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EDUCATION

GRADE 12

MATHEMATICAL LITERACY

MARCH TEST 1 MARKING GUIDELINES

11 MARCH 2025

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

This marking guideline consists of 6 pages including cover pages.



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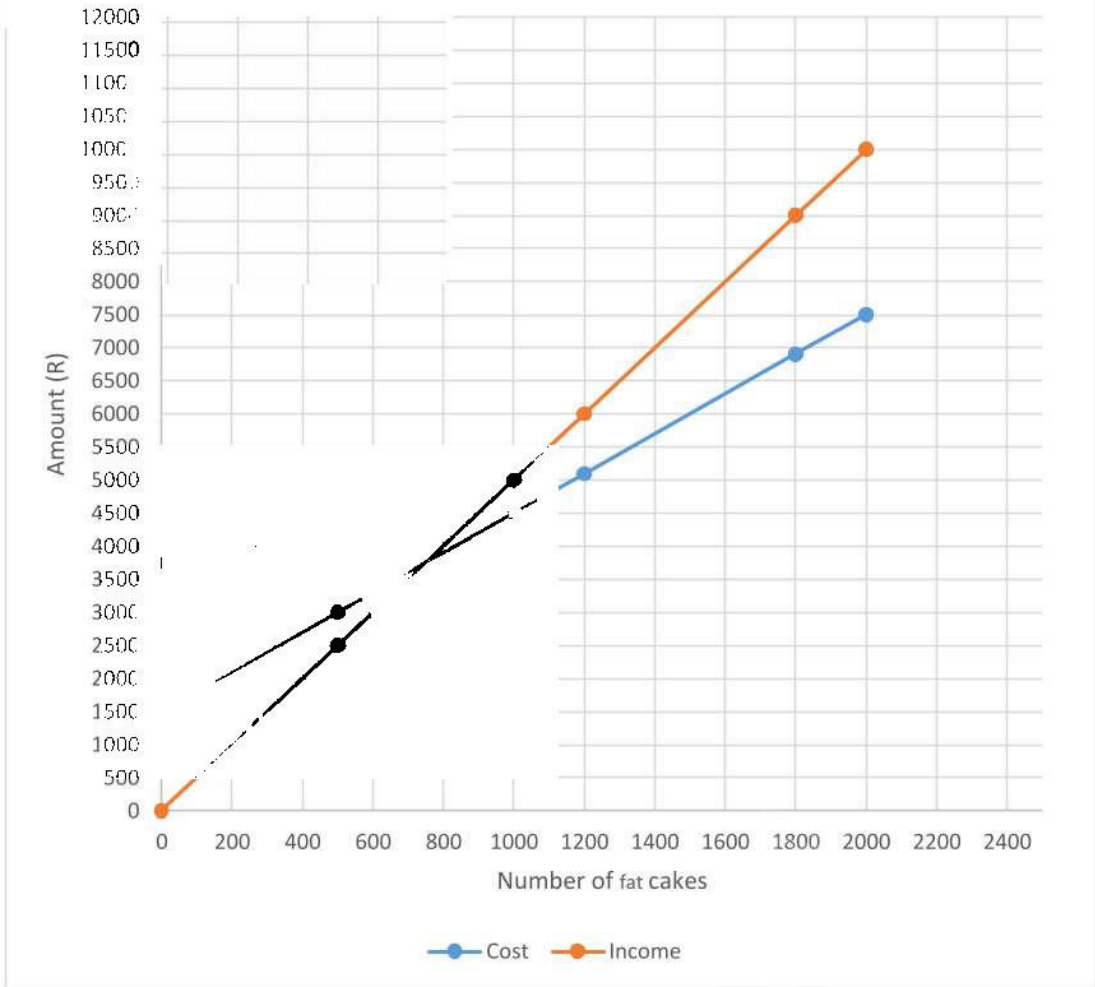
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QUESTION 1				
Ques		Solution	Explanation	
1.				
	1.1	$\text{Bonus} = R11\,390 - (1\,400 + 1\,200 + 70 + 230 + 340 + 600 + 450 + 5\,000) \checkmark$ $= R11\,390 - R9\,290 \checkmark \text{MA}$ $= R2\,100 \checkmark \text{A}$	1MA adding all values 1MA subtracting 1A simplification (3)	F
	1.2	$\text{Total Deductions} = R150 + R260 + R300 + R6 \checkmark \text{MA}$ $= R716 \checkmark \text{A}$	1MA adding ALL correct values 1A simplification (2)	F
	1.3	$\text{Net salary} = R11\,390 - R716 \checkmark \text{MCA}$ $= R10\,674 \checkmark \text{CA}$	CA from 1.2 1MA subtracting 1CA simplification (2)	F
	1.4	Employee: is a person employed for wages or salary. $\checkmark \checkmark \text{O}$	2O explanation (2)	F
	1.5	Special amount income: EOBI-Deduction $= 1\,200: 300 \checkmark \text{RT}$ $= 1:0,25 \checkmark \text{A}$	1RT correct values 1A simplification in correct order (2)	F
				[11]
QUESTION 2				
2.				
	2.1	SARS-South African revenue services $\checkmark \checkmark \text{A}$	2A correct answer (2)	F
	2.2	$\text{Tax threshold} = R17\,235 \checkmark \text{RT} \div 0.18 \checkmark \text{MA}$ $R95\,750 \checkmark \text{A}$	1RT correct rebate 1MA dividing by 18% OR multiplying by 100/18 1A simplification (3)	F
	2.3	$R45\,544.78 \times 12 \checkmark \text{MA}$ $= R546\,537.36$ $\text{Pension fund} = (0.075 \times R546\,537.36)$ $= (R40\,990,302) \checkmark \text{A}$ $\text{Donation} = (R25\,000) \checkmark \text{RT}$ $\text{Annual taxable Income}$ $= R546\,537.36 - R40\,990.302 - R25\,000 \checkmark \text{MCA}$	1MA multiplying by 12 1A simplifying pension 1RT correct donations 1MCA subtraction pension and donation 1CA simplification (5)	F



		= R480 547 .06 ✓ CA		
2.4		$77\,362 + 31\% (480\,547.06 - 370\,500)✓$ $= 77\,362 + 0.31 \times 110\,047.06$ $= 77\,362 + 34\,114.5886$ $= R111\,476.5886$ Tax after rebates $= R111\,476.5886 - 17\,235✓RT$ $= R94\,241.5886 - 7\,592✓MCA$ $= R76\,649.5886 \div 12✓MCA$ $= R6\,387.47✓CA$ The statement is Valid✓O	CA from 2.3 1SF correct substitution 1RT rebate 1MCA subtracting medical credits 1MCA dividing by 12 1CA simplification 1 O conclusion (6)	F
				[16]
QUESTION 3				
3.				
3.1		Fixed Costs = R500 + R1 000✓M = R1 500✓A	1M adding correct values 1A answer (2)	F
3.2		$\begin{matrix} \checkmark RT & \checkmark RT \\ \text{Cost in Rands} = R1\,500 + R3 \times n \end{matrix} \checkmark A$	1RT fixed cost 1RT variable cost values (R3 with tariff) 1A equation format (3)	F
3.3.1		$A = 6\,000 \div 5✓M$ $= 1\,200✓A$ OR $A = (R5\,100 - R1\,500) \div 3✓M$ $= R3\,600 \div R3$ $= R1\,200✓M$	1M division 1A answer 1M division 1A answer (2)	F



3.3.2	$B = R1\ 500 + R3 \times n$ $= R1\ 500 + R3 \times 1\ 000 \checkmark$ SF $= R4\ 500 \checkmark$ CA	CA from 3.2 1SF correct substitution 1A simplification (2)	F	
3.3.3	$C = R5 \times 2\ 000 \checkmark$ SF $= R10\ 000 \checkmark$ A	1SF correct substitution 1A simplification (2)	F	
3.4.1	The Graph of Income vs Cost after selling fat cakes  1A starting point (0; 1 500) ✓ 1A end point (2 000; 7 500) ✓ 1A joining all the points plotted in a straight line ✓ 1A labelling the break-even point ✓		(3)	F
3.4.2	Break Even at 750 ✓ A The claim is VALID ✓ O	1A break-even estimation 1A conclusion (2)	F	
			[17]	



QUESTION 4			
4.1	Value Added Tax ✓✓A	2A correct answer (2)	F
4.2	✓RT $A = 1,5351 \div 1,15$ ✓MA $= 1,334869565$ $= 1,3349$ ✓A	1RT using 1,5351 1MA dividing by 1.15 1A correct answer (3)	F
4.3	$3 = (50 * 0,8393) - (300 * 1,0779) + (250 * 1,5351)$ ✓A✓RT $= R749,11$ ✓CA Calculating the remaining amount $= R861,50 - R749,11$ ✓MCA $= R112,39$ Use Block 4 $= R112,39 \div 1,6055$ ✓MCA $= 70\text{kWh}$ ✓CA Total Usage $= 50 + 300 + 250 + 70$ ✓MCA $= 670\text{kWh}$ ✓CA	1A correct consumption per block 1RT 3 correct tariffs 1CA simplification 1MCA subtracting correct values 1MCA dividing by tariff 1CA simplification 1MCA adding values 1CA simplification (8)	F
4.4	$. = R279,00 + (75 - 50) \times R0,99$ ✓SF $= R279,00 + (25 \times R0,99)$ $= R279,00 + R24,75$ ✓M $= R303,75$ ✓CA	1SF correct substitution 1M adding the values 1CA answer (3)	F
			[16]
QUESTION 5			
5.			
5.1	Range = Max-Min $5 = 18 - A$ ✓SF $A = 18 - 5$ $A = 13$ ✓A	1SF substitution 1A answer (2)	D
5.2	Mean = $\frac{\text{Sum of all data values}}{\text{Number of all data values}}$ $= \frac{651}{40}$ ✓MA✓MCA $= 16,275$ ✓CA $= 16,28$ ✓R	1MA adding 1MCA dividing by 40 1CA simplification 1 R rounding (4)	D
5.3	$B = \frac{15+16}{2}$ ✓MA $= \frac{31}{2}$ $= 15,5$ ✓A $C = \frac{16+17}{2}$ ✓MA $= \frac{33}{2}$	1MA lower quartile concept 1A answer 1MA median concept	D



		$\approx 16,5 \checkmark A$ $D = \frac{17+17}{2} \checkmark MA$ $= \frac{34}{2}$ $= 17 \checkmark A$	1A answer 1MA upper quartile concept 1A answer (6)	
5.4		$\frac{30 \checkmark RT}{40 \checkmark RT}$ $= 0,75 \checkmark CA$	1RT correct numerator 1RT correct denominator 1CA simplification AO (3)	P
				[15]
				Total: 75

