LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
EDUCATION

NATIONAL SENIOR CERTIFICATE

GRADE 12

MATHEMATICAL LITERACY P1
PREPARATORY EXAMINATION
SEPTEMBER 2023
MARKING GUIDELINES (ERRATA)

SYMBOL/SIMBOL	EXPLANATION/VERDUIDELIKING
M	Method/METODE
MA	Method with Accuracy/metode met akkuraatheid
CA	Consistent accuracy/konstante akkuraatheid
RCA	Rounding consistent Accuracy/afrond konstante akkuraatheid
A	Accuracy/akkuraatheid
O	Explanation/ verduideliking
C	Conversion/omskakeling
S	Simplification/vereenvoudiging
RT/RG/RD/RM/R	Reading from table/Reading from graph /diagram/ map/Reading from Plan/lees van grafiek , diagram ,kaart
F	Choosing the correct formula/korrekte formule
SF	Correct substitution in a formula/korrekte substitusie in formule
C	Opinion/opinie
J	Justification/regverdiging
P	Penalty e.g. for no units, incorrect rounding off etc. / pennaliseer vir eenhede, afrond ens.
Re	Reason/rede
Ro	Rounding /afrond
AO	Answer only ,full marks/antwoord alleen vol punte

These marking guidelines consists of 06 pages

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QUESTION 1	Answer Only Full Marks		
Ques	**Solution**	**Explanation**	**Level**
1.1.			
1.1.3.	Price in rand = 83,28 c/l ÷ 100✓MA = R0,8328 = R0,85 ✓R	1MA dividing by 100. 1R rounding. (2)	F L1 E
1.1.4.	Total pump price = R3,94 + R2,18 + **R0,83** + R12,34 + R4,12 **✓MA** = R 23,41 **✓CA**	**CA from 1.1.3** 1MA adding all correct values 1CA simplification (2)	F L1 E
1.2			
1.2.1.	Double bar graph **✓A✓A** OR **Horizontal double bar graph** **OR** **Multiple bar graph** **OR** **Compound bar graph**	1A correct type 1A bar graph (2)	D L1 E
1.2.4	**ACCEPT** Upington Phalaborwa **✓✓RT** Kimberley Bloemfontein	2RT	
1.3			
1.3.3	School number 8 **✓✓RT**	2RT	
1.3.4	**✓RT** **293 050 : 328 000 ✓A** **5 861 : 6 560 ✓CA** **OR** **293 050 : 328 000** **1 : 1,119262924**	1RT correct values 1A correct order 1S simplification (3)	D L1 E

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	OR **293 050 : 328 000** **0,893445122 : 1**		

QUESTION 2

Ques	Solution	Explanation	Level
2.1.			
2.1.3	Total monthly payment(P) = R15 226,95 + R 69,00✓**MA** = **R15 295,95** ✓**A**	1MA adding correct values 1A simplification (2) **AO**	F L2 E
2.1.4	✓**RT** % Instalment = $\frac{\text{R15 226,95}}{\text{R781 790,48}}$ × 100% ✓**RT** = **1,947702152%** ✓**CA** **OR** = **1,948** **OR** = **1,95%** **OR** = **2%**	1RT Numerator 1RT Denominator 1CA simplification **NPR** (3)	F L3 M
2.1.5	Total amount ✓**A** = **R15 295,95** × 71 months + R283 560,10 ✓**MA** = **R1 086 012,45** + R283 510,10 ✓**S** = **R1 369 572,55** ✓**CA**		

QUESTION 3			
Ques	**Solution**	**Explanation**	**Level**
3.1.2	**One million seven thousand one hundred and fifty five.✓✓A**	2A correct words (2)	D L1 E
3.1.4	**= 852 382,75 ✓CA** **OR** **= 852 382,8** **OR** **= 852 383**	**NPR**	
3.1.5	**The number of tourists decreased as the months increased. ✓✓O**		
3.2			
3.2.2	**Theft from vehicles in 2021** $= 6\,467 \times \frac{100}{120{,}8}$ **= 5 353,476821** **= 5 400**		
3.2.3	% Increase = $\frac{966 - 697}{697} \times 100\%$ **✓RT ✓RT** **= 38,59% ✓CA** **OR** **= 38,6%** **OR** **= 39%**	1RT Numerator 1RT Denominator 1CA simplification **NPR** (3)	F L3 M

QUESTION 4			
Ques	**Solution**	**Explanation**	**Level**
4.1			
4.1.3	Annual tax **✓RT** = R239 452 + [41% × (R1 033 125 – R817 600)] **✓SF** = R239 452 + R88 365,25 **✓MA**	**CA from Q4.1.2** 1RT correct table 1SF substituting value 1MA adding values 1CA simplification	F L3 D

	= R327 817,25 ✓**CA** Annual tax payable ✓**RT** ✓**RT** = R327 817,25 – **R16 425** – **R 9 000** – R 2 997 ✓**MCA** = R299 395,25 ✓**CA**	1RT for R16 425 1RT for R9 000 1MCA subtracting correct values 1CA simplification (8)	
4.3.1 – 4.3.2	The Examiner indicates that learners should have used a ruler to measure the exact point. **NO RANGE SHOULD BE USED.**		
4.3.2	IQR = $Q_3 - Q_1$ ✓**MA** = 350 ✓**RT** – 170 ✓**RT** = 180 ✓**CA**	**1MA concept of IQR**	

QUESTION 5			
Ques	**Solution**	**Explanation**	**Level**
5.1			
5.1.3	**Amount including VAT** ✓**RT** = **0 kWh** × R2,29 + R185 × 1,15 ✓**MA** = R212,75 ✓**CA** Her claim is valid. ✓**O** **OR** **Amount including VAT** ✓**RT** = R185 × 1,15 ✓**MA** = R212,75 ✓**CA** Her claim is valid. ✓**O**		
5.3			
5.3.1	**OR** Poor drinking water quality ✓**RT** = 5% × 59 390 000 ✓**M** = 2 969 500 ✓**S**	1RT correct value 1M multiply by 5% 1S simplification (3)	
5.3.2	Probability (choosing a person with an Excellent drinking water quality) = 100% – (6,7% + 24,8% + 35,9%) ✓**MA** = 32,6% ✓**CA**	**Maximum of 2 marks only** **(2)**	
5.3.3	✓**RT** Difference = 20,4 million – 4,2 million ✓**MA** = 16,2 million ✓**CA**		

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