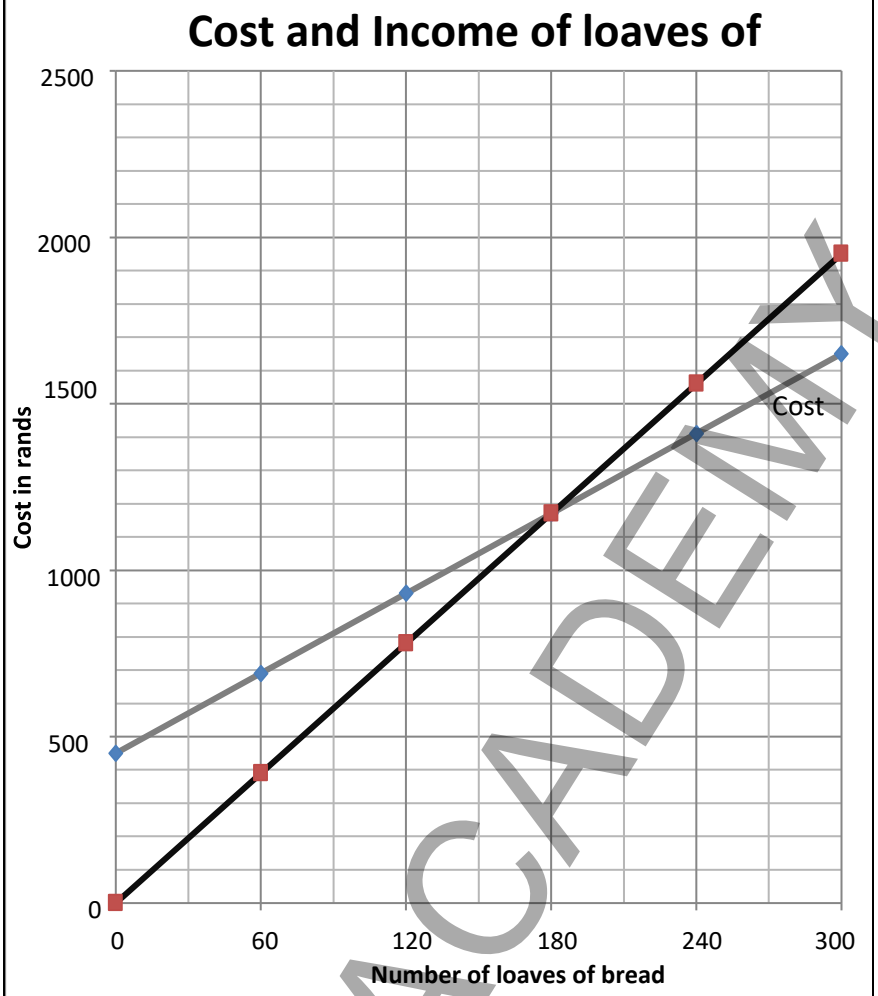
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QUESTION 1 [15]			
OUES	**SOLUTIONS**	**EXPLANATIONS**	**L1-4**
1.1.1	Rent ✓ Cell phone contract✓	 2 A	1
1.1.2	R 250 ,00 × 4 = R 1 000, 00✓ R 1 000, 00 + R 600, 00✓ R 1 600,00✓	1M 1M 1A	2
1.1.3	B = R150, 00 + R 500,00 + R 300,00+ R 120,00 ✓ = R1 070,00✓	1M 1A	2
1.1.4	$\frac{1\ 070,00}{1\ 600,00} \times 100$✓ = 66,875% ✓ = 67%✓	1M 1A 1R	3
1.2.1	4:30 – 9:00✓ = 5hours 30minutes✓	1M 1A	2
1.2.2	5hours× 60minutes = 300minutes✓ 300 minutes + 30minutes✓ = 330 minutes✓	1M 1M 1A	3
QUESTION 2 [19]			
2.1	Cost = R450 +(R4×number of loaves) ✓ ✓	2Correct formula (2)	2
2.2	Value for A= R450 + (R4 ×300) ✓ = R1 650,00✓ Value for B= R6.50 × R180✓ =R1 170,00✓	1 Substitution 1 Answer 1 Substitution 1 Answer (4)	2
2.3	Cost of 50 loaves = R450 + (R4 × 50) ✓ = R650,00✓	1 Substitution 1 Answer (2)	2

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2.4		1 heading 1 A (0;450) 1 A (0;0) (starting points) 1 breakeven point 1 labelling both axes 1 labelling both graphs 1A joining the points (7)	2
2.5	Coordinates (180✓ ; R1 170) ✓ It means that both cost and income for baking and selling 180 loaves is the same amount which is R1 170. ✓ ✓	2 coordinates 2 Meaning (4)	2

QUESTION 3	**[21]**			
3.1.1	Two items ✓ ✓		2A	1
3.1.2	R 499, 00 × $\frac{33}{100}$ ✓ R 164, 00 ✓	Or Discount = $33\%\ of\ R499 = R164$	1M 1M	2
3.1.3	Total including VAT R 768,00 × $\frac{15}{100}$ ✓ = R 115, 20 + R 768,00 ✓ = R 883,20 ✓		1Mmultiplication 1M addition 1A answer	2

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3.2.1	Cost of water used 6kl = R0, 00 24kl × 6,48✓ = R155, 52✓ 5kl × 16,20 = R81,00✓ R155, 52 +R81,00✓ =R236,52 ✓ R236,52 + R80,70✓ = R317,22 ✓	Cost of water used 6kl = R0, 00 23kl × 6,48✓ = R149,04✓ 5kl × 16,20 = R81,00✓ R149,04+R81,00✓ =R230,04 ✓ R230,04 + R80,70✓ = R310,74 ✓	1Multiplication 1A answer 1A answer 1M addition 1 A answer 1M adding R80,70 1A answer	2
Or	Cost of water used 6kl = R0, 00 24kl × 6,48✓ = R155, 52✓ 5kl × 16,20 = R81,00✓ R155, 52 +R81,70✓ =R236,52 ✓ R236,52 + R80,70+R7,15✓ = R324,37✓	Cost of water used 6kl = R0, 00 23kl × 6,48✓ = R149,04✓ 5kl × 16,20 = R81,00✓ R149,04 +R81,00✓ =R230,04 ✓ R230,04 + R80,70+R7,15✓ = R317,89✓	1Multiplication 1A answer 1A answer 1M addition 1 A answer 1M adding R80,70 & R7,15 1A answer	
3.2.2	New price = R80,70× $\frac{15}{100}$ = R 12,01✓ = R80,82 + R12,01✓ = R 92,81✓		1Mmultiplication 1Maddition 1Aanswer	2
3.3	$1st\ year = (\frac{7,5}{100} \times R120\ 000,00) + R\ 120\ 00,00$ ✓		1Multiplication	
	= R129 000, 00✓ $2nd\ year = \frac{7,5}{100} \times R120\ 000 + R129\ 000$ $= R138\ 000$✓ $3rd\ year = \frac{7,5}{100} \times R120\ 000 + R138\ 000$ $= R147\ 000$✓		1Aanswer 1Aanswer 1Aanswer	3
Or	Simple interest = 7,5% × R120 000 × 3 = 27 000 Total = R120 000 + 27 000 = R147 000.		1Multiplication 3Aanswer	
QUESTION 4	**[20]**			
4.1.1	32,49; 29,63; 23,62; 17,89; 14,59; 12,03; 10,31; 9,89; 9,57✓ ✓		2M arranging in descending order	2
4.1.2	Median=R14,59✓ ✓		2M	2
4.1.3	Range = R 33,73 – R9,68✓ = R24,05 ✓		1 Subtraction 1 Answer	2
4.1.4	-R3,32 ✓ ✓		2M	2
4.1.5	Margarine 500g✓ ✓		2M	2
4.1.6	No Mode ✓ ✓		2M	2
4.2.1	15✓ ✓		2 M	2
4.2.2	4✓ ✓		2 M	2
4.2.3	10✓ ✓		2 M	2

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4.2.4	¾ OR 0,75 OR 75%✓ ✓	1A numerator) 1A denominator)	2

TAXONOMY LEVELS					
GRADE 11					
MATHEMATICAL LITERACY					
PAPER 1 : TERM 2 – 2022					
MARKS: 75					
QUESTION	**KNOWLEDGE**	**ROUTINE PROCEDURES**	**COMPLEX PROCEDURES**	**PROBLEM SOLVING**	**TOTAL**
DESIRED %	**30%**	**30%**	**20%**	**20%**	**100%**
1.1.1	2				2
1.1.2		3			3
1.1.3		2			2
1.1.4			3		3
1.2.1		2			2
1.2.2			3		3
2.1.1		2			2
2.1.2		4			4
2.1.3		2			2
2.1.4			7		7
2.1.5		4			4
3.1.1	2				2
3.1.2	2				2
3.1.3		3			3
3.2.1			3	4	7
3.2.2				3	3
3.3				4	4
4.1.1	2				2
4.1.2	2				2
4.1.3	2				2
4.1.4	2				2
4.1.5	2				2
4.1.6	2				2
4.2.1	2				2
4.2.2	2				2
4.2.3	2				2
4.2.4				2	2
Total	**24**	**22**	**16**	**13**	**75**
Actual %	**32%**	**29%**	**18%**	**18%**	**100,0**
Desired %	**30%**	**30%**	**20%**	**20%**	**100**

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