Hoërskool Johan Jurgens
Mathematical Literacy
Grade 12
Term 1
Cycle Test
Marking Guideline

Examiner: M Botha
Moderator: K Potgieter
Date: 27 – 02 – 2026

Time: 60 minutes
Total: 50 marks

SYMBOL	EXPLANATION
M	Method
MA	Method with accuracy
MCA	Method with consistent accuracy
CA	Consistent accuracy
A	Accuracy
C	Conversion
S	Simplification
RT/RG	Reading from a table/graph/diagram
SF	Correct substitution in a formula
O	Opinion/Example/Definition/Explanation
P	Penalty, e.g., for no units/incorrect rounding off, etc.
R	Rounding off
NPR	No penalty rounding or omitting units
AO	Answer only, if correct, full marks

Question 1

1.1.1	5,3% √√ A	2 A answer NPU	(2) L1
1.1.2	Bar graph √√ A	2 A answer	(2) L1
1.1.3	April √ A and May √ A	2 A answer	(2) L1
1.1.4	No √ A Prices will increase at a lower rate √ J	1 A answer 1 J justification	(2) L2
1.1.5	$\frac{60}{100}\ x\ 5\ 900\ 000$ √ M $= R3\ 540\ 000 + 5\ 900\ 00$ $= \mathrm{R}9\ 440\ 000$ √ A	1 M multiply by 60% 1 A answer	(2) L1
1.6.6	5,6 – 5,3 √ M = 0,3% √ A	1 M method 1 A answer	(2) L1
1.2.1	No tax will be deducted from his winning money √√ O	2 O explanation	(2) L2
1.2.2	Year 1: $R1\ 200\ 000\ x\ \frac{11,5}{100} = R138\ 000$ √ A $R1\ 200\ 000 + R138\ 000 = R1\ 338\ 000$ Year 2: $R1\ 338\ 000\ x\ \frac{11,5}{100} = R153\ 870$ √ A $R1\ 338\ 000 + R153\ 870 = R1\ 491\ 870$ Year 3: $R1\ 491\ 870\ x\ \frac{11,5}{100} = R171\ 565,05$ √ A $R1\ 491870 + R171\ 565,05 =$ $R1\ 663\ 435,05$ √ A Valid statement √ S	1 A answer 1 A answer 1 A answer 1 A answer 1 Statement	(5) L4
			[19]

Question 2

2.1.1	Annual gross income =(R33 500 x 12) √ M + R34 500 √ M = R436 500 √ A	1 x 12 1 Add bonus 1 A answer	(3) L2
2.1.2	Taxable income = R436 500 – ($\frac{7,5}{100}$ x 33 500 x 12) √√ M = R406 350 √ A	2 M method 1 A answer	(3) L3
2.1.3	Tax bracket 3 = R73 726 + ($\frac{31}{100}$ x 406 350 – 353 100) √ MA = R90 233,50 √ A Rebates = R90 269,50 – R16 425 √ MA = R73 808,50 √ A Medical credits = R73 844, 50 – (694 x 12) √ MA = R65 480,50 √ A	1 M method 1 A answer 1 M method 1 A answer 1 M method 1 A answer	(6) L4
2.1.4	R65 480,50√ MA ÷ 12 √ M = R5 456,71 √ A	2 M method 1 A answer	(3) L2
2.2	(6 x R0) + (4 x R15,20) + (10 x R21,50) + (20 x R28,75) + (25 x R35,60) √ MA + R185 √ M = R1 925,80 √ A	1 M method 1 M adding R185 1 A answer	(3) L2
			[18]

Question 3

3.1.1	Total costs = 4 880 + 6 860 √ M = NZ$11 740 √ A = $\frac{11\ 740}{8{,}337}$ √ MA = R1 400 √ A	 1 M method 1 A answer 1 M method 1 R rounded off answer	(4) L3
3.1.2	NZ$ = 255 650 x 0,2689 √ M = 68 744,29 √ A	1 M method 1 A answer	(2) L1
3.1.3	R = $\frac{6\ 789}{0{,}2689}$ √ M = 25 247,30 √ A	 1 M method 1 A answer	(2) L1
3.2.1	Deposit =8% R1 599 000 × 0,08 = R127 920 ✓ A Loan amount 1 599 000 – 127 920 √ M = R1 471 080 √ A	1 A calculating deposit 1 M method 1 A answer	(3) L2
3.2.2	Monthly repayment $\frac{1\ 471\ 080\ √}{1000\ √}$ x factor MA OR $\frac{1\ 599\ 000\ √}{1000\ √}$ x factor	2 MA answer 2 A answer	(2) L2
			[13]

Total: 50

Levels:

Question:	Mark:	Level:		Level summary:		
1.1.1	2	1		Level 1	14	28%
1.1.2	2	1		Level 2	16	32%
1.1.3	2	1		Level 3	9	18%
1.1.4	2	2		Level 4	11	22%
1.1.5	2	1			50	100%
1.1.6	2	1				
1.2.1	2	2				
1.2.2	5	4				
	19					
2.1.1	3	2				
2.1.2	3	3				
2.1.3	6	5				
2.1.4	3	2				
2.2.1	3	2				
	18					
3.1.1	4	3				
3.1.2	2	1				
3.2.1	3	3				
3.2.2	2	2				
	13					
	50					