

DEPARTMENT OF

EDUCATION

NATIONAL -SENIOR CERTIFICAET

GRADE 12

MATHEMATICAL LITERACY P1

SEPTEMBER 2023

MARKS: 150

TIME: 3 HOURS



FMLITP1

This question paper consists of 12 pages, an ANSWER SHEET and a 6-paged addendum.

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INSTRUCTIONS AND INFORMATION

- 1. This question paper consists of FIVE questions. Answer ALL the questions.
- 2. Use the ANNEXURES and ANSWER SHEET in the ADDENDUM to answer the following questions:
 - ANNEXURE A for QUESTION 1.2
 - ANNEXURE B for QUESTION 2.1
 - ANNEXURE C for QUESTION 3.1
 - ANNEXURE D for QUESTION 4.3
 - ANSWER SHEET FOR QUESTION 4.2.3
 - ANNEXURE E for QUESTION 5.3
- 3. Number the questions correctly according to the numbering system used in this question paper.
- 4. Start EACH question on a NEW page.
- 5. You may use an approved calculator (non-programmable and non-graphical), unless stated otherwise.
- 6. Show ALL calculations clearly.
- 7. Round ALL the final answers appropriately according to the context, unless stated otherwise.
- 8. Indicate units of measurement, where applicable.
- 9. Diagrams are NOT necessary drawn to scale, unless stated otherwise.
- 10. Write neatly and legibly.



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QUESTION 1

1.1 A variety of levies, taxes and margins are added when calculating the pump price the consumer pays for fuel in South Africa.

TABLE 1 below shows the breakdown of these levies, taxes and margins for December 2022.

TABLE 1: THE BREAKDOWN OF LEVIES, TAXES AND MARGINS FOR DECEMBER 2022.

COST	95 ULP PETROL/ℓ	0,05% DIESEL/ℓ	0,005% DIESEL/ℓ
General fuel levy	R3,94	R3,80	R3,79
Road accident fund levy	R2,18	R2,18	R2,18
Wholesale, Retail margins,	R4,12	R1,97	R1,94
Distribution costs			
Slate levy	83,28 cents	83,28 cents	83,28
Basic fuel price	R12,34	R15,08	R15,49
TOTAL PUMP PRICE		R23,86	R24,23

[Adapted from <u>businessinsider.co.za</u>]

Use TABLE 1 above to answer the questions that follow.

- 1.1.1 Identify the type of fuel with highest Basic fuel price. (2)
 1.1.2 Calculate the difference (per litre) in Wholesale, Retail margins and Distribution costs 95 ULP petrol and 0,05% Diesel. (3)
 1.1.3 Write down the Slate levy in rand per litre, rounded off to the nearest R0,05. (2)
 1.1.4 Determine the total pump price of 95ULP petrol per litre in December 2022. (2)
- 1.1.5 Calculate the amount paid for General fuel levy and Road accident fund levy on 0,05% Diesel. (2)



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The graph on ANNEXURE A shows the summer and winter average day temperatures in 1.2 degrees Celsius for some of the towns and cities in South Africa.

[Adapted from www.south -africa-tours-and-travels.com]

Use ANN	EXURE A and the information above to answer the questions that follow.	
1.2.1	Identify the type of graph shown above in the given set of data.	(2)
1.2.2	Name the town that recorded an average winter temperature of less than 15°C.	(2)
1.2.3	Write down the town that has lowest increase in average day temperature from winter to summer.	(2)
1.2.4	Write down the number of towns that recorded an average summer temperature of more than 30°C.	(2)
125	Identify the town that recorded the highest average winter temperature	(2)



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1.3 Nelly wants to enrol her daughter in a boarding school in 2024.

To have an idea of how much fees are charged in boarding schools, she compares fees from 10 most expensive boarding schools in South Africa, as shown TABLE 2 below.

TABLE 2: 19 MOST EXPENSIVE BOARDING SCHOOLS IN SOUTH AFRICA

Ranking	nnking		Amount of	School fees	Increase
in 2023	Name of school	in 2022	2022	2023	(Rand)
1	Hilton College	1	R 343 155	R 369 920	R 26 765
2	Michael house	2	R 328 000	A	R 14 000
3	St Andrew's College	3	R 320 064	R 340 869	R 20 805
4	Roedean School	4	R 310 994	R 337 428	R 26 434
5	St John's College	5	R 304 995	R 331 091	R 26 096
6	Kearsney College	6	R 303 710	R326 480	R 22 770
7	St Mary's School	7	R 293 050	R 313 990	R 20 940
8	Bishops Diocesan College	8	R 289 700	R 311 960	R 22 260
9	St Alban's College	10	R 287 850	R 307 350	R19 500
10	Diocesan School for Girls	12	R 276 930	R 299 100	R 22 170
[Adapted from www.briefly.co.z					

Use TABLE 2 above to answer the questions that follow.

(2) Arrange the increase amounts in ascending order. 1.3.1 Determine the missing value A, the amount of school fees payable at Michael 1.3.2 (2) house in 2023. Identify the school with the third lowest amount of school fees payable in 1.3.3 (2) 2023. Write down the boarding fee of St Mary's School to Michael House in 2022 1.3.4 (3) as a simplified ratio. [30]



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QUESTION 2

2.1		a small-scale farmer, recently bought a new car. ary of his statement of account is shown on ANNEXURE B.	
	<u> </u>	[Adapted from HomeNcar@standardbanl	c.co.za]
	Use ANI	NEXURE B to answer the questions that follow.	
	2.1.1	Write down the agreement number of Tsheola's account.	(2)
	2.1.2	Calculate the VAT amount included in the monthly service fee.	(3)
	2.1.3	Calculate the missing value B, the total monthly payment.	(2)
	2.1.4	Determine the instalment amount as a percentage of the purchase price.	(3)
	2.1.5	Calculate the total amount that Tsheola will pay after 6 years.	(4)
2.2	Tsheola	has an investment to the total value of R200 000 which will mature after 2½ ye	ears.
	10110014	[Adapted from www.investo	
	Use AN	NEXURE B and the information above to answer the questions that follow.	
	2.2.1	Tsheola stated that if he reinvests the amount for a further 2½ years, at an interest rate of 7, 8% compounded annually, he will have enough money for the balloon payment.	
		Verify, showing ALL calculations, whether his statement is valid.	(8)
	2.2.2	Give ONE possible reason why buying a car on a balloon payment is NOT a better option.	(2)
2.3	•	rage price of a brown loaf of bread (700g) in South Africa is R18, 99 in 2023. ation rate for 2022 was 6,9% and in 2021 it was 4, 5%.	
		[Adapted from www.statssa	.gov.za
	Use the	information above to answer the questions that follow.	
	2.3.1	Define the term inflation in the given context.	(2)
	2.3.2	Tsheola stated that the price of a loaf of bread in 2021 was less than R13, 99. Verify, showing ALL calculations, whether his statement is valid.	(6) [32]

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OUESTION 3

In South Africa, tourism is recognised as an important sector for economic growth and development. ANNEXURE C shows the number of tourists who visited South Africa by month and year of travel, 2017, 2018 and 2019.

[Adapted from www.statssa.gov.za]

(2)

Use ANNEXURE C to answer the questions that follow.

March 2018 to June 2018.

Identify the month in which South Africa had the highest number of tourists 3.1.1 (2) in all the 3 years. Write down the number of tourists who visited South Africa in December 3.1.2 (2) 2018 in words. Determine the probability, as a decimal, of randomly selecting a month in 3.1.3 which the number of tourists is more than 900 000 in 2017. (3) Calculate the mean number of tourists who visited South Africa in 2019. (4) 3.1.4 Describe the trend in the number of tourists visiting South Africa from 3.1.5



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Jerry, one of the visitors who visited South Africa in 2019 is considering taking his family on vacation to Robberg Nature Reserve in the Western Cape Province.

He obtained the information in TABLE 3 about the level of crime in the Province on the internet.

TABLE 3: QUARTER TWO CRIME STATISTICS IN THE WESTERN CAPE FROM 2020 TO 2022.

Crime category	July to Sept 2020	July to Sept 2021	July to Sept 2022	% Change
Murder	1 013	1 011	1 050	3,9
Sexual offences	1 664	1 468	1 815	23,6
Common Robbery	1 925	1 965	2 501	27,3
Carjacking	838	697	966	
Arson	174	153	201	31.4
Burglary	7 247	6 291	7 078	12,5
Theft from motor vehicles	6 365		6 467	20,8
Commercial crime	3 443	4 249	5 661	33,2
Commercial critical			[Adapted fi	om <u>saps.gov</u>

Use TABLE 3 above to answer the questions that follow.

- 3.2.1 Determine the value of Quartile 2, for the number of crimes committed in 2020. (3)
- 3.2.2 If the number of cases for theft from vehicles increased by 20,8% in 2022. Calculate to the nearest hundred, the number of cases from motor vehicles in 2021. (4)
- Calculate the percentage change in the number of Carjacking between 2021 and 2022.

You may use the following formula:

- $\% Increase = \frac{\text{Number of Carjacking in 2022-Number of Carjacking in 2021}}{\text{Number of Carjacking in 2021}} \times 100\%$ (3)
- 3.2.4 State, giving a reason, whether the data given in the % change column, is discrete or continuous data.



(2)

[25]

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QUESTION 4

- Leon aged 75, earned an annual income of R1 225 000 for the financial year ending on 4.1 28 February 2023.
 - He contributed 7,5% of his annual income towards Pension fund.
 - He donated R100 000 to his neighbouring school.

TABLE 4 below shows tax table for the 2022/2023 tax year.

TABLE 4: INCOME TAX RATES FOR THE 2022/2023 TAX YEAR.

Taxable Income(R)	Rates of tax (R)
1 - 226 000	18% of taxable income
226 001 – 353 100	40 680 + 26% of taxable income above 226 000
353 001 – 488 700	73 726 + 31% of taxable income above 353 100
488 701 – 641 400	115 762 + 36% of taxable income above 488 700
641 401 – 817 600	170 734 + 39% of taxable income above 641 400
817 601 – 1 731 600	239 452 + 41% of taxable income above 817 600
1 731 601 and above	614 192 + 45% of taxable income above 1 731 600

REBATES (2022/2023)	
Primary	16 425
Secondary (65 and older)	9 000
Tertiary (75 and older)	2 997

[Adapted from www.SARS.gov.za]

Use TABLE 4 and the information above to answer the questions that follow.

- Determine the amount Leon contributes towards pension fund. (2) 4.1.1
- (2) Calculate Leon's taxable income. 4.1.2
- Calculate the amount of annual tax Leon must pay for 2022/2023 tax year. (8) 4.1.3



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Leon's niece, Betty sells lunch packs for extra money. It costs her R55 to make one lunch pack. 4.2

TABLE 5 shows the Cost Price and Income received from 60 lunch packs.

TARIES COST	AND INCOME RECEIVED FRO	M 60 LUNCH PACKS
LABIANIMINAL	AND INCOME RECEIVED INC.	I'I OO LIOT CAA TAGELA

Number of lunch packs	0	10	20	30	45	60
Cost price in rand (R)	300	850	1 400	1 950	2 775	3 600
Income in rand (R)	0	700	1 400	2 100	3 150	4 200
meetic in tune (14)	L			A dantad from	www.mylunc	hhuddy co 78

[Adapted from www.mylunchbuddy.o

Use TABLE 5 above to answer the questions that follow.

- (2)Determine the selling price of one lunch pack. 4.2.1
- Write down the equation that can be used to calculate the cost of the lunch 4.2.2 (2) packs.
- The graph on the ANSWER SHEET shows the total income received from 4.2.3 selling 100 lunch packs.
 - Use TABLE 5 to draw on the same answer sheet another graph representing (3) the cost for making the lunch packs
- Calculate the amount of profit Betty will make from the sale of 100 lunch 4.2.4 (5) packs if the income received is R7 000.
- Betty will include a soda in the lunch packs. To help her decide which sodas she must put in 4.3 the lunch packs she studied the available data for three most popular drinks sold in her neighbourhood.

The box and whisker plots in ANNEXURE D show the number of drinks sold on a particular Monday.

[Adapted from www.tasteatlas.com]

Use the box and whisker plots in ANNEXURE D to answer the questions that follow.

- (2) Write down the 75th percentile of Orange juice drink. 4.3.1
- (4) Calculate the interquartile range of the Cola drink. 4.3.2 [30]



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QUESTION 5

Taryn who stays in Cape Town is considering relocating to Johannesburg. In order to understand the financial implications of relocating, she compares the electricity tariffs for the two cities as shown in TABLE 6 below.

TABLE 6: ELECTRICITY TARIFFS FOR CAPE TOWN AND JOHANNESBURG.

CAPE TO	WN: ELECTRICITY TARIFFS-H	IOME USER (VAT excl.)	
Block 1	0 – 600 kWh	R 2,29 / kWh	
Block 2	> 600 kWh R 3,15 / kWh		
Monthly se	ervice charge	R 185,00	
JOHANN	ESBURG: ELECTRICITY TARII	FFS-RESIDENTIAL (VAT incl.)	
Block 1	0-500 kWh	R 2,02 / kWh	
Block 2	500 – 1000 kWh	R 2,31 / kWh	
Block 3	1000 - 2000 kWh	R 2,49 / kWh	
Block 4	2000 – 3000 kWh	R 2,62 / kWh	
Block 5	> 3000 kWh	R 2,75 / kWh	
Monthly service chargesphysics.com		R 209,23	
Monthly capacity charge		R 616,37	
		om www.capetown.gov.za and www.joburg.org	

Use TABLE 6 and the information above to answer questions that follow.

- 5.1.1 Write down the monthly capacity charge of Johannesburg to the nearest ten rand. (2)
- 5.1.2 Taryn uses on average 850 kwh of electricity per month.

 Determine the difference in the cost of electricity between the two cities if the cost including VAT for Cape Town is R2 698,48. (6)
- 5.1.3 Taryn claimed that if she does not use any electricity for a month she will only pay R212,75 in monthly service charges including VAT in Cape Town.
 - Verify, showing ALL calculations, whether her statement is valid. (4)
- 5.1.4 Explain how the monthly service and monthly capacity charges affect the residents. (2)



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5.2 Taryn bought a dress for £60 and a coat for 1500 MZM.

MZM = Mozambican Metical ZAR = South African Rand

TARDE 7: EXCHANGE RATES AS OF 22 APRIL 2023

TADDE I. DACTION IO	1120110 01 22 12 1
1£ = 22,489624 ZAR	1 MZM = 0.282437 ZAR
1 ZAR = 0,0444648 £	1 ZAR = 3,54338 MZM
	T

[Adapted from www.xe.com]

Use TABLE 7 and the information above to answer question that follow.

- 5.2.1 Define the term *exchange rate* in the given context. (2)
- 5.2.2 Calculate the total amount, rounded to the nearest rand (ZAR), that Taryn spent for the dress and the coat. (6)
- The pie charts below show the population of India and South Africa affected by the quality of drinking water. The population of South Africa was 59,39 million people.

[Adapted from www.nytimes.com]

Use ANNEXURE E and answer the questions that follow.

- 5.3.1 Calculate the total number of people with Poor drinking water quality in South Africa. (3)
- Calculate the probability, as a percentage, of choosing a person with Bad drinking water quality in India. (5)
- 5.3.3 Calculate the difference of the number of people in the excellent category affected by the quality of drinking water in the countries.

TOTAL MARKS: 150

(3)

[33]



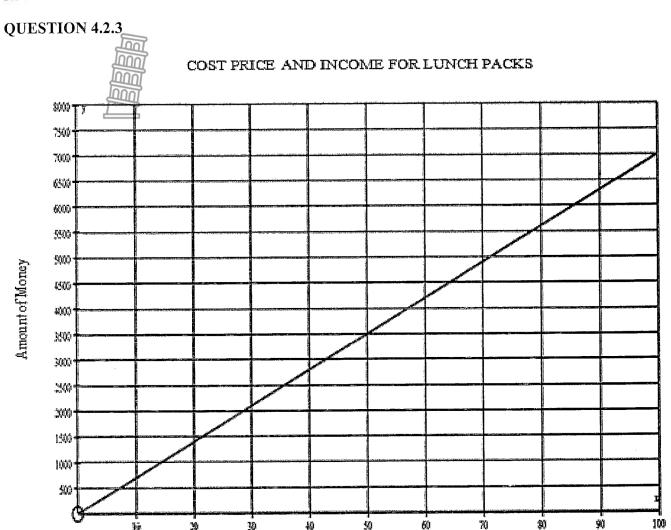
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ANSWER SHEET

NAME OF THE CANDIDATE:



Number of Lunch Facks







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SEPTEMBER 2023
ADDENDUM



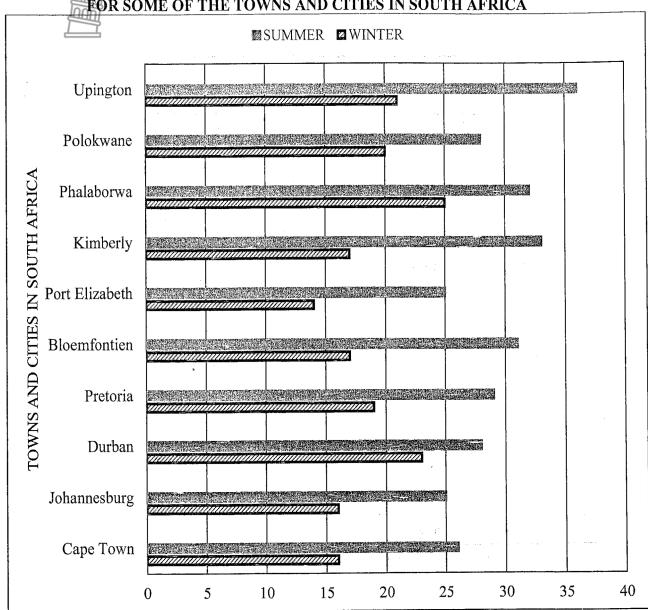
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This ADDENDUM consists of 6 pages with 5 ANNEXURES.

ANNEXURE A

QUESTION 1.2

THE SUMMER AND WINTER AVERAGE DAY TEMPERATURES IN DEGREES CELSIUS FOR SOME OF THE TOWNS AND CITIES IN SOUTH AFRICA



TEMPERATURES IN DEGREES CELSIUS

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ANNEXURE B

QUESTION 2

SUMMARY OF TSHEOLA'S STATEMENT OF ACCOUNT

STATEMENT O	OF ACCOUNT
	ABC BANK
	P.O.BOX 8296
	JOHANNESBURG
TO: Mr. TS Tsheola	
1341 Glen Norton Road	
BENONI;1401	Statement period:01/02/2023 - 28/02/2023
	Agreement Number: 00020117934
TRANSACTION DETAILS	
Purchase Price	R 781 790,48
PAYMENT INFORMATION	
Instalment	R 15 226,95
Monthly service fee	*R 69,00
Total monthly payment	В
ACCOUNT SUMMARY	
Contract period	6 years
Payment frequency	Monthly
Customer Rate	17,34%
Balloon / Residual	R 283 560,10
NOTE: This item is inclusive of 15% VAT.	
Balloon payment is a lump sum payment made	at the end as your final instalment.
Balloon payment is a tump sum payment made Balloon payment serves as instalment number	72
Danoon payment serves as instantione number	(=



Mathematical Literacy P1

ANNEXURE C

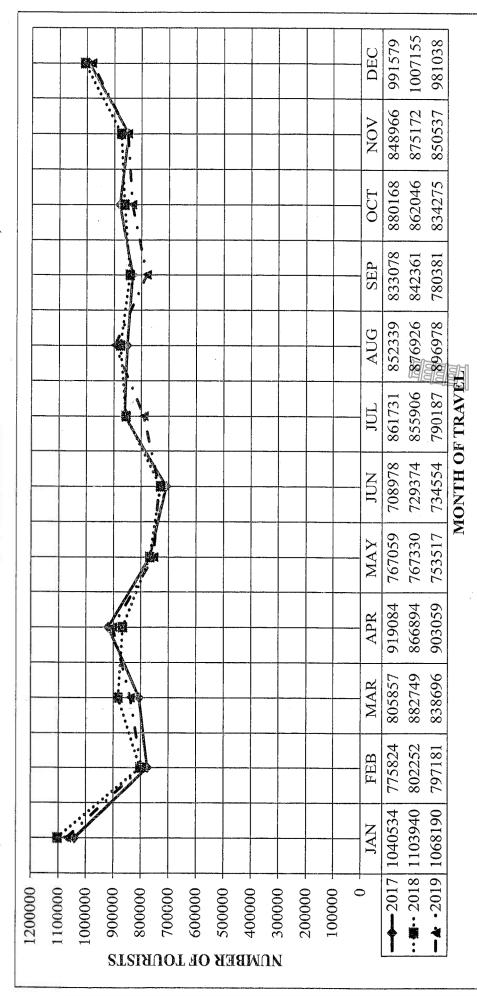
QUESTION 3

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THE NUMBER OF TOURISTS WHO VISITED SOUTH AFRICA BY MONTH AND YEAR OF TRAVEL: 2017, 2018 AND 2019.

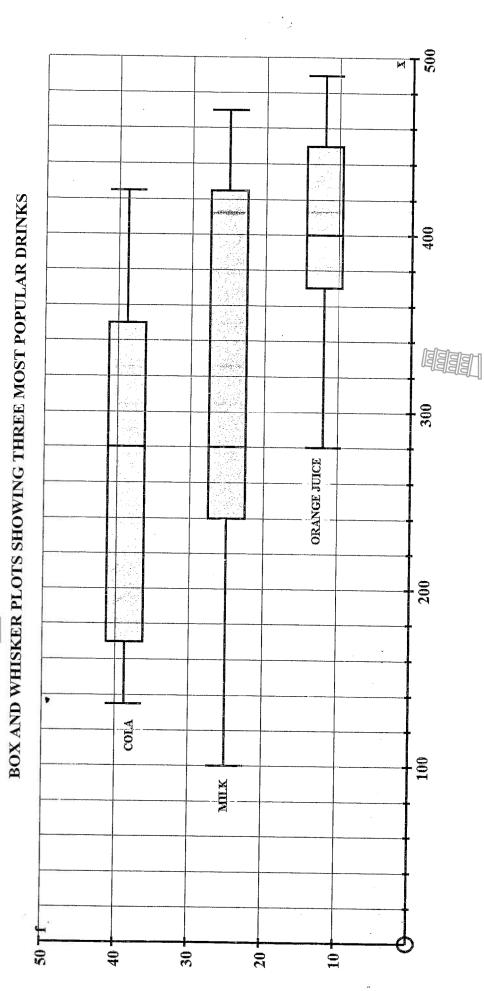


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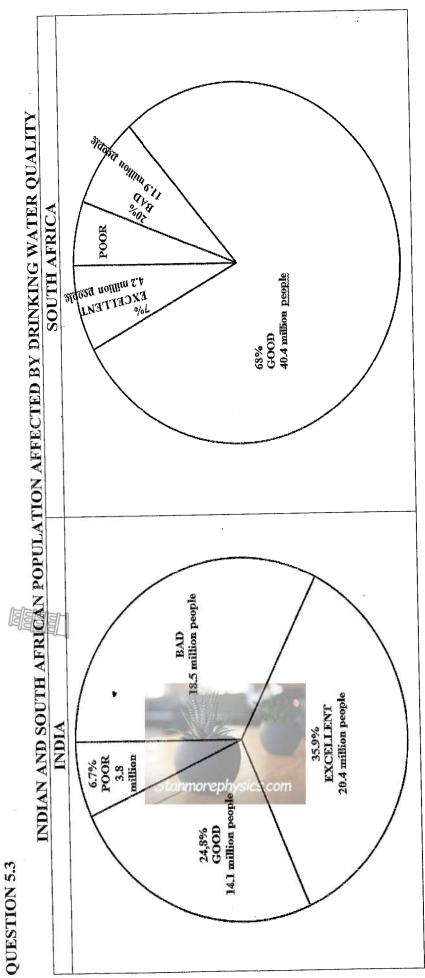
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ANNEXURE E





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PROVINCIAL GOVERNMENT

REPUBLIC OF SOUTH AFRICA



EDUCATION

NATIONAL SENIOR CERTIFICATE

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MATHEMATICAL LITERACY P1 PREPARATORY EXAMINATION SEPTEMBER 2023

MARKING GUIDELINES (ERRATA)

SYMBOL/SIMB	SYMBOL/SIMBOEXPLANATION/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		
0	Explanation/ verduideliking		
C	Conversion/omskakeling		
S	Simplification/vereenvoudiging		
RT/RG/RD/RM	RReading 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		
	440		

These marking guidelines consists of 06 pages

Λ.		er Only Full Marks	
Ques	Solution	Explanation	Level
1.1.			
1.1.3.	Price in rand = $83,28 \text{ c/l} \div 100 \checkmark \text{MA}$	1MA dividing by 100.	F
	R0,8328		L1
	R0,85 ✓R	1P rounding	E
	K0,83 V K	1R rounding.	
4 4 4	100	(2)	-
1.1.4.		CA from 1.1.3	F L1
	Total pump price		E
	$= R3,94 + R2,18 + R0,83 + R12,34 + R4,12 \checkmark MA$	1MA adding all correct	
	= R 23,41 ✓ CA	values	
	- K 25,41 V CA	1CA simplification	
1.0		(2)	
1.2.1.	Double bar graph ✓A✓A	1A correct type	D
1.2.1.	Double out graph A A		L1
	OR	1A bar graph	E
		(2)	
	Horizontal double bar graph		
	OR		
	Multiple bar graph		
	OR		
	Compound bar graph		
1.2.4	ACCEPT	2RT	
	Upington		
	Phalaborwa ✓ ✓ RT		
	Kimberley		
	Bloemfontein		
1.3			
1.3.3	School number 8 ✓✓RT	2RT	
1.3.4	✓RT	1RT correct values	D
	293 050 : 328 000 ✓A	1A correct order	L1
	5 861 : 6 560 ✓CA	1S simplification (3)	E
	OR	(3)	
	293 050 : 328 000		
	1:1,119262924		

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	NSC		
	OR		
	202.050 . 229.000		
	293 050 : 328 000		
	0,893445122 : 1		
OUES	TION 2		
Ques	Solution	Explanation	Level
2.1.			
2.1.3	Total monthly payment(P) = R15 226,95 + R 69,00 \checkmark MA	1MA adding correct	F
	AND	values	L2
	= R15 295,95 ✓A	1A simplification	E
		(2)	
214	./рт	AO	
2.1.4	✓RT	1DT Numerator	
	% Instalment = $\frac{R15\ 226,95}{2} \times 100\% \checkmark RT$	1RT Numerator 1RT Denominator	
	R781 790,48	TRT Denominator	
	10 No. 10	100	F
	= 1,947702152% ✓CA	1CA simplification	L3
	OR	NPR	M
		(3)	IVI
	= 1,948		
	OR		
	= 1,95%		
	OR		
	= 2%		
2.1.5	Total amount		
	✓A		
	= R15 295,95 × 71 months + R283 560,10 ✓ MA		
	= R1 086 012,45 + R283 510,10 ✓ S		
	2000 W4 COOK		
	= R1 369 572,55 ✓CA		



OUES	STION 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	1RT Numerator 1RT Denominator	
	= 38,59% ✓CA	1CA simplification	F L3
	OR = 38,6%	NPR (3)	M
	OR		
	= 39%		
QUES	STION 4		
Ques	Solution	Explanation	Level
4.1			
4.1.3	Annual tax ✓RT	CA from Q4.1.2 1RT correct table 1SF substituting value	F L3
	GRANING CO.		D
	$= R239 452 + [41\% \times (R1 033 125 - R817 600)] \checkmark SF$ $= R239 452 + R88 365,25 \checkmark MA$	1MA adding values 1CA simplification	

4.3.1	= 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 The Examiner indicates that learners should have used a ruler	1RT for R16 425 1RT for R9 000 1MCA subtracting correct values 1CA simplification (8)	
4.3.2	to measure the exact point. NO RANGE SHOULD BE USED. $IQR = Q_3 - Q_1$		
	\checkmark MA $= 350 \checkmark RT - 170 \checkmark RT$ $= 180 \checkmark CA$	1MA concept of IQR	



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		
	$ \begin{array}{l} \checkmark RT \\ = R185 \times 1,15 \checkmark MA \end{array} $		
	= R212,75 ✓ CA Her claim is valid. ✓ O		
5.3			
5.3.1	OR	8	
	Poor drinking water quality		
	✓RT	1RT correct value	
	$= 5\% \times 59 \ 390 \ 000 \ \checkmark \mathbf{M}$	1M multiply by 5%	
	= 2 969 500 ✓ S	1S simplification (3)	
5.3.2	Probability (choosing a person with an Excellent drinking water quality)		
	$= 100\% - (6.7\% + 24.8\% + 35.9\%) \checkmark MA$	M	
	= 32,6% ✓CA	Maximum of 2 marks only (2)	
5.3.3	✓RT		
	Difference = $20.4 \text{ million} - 4.2 \text{ million} \checkmark MA$		
	= 16,2 million ✓CA		

