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EDUCATION

**NATIONAL
SENIOR CERTIFICATE**

GRADE 12

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

SYMBOL/SIMBOOL	EXPLANATION/VERDUIDELIKING
M	Method/METODE
MA	Method with Accuracy/metode met akkuraatheid
CA	Consistent accuracy/konstante akkuraatheid
RCA	Rounding consistent Accuracy/af rond 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 /af rond
AO	Answer only ,full marks/antwoord alleen vol punte

These marking guidelines consists of 06 pages

QUESTION 1		Answer Only Full Marks	
Ques	Solution	Explanation	Level
1.1.			
1.1.3.	Price in rand = $83,28 \text{ c/l} \div 100 \checkmark \text{MA}$ $= \text{R}0,8328$ $= \text{R}0,85 \checkmark \text{R}$	1MA dividing by 100. 1R rounding. (2)	F L1 E
1.1.4.	Total pump price $= \text{R}3,94 + \text{R}2,18 + \text{R}0,83 + \text{R}12,34 + \text{R}4,12 \checkmark \text{MA}$ $= \text{R}23,41 \checkmark \text{CA}$	CA from 1.1.3 1MA adding all correct values 1CA simplification (2)	F L1 E
1.2			
1.2.1.	Double bar graph $\checkmark \text{A} \checkmark \text{A}$ 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 $\checkmark \checkmark \text{RT}$ Kimberley Bloemfontein	2RT	
1.3			
1.3.3	School number 8 $\checkmark \checkmark \text{RT}$	2RT	
1.3.4	$\checkmark \text{RT}$ 293 050 : 328 000 $\checkmark \text{A}$ 5 861 : 6 560 $\checkmark \text{CA}$ OR 293 050 : 328 000 1 : 1,119262924	1RT correct values 1A correct order 1S simplification (3)	D L1 E

	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	$\% \text{ Instalment} = \frac{\text{R15 226,95}}{\text{R781 790,48}} \times 100\% \checkmark \text{RT}$ = 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	$\% \text{ Increase} = \frac{966 - 697}{697} \times 100\% \checkmark \text{RT} \checkmark \text{RT}$ $= 38,59\% \checkmark \text{CA}$ 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 $\checkmark \text{RT}$ $= R239\,452 + [41\% \times (R1\,033\,125 - R817\,600)] \checkmark \text{SF}$ $= R239\,452 + R88\,365,25 \checkmark \text{MA}$	CA from Q4.1.2 1RT correct table 1SF substituting value 1MA adding values 1CA simplification	F L3 D

	$= R327\,817,25 \checkmark CA$ Annual tax payable $\checkmark RT \quad \checkmark RT$ $= R327\,817,25 - R16\,425 - R9\,000 - R2\,997 \checkmark MCA$ $= R299\,395,25 \checkmark CA$	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	$IQR = Q_3 - Q_1$ $\checkmark MA$ $= 350 \checkmark RT - 170 \checkmark RT$ $= 180 \checkmark CA$	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		