education

Department of Education
FREE STATE PROVINCE

PAPER 1

GRADE 10

MATHEMATICAL LITERACY

MARKING GUIDELINE

JUNE 2022

MARKS: 50

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Symbol/*Simbool*	**Explanation/*Verduideliking***
M	Method/*Metode*
M/A	Method with accuracy/*Metode van akkuraatheid*
CA	Consistent accuracy/*Volgehoue akkuraatheid*
A	Accuracy/*Akkuraatheid*
C	Conversion/*Herleiding*
S	Simplification/*Vereenvoudiging*
RT	Reading from a table/graph/diagram/*Lees vanaf tabel/grafiek/diagram*
SF	Correct substitution in a formula/*Korrekte vervanging in formule*
O	Opinion/Example/Definition/Explanation/*Opinie/Voorbeeld/Definisie/Verduideliking*
P	Penalty, e.g., for no units, incorrect rounding off, etc./*Penalisasie, bv. vir geen eenhede/verkeerde afronding ens.*
R	Rounding off/*afronding*
NPR	No penalty for correct rounding/*Geen penalisering vir korrekte afronding nie*
NPU	No penalty for the units/*Geen penalisering vir eenhede nie*
AO	Answer only, if correct, full marks/*Slegs antwoord, indien korrek, volpunte*
MCA	Method with consistent accuracy/*Metode met volgehoue akkuraatheid*

This marking guideline consists of 06 pages

QUESTION 1 [10 marks]	ANSWER ONLY FULLY MARKS

Item	Solution	Explanation	T/L
1.1	R250 ✓✓RT	2RT correct value **NPU** (2)	F1
1.2	Rent ✓✓a	2A correct expense (2)	F1
1.3	Total income = R3 800 + R1 800 ✓MA = R5 600✓A	1MA adding correct values 1A simplification **NPU** (2)	F1
1.4	✓RT R250; R300; R700; R1 500; R1 700 ✓MA	1RT correct values 1A ascending order **NPU** (2)	D1
1.5	R700 ✓✓A	**CA from 1.4** 2CA median **NPU** (2)	D1

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QUESTION 2 [16 marks]

Item	Solution	Explanation	T/L
2.1	Palesa ✓✓RT	2 RT correct name (2)	F1
2.2	2 ✓✓A	2A correct answer (2)	F1
2.3	$\mathbf{B} = \frac{33}{100} \times R499$ ✓RT ✓MA $= R164,67$ ✓CA	1RT correct percentage 1MA multiplying correct amount 1CA value of B **AO NPU** (3)	F2
2.4	Probability $= \frac{1}{2}$ ✓A $= 0,5$ ✓CA	1A numerator and denominator 1CA probability as a decimal **AO** (2)	P2
2.5	VAT amount $= \frac{15}{100} \times R768,98$ ✓MA ✓RT $= R115,35$ ✓A Total amount $= R768,98 + R115,35$ ✓MA $= R884,33$ **OR** Total amount $= R768,98 \times \frac{115}{100}$ ✓RT ✓M ✓A ✓MA $= R768,98 \times 1,15$ $= R884,33$	1RT reading R768,98 1MA multiplying by 15% 1A VAT amount 1MA adding values (No mark for answer) 1RT reading R768,98 1A for 115 1MA dividing by 100 1M multiplying amount by percentage (4)	F3

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2.6	✓RT 550 : 884,33 ✓A 1 : 1,6 Her statement is correct ✓O.	1RT both correct values 1A correct order 1O conclusion (take note: 1:1,6 must be there to make conclusion). (3)	F4

QUESTION 3 [10 marks]			
Item	**Solution**	**Explanation**	**T/L**
3.1	Population ✓✓O	2O correct answer (2)	D1
3.2	**C** = 327 – 212 ✓MA = 115 ✓A **OR** **C** = 490 – 375 ✓MA = 115 ✓A	1MA subtracting correct values 1A value of C 1MA subtracting correct values 1A value of C **AO** (2)	D2
3.3	Boys (Males) ✓✓RT	2RT correct gender (2)	D2
3.4	Be a good reading "role model" for the learners.✓✓O **OR** Invite learners to socialize around reading ✓✓O **OR** Allocate reading time at school ✓✓O **OR** Have reading competitions ✓✓O **OR** Accept also: Build library/Get interesting reading material/give rewards for reading. **Any relevant answer**.	2O explanation (2)	D4

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3.5	Any company that sells books ✓✓O **OR** Library ✓✓O **OR** Publishers ✓✓O **OR** Book club ✓✓O **OR** Name of publishers ✓✓O Note: If learners name publishers e.g. Macmillan, Pearson etc. or bookstores e.g. CNA, PNA etc. give two marks.	2O explanation 2O explanation 2O explanation 2O explanation 2O explanation (2)	D4

QUESTION 4 [14 marks]			
Item	**Solution**	**Explanation**	**T/L**
4.1	Money deposited into Jabu's bank account. ✓✓O	2O explanation (2)	F1
4.2	✓MA **D** = R5 049,44 − R4 929,44 = R120 ✓CA **OR** **D** = 4 194,25 − (R100 + R5,25 + R1004 + R2 840 + R125) ✓MA = 4 194, 25 − R4 074,25 = R120 ✓CA	1MA subtraction values 1 CA answer if at least one value is correct 1MA adding and subtraction values 1CA simplify and answer **AO** (2)	F2
4.3	✓A Monthly account fee = $\frac{\text{R125}}{\text{R4 194,25}} \times 100$ ✓M ✓A = 2,98% **OR** ✓MA Monthly account fee = $\frac{2,98}{100} \times$ R4 194,25 ✓RT = R125 ✓CA	1A numerator 1A denominator 1M multiplying by 100 1RT total debits 1MA multiplying correct percentage 1CA answer (3)	F3

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4.4	Banks have to pay salaries ✓✓O **OR** Banks have to pay rent, electricity, water and security. ✓✓A **OR** To make profit/money. **OR** Any other relevant answer.	2O explanation 2O explanation 2O explanation 2O explanation (2)	F4
4.5	Range = R2 840 – R5,25 ✓MA = R2 834,75 ✓CA	**CA from 4.2 if D<5,25** 1MA subtracting correct values 1CA answer **AO** (2)	D2
4.6	Mean = $\frac{100+120+1\,004+2\,840+125+5,25}{6}$ ✓MCA = 886,54✓CA Jabu's statement is valid ✓O	**CA value of D from 4.2** 1MCA adding all values and dividing by 6 1CA simplification 1O conclusion (3)	D4

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