GAUTENG PROVINCE
EDUCATION
REPUBLIC OF SOUTH AFRICA

JUNE EXAMINATION
GRADE 12

2025

MARKING GUIDELINES

MATHEMATICAL LITERACY

(PAPER 1)

SYMBOL	EXPLANATION
M	**Method**
MA	Method with accuracy
MCA	Method with consistent accuracy
CA	Consistent accuracy
A	Accuracy
C	Conversion
S	Simplification
RT	Reading from a table/graph/document/diagram
SF	Correct substitution in a formula
O	Opinion/Explanation
P	Penalty e.g. for no unit, incorrect rounding-off, etc.
NPR	No penalty for correct rounding
NPU	No penalty for omitting unit, but wrong unit is penalised
AO	Answer only

KEY TO SUBJECT SYMBOLS:

M = Measurement; MP = Maps, Plan and other representations; P = Probability

6 pages

QUESTION 1 [20 marks]		ANSWER ONLY FULL MARKS		
Q	**Explanation**	**Awarding of marks**	**Marks**	**T&L**
1.1.1*	Income is the amount of money that the school receives. ✓✓	2A Correct Definition.	(2)	F 1
1.1.2	✓ Seven million, seven hundred and twenty-five thousand two hundred rand ✓	2A amount in words. **NPU**	(2)	F 1
1.1.3	A = 664 – 605 ✓ = 59 ✓ OR A = R885 000 ÷ R15 000 ✓ = 59 ✓	1MA subtracting correct values 1 A simplification OR 1MA Dividing correct values 1 A simplification	(2)	F 1
1.1.4	✓ Difference = R8 979 550 – R8 180 936 = R798 614 ✓	1MA subtracting correct values 1A answer	(2)	F 1
1.1.5	Tuckshop rental ✓✓	2RT correct income type Accept Tuckshop	(2)	F 1
1.1.6	Monthly fees = R15 000 ÷ 12 ✓ = R 1250 ✓	1MA dividing correct values by 12 1A answer	(2)	F 1
1.2.1	Numerical ✓✓	2A choosing correct data classification	(2)	DH 1
1.2.2	Modal height = 1,59 m ✓✓	2RT correct answer (Accept 159) **NPU**	(2)	DH1
1.2.3*	159 159 159 158 156 150 149 146 144 144 135 ✓✓	2RT correct order (accept height in meters)	(2)	DH 1
1.2.4	150 ✓✓	2 A correct median	(2)	DH 1

QUESTION 2 [24 marks]				
Q	**Explanation**	**Awarding of marks**	**Marks**	**T&L**
2.1.1	**South African Revenue Service.**✓✓A	2A explanation	(2)	F1
2.1.2	**Gross Annual income** R45 000 × 12 = R540 000✓ Pension Fund: 7,5% × R540 000 = R40 500 ✓ **Taxable Income:** = Annual Gross Income − Pension Contribution = R540 000 − R40 500 ✓ = R499 500 ✓	1M monthly × 12 & answer 1MA calculate 7,5% of salary. (accept 45 000 × 7,5% = R3375. R3375 × 12 = 40500✓) 1M subtraction of pension fund 1CA simplification	(4)	F3
2.1.3*	Medical Tax Rebate = 728 + (246 × 2) ✓ = R1 220 = R1 220 × 12 ✓ = R14 640 ✓	1A answer when × 246 by 2 1M answer multiplied by 12 1CA answer	(3)	F3
2.1.4	=77 362 + 31% [(499 500 – 370 500)] ✓ = 117 352 ✓ = 117 352 – 17 235 ✓ – 14 640 ✓ = R85 477 ✓	CA 2.1.2 and 2.1.3 1SF substitution into formula 1S simplification 2 subtracting rebates/ medical credit 1CA simplification	(5)	F3
2.2.1 *	= 2 499 ✓ ÷ 1,15 ✓ = 2 173,04 ✓ **OR** = 2 499✓ × $\frac{15}{115}$✓ = 325,96 = 2 499 – 325,96 = 2 173,04✓	1RT correct value 1M calculating excl VAT 1S Simplification 1RT correct value 1M calculating VAT 1S simplification	(3)	F2
2.2.2	= $\frac{2\,499 - 5\,000}{5\,000}$ ✓ × 100✓ MA = -50,02% decrease ✓A Accept 50%	2MA substitution into formula. 1A answer in percentage **NPR** **AO**	(3)	F2
2.2.3	180 ✓ × 18,19 ✓ = R3 274,20 ✓ Cheaper to purchase the racket in South Africa. ✓	1RT correct amount in dollars 1MA multiply by correct exchange rate	(4)	F4

	or 2499 ÷ 18.19 ✓= $137.38✓ $137.38 < $180✓ Cheaper to purchase the racket in South Africa. ✓	1S simplification 10 opinion		

QUESTION 3 [25 marks]				
Q	**Explanation**	**Awarding of marks**	**Marks**	**T&L**
3.1.1 *	Lando Norris ✓ ✓	2RT corerct driver	(2)	DH 1
3.1.2 *	The data is **discrete** ✓ ✓ because points are counted in whole numbers, and fractional points are not possible in this context. ✓ ✓	2A type of data 20 explanation	(4)	DH 2
3.1.3	Range = Max Value − Min value ✓ 331 = 362 − A A = 362 – 331 ✓ A = 31 ✓	1A concept of range 1M Changing subject of the formula 1CA answer	(3)	DH 3
3.1.4	Arrange values in ascending order: 31, 62, 150, 177, 189, 240, 251, 291, 315, 362 ✓ *Median* = $\frac{189+240}{2}$ = 214,5 *Q1* = 150 ✓ *Q3* = 291 ✓ *IQR* = *Q3* – *Q1* ✓ = 291 – 150✓ = 141 ✓	1A arranging values in ascending order 1RT answer Q1 1RT answer Q3 1MA concept of IQR 1SF Substitution in formula 1CA answer	(6)	DH 3
3.1.5	= $\frac{3\ ✓}{10\ ✓}$ = 0,3 ✓	1A numerator 1A denominator 1CA simplification **Accept** $\frac{2}{10}$ = 0,2 **AO**	(3)	P3
3.2.1	From 2014 to 2017, the unique viewership **decreased**. ✓ ✓	2O decrease/decline	(2)	L4
3.2.2	$\frac{600+525+527+515+500+450+425+400+390+352+490+471+433+445}{14}$ = 465,93 = 465 ✓	1A adding correct values 1MA dividing by 14 1R Rounding Accept 466	(3)	DH 3
3.2.3	A decrease in unique viewership may result in **lower brand exposure** for sponsors, potentially leading to reduced sponsorship deals and investment in Formula 1. ✓ ✓	2O explanation Accept any reasonable explanation.	(2)	L4

QUESTION 4 [31 marks]				
Q	**Explanation**	**Awarding of marks**	**Marks**	**T&L**
4.1.1	✓ ✓ A = 33% – (22% + 4% + 2% + 2%) = 3% ✓ **OR** 33 ✓– 30✓ = 3 ✓	1RT using 33% in the calculation 1MA subtracting values 1CA answer **NPU**	(3)	DH 2
4.1.2	✓ Budgeted amount = 22% × R1, 35 trillion = R0, 297 trillion ✓ = R297 000 000 000 ✓ **OR** R297 Billion **OR** Budgeted amount = 22% ✓ × R1 350 000 000 000 ✓ = R297 000 000 000 ✓	1MA multiply by 22% 1S answer in trillions 1A amount in billions 1MA multiply by 22% 1S answer in trillions 1A amount in billions	(3)	DH 2
4.1.3	Total government expenditure = R1,35 trillion ÷ 60,3% ✓✓ = R2,23880597 ✓ = R2,2388 trillion ✓	2MA dividing correct values 1CA answer 1R rounding off correctly (Accept 2.24 Trillion or 2.239 Trillion)	(4)	DH 3
4.1.4	Income tax – deducting a certain portion of money from the citizens' salaries/wages/ earnings ✓✓ Charging VAT – consumption tax levied on the consumption of goods and services ✓✓ Import duty – tax levied on imported goods	2O type of tax and explanation 2O type of tax and explanation **Accept any TWO revenue sources** **NB: Must provide explanation for second mark.**	(4)	DH 4
4.2.1	✓✓ Tariff – Cost of electricity per unit/kWh	2A definition	(2)	F 1
4.2.2	Number of units = 650 – 400 kWh ✓ = 250 kWh ✓	1A subtracting 400 kWh 1CA answer	(2)	F 2
4.2.3	✓ Tariff including VAT = 270,33c × 1,15 = 310,8795c ✓ = R3,11 ✓ **OR**	1MA increasing correct tariff by 15% 1CA tariff incl. VAT in cents 1CA answer in rands	(3)	F 2

	Tariff including VAT ✓ = (270,33c × 15%) + 270,33 = 310, 8795c ✓ = R3,11 ✓ **OR** 270,33 ÷ 100= 2,7033 **2.7033** × 1.15 = R3,11	**NPR**		

Q	Explanation	Awarding of marks	Marks	T & L
4.2.4	Amount excl. VAT = R1 941, 42 ÷ 1,15 = R1 688,19 ✓ Block 1 = R2,7033 × 100 = R270, 33✓ Block 2 = R3,1637 × 300 = R949,11✓ Amount spent in block 3 ✓ = R1 688,19 – (R270,33 + R949,11) = R468,75 ✓**A** Number of units in block 3 = R468,75 ÷ R3,4467 ✓ = 135, 9996518 kWh ✓ Total number of kWh = 100 + 300 + 135, 9996518 = 535, 999… = 536 kWh ✓	1A correct value excluding VAT MA correct answer block 1 MA correct answer block 2 1MCA calculating block 3 amount 1A block 3 amount 1 calculating number of units in block 3 1CA number of units in block 3 1A answer **NPR** **(535.999…award full marks without rounding)**	(8)	F 3
4.2.5	• Switch off his geyser when not in use. ✓ • Use a gas stove to cook. • Invest in a solar system. • Invest in energy efficient appliances. ✓	1O first suggestion 1O second suggestion **NB: Accept any reasonable suggestion**	(2)	F 4
			[31]	

TOTAL: 100

Notes		
1.1.2	If the word school is omitted	1/2
1.2.3	If one value omitted If more than one value omitted	1/2 Zero
2.1.3	If 246 not multiplied by 2	2/3
2.2.1	= 5000 ✓ ÷ 1,15 ✓ = 4347.83 ✓ Or = 5 000✓ × $\frac{15}{115}$✓ = 652.17 = 5 000 – 652.17 = 4 347.83✓	3/3 3/3
3.1.1	If answer is 315 (points)	Zero
4.2.1	Accept Unit R/kWh or cents/kWh	2/2

TAXONOMY LEVEL GRID

TOTAL: 100

JUNE EXAMINATION

TASK: 2025 GRADE: 12

Question Number	TL 1	TL 2	TL3	TL4
1.1.1	2F			
1.1.2	2F			
1.1.3	2F			
1.1.4	2F			
1.1.5	2F			
1.1.6	2F			
1.2.1	2F			
1.2.2	2F			
1.2.3	2F			
1.2.4	2F			
2.1.1	2F			
2.1.2			4F	
2.1.3			3F	
2.1.4			5F	
2.2.1		3F		
2.2.2		2F		
2.2.3				4F
3.1.1	2D			
3.1.2		4D		
3.1.3			3D	
3.1.4			6D	
3.1.5			3W	
3.2.1				2F
3.2.2			3D	
3.2.3				2F
4.1.1		3D		
4.1.2		3D		
4.1.3		4D		
4.1.4				4D
4.2.1	2F			
4.2.2	2F			
4.2.3	3F			
4.2.4			8F	
4.2.5				3F
Total	31	19	35	15
%				
100	31	19	35	15

Finance 65 %
Data handling 32 %
Probability 3%