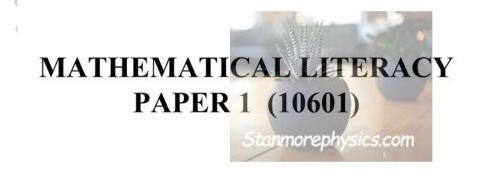
PREPARATORY EXAMINATION 25



MATHEMATICAL LITERACY: Paper 1



10601E

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PREPARATORY EXAMINATION 2025

SUBJECT NAME		1	MA	AT.	HE	ZM.	ΑT	ICA	L LITERAC	Y (1060	01)
TEACHER									PAPER NUMBER	1	
DATE	D	D	М	М	Y	Y	Y	Y	BOOK NUMBER	OF	BOOK(S)
CANDIDATE'S NAME									2		
NAME OF SCHOOL											

ANSWER ALL THE QUESTIONS IN THE QUESTION PAPER.

	MARKER			TOR'S INITIALS IN REI BLOCK	.EVANT
Question	Marks	Marker's Code & Initials	Marks		
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Question	Marks	Initials
1		
2		
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5		
TOTAL		

TIME: 3 hours

MARKS: 150

19 pages

INSTRUCTIONS AND INFORMATION

Read the following instructions carefully before answering the questions.

- This question paper consists of FIVE questions. Answer ALL questions in the spaces provided.
- 2. Show ALL calculations clearly.
- 3. You may use an approved scientific calculator (non-programmable and non-graphical), unless stated otherwise.
- 4. Round-off ALL final answers appropriately according to the given context, unless stated otherwise.
- 5. Indicate units of measurement, where applicable.
- 6. Diagrams are NOT necessarily drawn to scale, unless stated otherwise. Show ALL calculations, diagrams, graphs, etc. that you have used in determining your answers.
- 7. No pages may be torn from this question paper.
- 8. Candidates may not retain a question paper or remove it from the examination room. Question papers must be returned to the invigilator at the end of the examination session.
- Answers must be written in black/blue ink as distinctly as possible. Do NOT write in the margins.
- 10. Indicate the questions you have answered by drawing a circle around the relevant numbers on the front cover of the question paper where marks are to be recorded.
- 11. Draw a neat line through any work/rough work that must NOT be marked.
- 12. In the event that you use the additional space provided:
 - 12.1 Write down the number of the question.
 - 12.2 Leave a line and rule off after your answer.
- 13. Write neatly and legibly.

COLUMN B

QUESTION 1

1.1 TABLE 1 below gives definitions and terminology used in Mathematical Literacy.

COLUMN A

Match the terminology in COLUMN B with the definitions in COLUMN A. Write only the letter (A - G) next to the question numbers (1.1.1 to 1.1.5), e.g. 1.1.6 H.

TABLE 1: TERMINOLOGY USED IN MATHEMATICAL LITERACY

	Definitions		Terminology	
1.1.1	The value of one currency relative to the value of another currency	A	Income tax	
1.1.2	The rate charged per unit for services or products	В	Inflation	
1.1.3	Compulsory tax charged for the consumption of	С	Debit	
1.1.4	goods and services An entry into the account which shows money paid	D	Exchange rate	
1.1.1	into the account	Е	Value added tax	
1.1.5	An increase in the price of a basket of goods or services that represents the economy as a whole	F	Tariff	
5.1		G	Credit	
1.1.1				
201				(2)
1.1.2				
				(2)
1.1.3)	
				(2)
1.1.4				
		Ė		(2)
1.1.5				
				(2)

1.2 Traffic delays and fatalities are caused by an increase in the number of vehicles on the road. Statistics South Africa has recorded the number of registered vehicles in South Africa per province from March 2023 – March 2024. Study TABLE 2 below and use it to answer the questions that follow.

TABLE 2: NUMBER OF REGISTERED VEHICLES PER PROVINCE FROM MARCH 2023 – MARCH 2024

PROVINCE	MARCH 2023	MARCH 2024
Gauteng	4 997 033	5 070 287
KwaZulu-Natal	1 747 336	1 773 639
Western Cape	2 116 228	2 155 489
Eastern Cape	857 643	A
Free State	646 258	ephysic 647 154
Mpumalanga	923 790	933 276
North-West	662 205	667 632
Limpopo	779 682	792 815
Northern Cape	293 658	295 238
Republic of South Africa	13 023 833	13 195 793

[Adapted from Stats SA: Road traffic accident report]

1.2.1	Which province registered the second-highest number of vehicles in March 2023?	
		(2)
1.2.2	Write down the number of vehicles registered in the Republic of South Africa in March 2023 in words.	-
		(2)
1.2.3	Calculate the missing value of A , the number of vehicles registered in the Eastern Cape in March 2024.	-
		(2)

1.2.4	Express the number of vehicles registered in the Free State in March 2024 as a percentage of the total number of vehicles registered in the Republic of South Africa in March 2024.	
		-
		(3)
1.2.5	Determine the difference between the number of vehicles registered in the Northern Cape and the North-West in March 2024.	
		(3)
1.2.6	Identify the province that had the highest number of registered vehicles in March 2024.	
		(2)

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1.3 Busi extracted part of her municipal account statement to check the amount she has to pay towards her bills. Study TABLE 3 below and answer the questions that follow.

TABLE 3: EXTRACT FROM BUSI'S MUNICIPAL ACCOUNT STATEMENT

DATE	DETAILS	VAT EXCLUSIVE AMOUNT (R)	VAT (R)	VAT INCLUSIVE AMOUNT (R)
12/12/2024	Balance brought forward	1 749,70	0,00	1 749,70
24/12/2024	Payment	-200	0,00	-200
25/12/2024	Payment	-1 330	0,00	-1 330
12/01/2025	SUB-TOTAL (A)	219,70	0,00	219,70
	•		Bounder	100
12/01/2025	Property rates #	305,00	0,00	305,00
12/01/2025	Water	161,42	24,21	185,63
12/01/2025	Sanitation	95,13	14,27	109,40
	VAT 15%	0,00	nmoreph	sics.com ^{0,00}
TOTAL LEV	YY (B)	561,55	С	600,03
T-4-1	t payable (A + B)	D		819,73

Note: # means zero rated.

1.3.1	Identify the zero-rated service from the municipal account statement.	
	· · · · · · · · · · · · · · · · · · ·	(2)
1.3.2	Determine the value of C , the VAT charged.	
ž X		(2)
1.3.3	Show, by means of calculations, that the value of D , the VAT-exclusive total payable amount, is R781,25.	

[30]

QUESTION 2

- 2.1 Tshidi sells traditional belts.
 - The cost of producing each belt is R90.
 - She sells each belt for R270.
 - She pays a monthly rental fee of R800 for a stall and a monthly rental fee of R100 for the machine she uses to produce the belts.



TABLE 4: INCOME AND EXPENDITURE OF SELLING TRADITIONAL BELTS

Number of items	0	1	4	5	7	P
Income (R)	0	270	1 080	1 350	1 890	2 160
Expenses (R)	A	990	1 260	1 350	1 530	1 620

Study the information given and TABLE 4 above to answer the following questions.

2.1.1 Calculate the total fixed costs (A) of selling the traditional belts.

		(2)
2.1.2	Show that the income that Tshidi will receive from selling 5 traditional belts is R1 350.	
	j.	
		(2)
2.1.3	Determine the value of P .	
0		
0		
		(3)

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2.1.4	(a)	Identify the break-even coordinates from the table above.	
			(2)
144 145			
	(b)	Hence, determine the number of traditional belts that Tshidi must sell to start making a profit.	
			(2)
	12.00		(2)
2.1.5		plete the formula for calculating the total expenses, where N represents umber of traditional belts. Write your answer/formula in the form:	
19	Tota	l expenses =	(2)
2.1.6	TT	1 days :	
2.1.0		e, determine the profit that Tshidi will make from selling 100 belts.	
	You	may use the formula: Profit = Income – Expenses	
			(6)

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2.2 Tshidi received an order from the local church to produce 250 traditional belts. She borrowed R60 000 from a local bank at an interest rate of 12% p.a., compounded annually.

2.2.1	Determine the total amount that she will repay, if she repays the loan in 1 year and 6 months.	
2		
)		-
		-
iv.		-
ii.		
		(8)
2.2.2	Hence, determine the amount of interest that she will repay.	-
		(2)

[29]

QUESTION 3

3.1 Lucky extracted the summary of matric results from the matric results report to determine the variance of each province. Study the summary in TABLE 5 and answer the questions that follow.

TABLE 5: 2023 AND 2024 MATRIC RESULTS OF EACH PROVINCE

D	Total number of learners who	Pass %	
Province	wrote (in millions)	2023	2024
Eastern Cape	0,505	80,6	T
Free state	0,199	89,7	91,9
Gauteng	0,741	86,3	88,5
KwaZulu-Natal	0,951	80,2	84,7
Limpopo	0,523	83,1	88,6
Mpumalanga	0,381	78	83,5
North-West	0,231	82,3	86,6
Northern Cape	0,073	S	76,5
Western Cape	0,354	ore 82,4/51	com

[Adapted from DBE matric results report of 2024]

^{*}Variance: Difference between the pass % of 2023 and 2024.

3.1.1	Write down the total number of learners who wrote the examination from the Gauteng province in number format.	
		(2)
3.1.2	Identify the province with less than 100 000 learners.	
		2
		(2)
3.1.3	What is the trend observed from the results presented in TABLE 5 above? Give a reason for the answer.	
	1 1	
		:
2		(3)

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3.1.4	Is the data represented in TABLE 5, COLUMN 2 (total number of learners who wrote) discrete or continuous? Explain the answer.	
	wrote) discrete or continuous? Explain the answer.	-
		(2)
3.1.5	Determine the value of S , the minimum pass % if the range of the 2023 pass percentage is 14,3%.	
	You may use the formula:	
	Range = Maximum Value – Minimum Value	
		-
		(3)
216	G.1. 1.4. d 1 C.T.;Cd	
3.1.6	Calculate the value of T if the mean of the 2024 pass percentage is 85,5%.	
		-
		1
		-
		-
		-
		1
		(5)

3.2 Lucky extracted the data from the 10 education districts with the highest number of high risk learners to investigate their performance from the matric results. Study TABLE 6 below and answer the questions that follow.

TABLE 6: MATHEMATICAL LITERACY DATA OF 2024 CANDIDATES

District	Total wrote	Total number of high risk learners
Ekurhuleni North	15 953	911
Ekurhuleni South	18 679	865
Gauteng East	11 618	1 161
Gauteng West	11 208	926
Johannesburg Central	hv=13-4205m	1 095
Johannesburg East	11 988	946
Johannesburg West	9 526	824
Tshwane North	10 451	783
Tshwane South	15 657	1 060
Tshwane West	12 585	837

[Adapted from GP report 2024]

3.2.1	Express, as a ratio in unit form, the total number of high risk learners in the Tshwane South District to the total number who wrote from Tshwane South.			
			(3)	
3.2.2	Arrange the numb	per of high risk learners from all districts in ascending order.		
		ř	(2)	
3.2.3	Hence, complete learners.	e the five-point summary table for the total number of high risk		
	Show ALL calcu	ulations.		
		Five-point summary		
	Minimum			
	Q1			
	Median			
	Q3			
	Maximum		(6)	
			(6) [28]	

QUESTION 4

4.1 Thelma is a 67-year-old manager at Zenzele Holdings.

She receives an annual salary of R680 000. She will also receive a bonus equal to her monthly salary during the 2025 tax year.

She donates 30% of her annual salary to the local orphanage.

Use TABLE 7 below to answer the questions that follow.

An individual can donate a maximum of R100 000 over a period of 1 tax year.

TABLE 7: Tax year 1 March 2025 to 28 February 2026

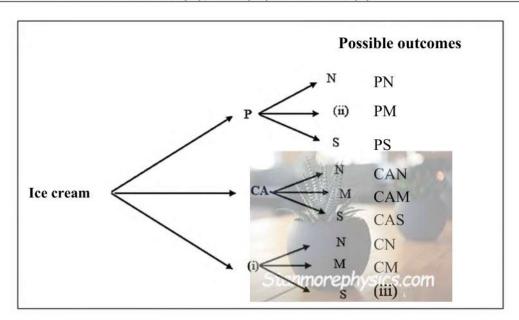
Taxable income (R)	Rates of tax (R)
1 - 237 100	18% of taxable income
237 101 - 370 500	42 678 + 26% of taxable income above 237 100
370 501 - 512 800	77 362 + 31% of taxable income above 370 500
512 801 - 673 000	121 475 + 36% of taxable income above 512 800
673 001 - 857 900	179 147 + 39% of taxable income above 673 000
857 901 - 1 817 000	251 258 + 41% of taxable income above 857 900
1 817 001 and above	644 489 + 45% of taxable income above 1 817 000

Tax Rebate	Tax Year	
	2025	
Primary	R17 235	
Secondary (65 and older)	R9 444	
Tertiary (75 and older)	R3 145	

4.1.1	Determine the rebate amount for which Thelma qualifies.	
	,	
)	
		(2)

4.1.2	Calculate her annual gross salary.	
		(4)
4.1.3	Show, with calculations, that Thelma's annual donation is R100 000.	
4.1.3	Show, with calculations, that Therma 8 annual donation is K100 000.	
		(3)
4.1.4	Hence, determine Thelma's annual taxable income.	
		(3)
4.1.5	Use TABLE 7 to identify her tax bracket.	
		(2)
4.1.6	Thelma claimed that a person under the age of 65, with a taxable income of	Ī
4.1.0	R95 750 per annum does not qualify to pay tax in the 2025 tax year. Show,	
	using calculations, whether her claim is valid or not.	
	Stanmorephysics.com	_
		_
		(6)

- 4.2 Thelma went to a local restaurant to buy ice cream.
 - The ice cream may be plain (P), dipped in caramel (CA) or dipped in chocolate (C).
 - She can decorate it with nuts (N), mint (M) or Smarties (S).



Use the information and the tree diagram above to answer the questions that follow.

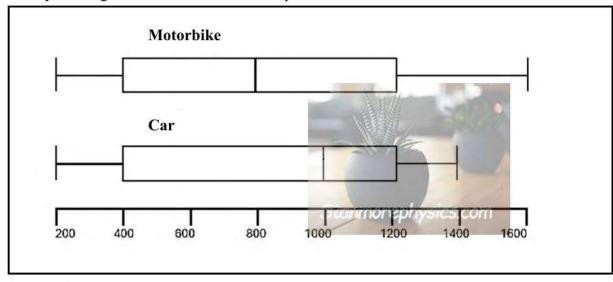
4.2.1	Complete the tree diagram in the spaces prov	rided below.
	(i)	
	(ii)	
	(iii)	
		(3)

	answer as a decimal, rounded-off to ONE decimal place.

.2.3 Name ONE advantage of selling different flavours of ice cream.

QUESTION 5

5.1 Pule has a business delivering goods to various companies. The diagram below represents the weekly income of the drivers, grouped according to the mode of transport that they use. Study the diagram below and answer the questions that follow.



5.1.1	Which mode of transport generates more income? Motivate your answer.	
		1
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5.1.2	The company has 300 motorbike drivers. How many motorbike drivers are generating an income greater than the upper quartile?	
		(3)

5.1.3	The maximum income for motorbike drivers represented on the graph was increased by 20% due to the high demand. Calculate the original maximum income before the increase.	
6 V		(4)

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	5.1.4	Determine the inter-quartile range of the income generated by car drivers.	
			(3)
5.2	Pule or	dered more motorbikes from India and paid 3 000 Indian rupees for shipping.	
	The cos	st of each motorbike is 12 000 Indian rupees.	
		1 Indian rupee (INR) = 0,21 South African Rand (ZAR)	
	5.2.1	Which currency is stronger between the South African rand and the Indian rupee? Explain.	
			(3)
	5.2.2	Will R30 000 be enough to buy 12 motorbikes and pay for shipping? Show ALL calculations.	
		j)	
			
			(7)

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1	0
	a

	5.2.3	Name TWO advantages of buying items online.	
			====
			(4)
		T. C.	
5.3	Thuli p increas	aid R270 to refill her 4 kg gas canister. It was announced that gas prices would e to 6 761 cents per kg in February. Calculate the expected percentage increase.	
	You m	ay use the following formula:	
		Percentage increase = $\frac{\text{New price} - \text{Old price}}{\text{Old price}} \times 100\%$	
		The state of the s	
)	
			(7)
			[34]

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TOTAL: 150



PREPARATORY EXAMINATION 2025

MARKING GUIDELINES

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MATHEMATICAL LITERACY (PAPER 1) (10601)

10 pages

CODES	EXPLANATION
M	Method
MA	Method with accuracy
CA	Consistent accuracy
A	Accuracy
C	Conversion
D	Define
J	Justification/Reason/Explain
S	Simplification
RT/RD/RG/RS	Reading from a table/ graph/diagram/map/plan/source
F	Choosing the correct formula
SF	Correct substitution in a formula
0	Opinion
P	Penalty, e.g. for no units, incorrect rounding-off, etc.
R	Rounding-off
NP	No penalty for omitting units
NPR	No penalty for rounding-off

KEY TO TOPIC SYMBOLS:

F = Finance; DH = Data Handling; P = Probability

QUE	QUESTION 1 ANSWER ONLY FULL MARKS (30 marks)				
Q	Answei	•	Explanation	Topic Level	Mark
1.1	1.1.1	D✓✓A	2 A correct answer Accept exchange rate	F1	2
	1.1.2	F✓✓A	2 A correct answer Accept tariff	F1	2
	1.1.3	E✓✓A	2 A correct answer Accept Value Added Tax	F1	2
	1.1.4	G✓✓A	2 A correct answer Accept credit	F1	2
	1.1.5	B✓✓ A	2 A correct answer Accept inflation	F1	2
1.2	1.2.1	Western Cape ✓✓ RT	2 RT correct Province	DH1	2
	1.2.2	Thirteen million and twenty-three thousand eight hundred and thirty three.	2 A correct answer	DH1	2
	1.2.3	13 195 793 - (5 070 287 + 1 773 639 + 2 155 489 + 647 154 + 933 276 + 667 632 + 792 815 + 295 238) ✓ MA = 860 263 ✓ A	1 MA subtracting all correct values 1A correct answer	DH1	2
	1.2.4	$ \frac{647 \cdot 154}{13 \cdot 195 \cdot 793} \checkmark RT \times 100 \checkmark MA $ = 4.904 % \checkmark A	1 RT correct values 1MA percentage 1 A correct answer NPR	DH1	3
	1.2.5	667 632 - 295 238 VRT VMA = 372 394 VA	1 RT correct values 1 MA subtracting correct values 1 A correct answer Accept -372 394	DH1	3
	1.2.6	Gauteng Province ✓✓RT	2 RT correct answer Accept GP	DH1	2

1.3	1.3.1	Property rates ✓✓ RT	2 RT correct answer	F1	2
	1.3.2	C = R24,21 + R14,27 \checkmark MA = R38,48 \checkmark A OR C = 600,03 - 561,55 \checkmark MA = 38,48 \checkmark MA OR C = 561,55 - 305 = 256,55 × 15% \checkmark MA	1MA adding/ subtracting the correct values 1A correct answer NPR	F1	
		= R38,48 ✓ MA			2
	1.3.3	R219,70 + R561,55 ✓ RT ✓ MA = R781,25 OR R819,73 - R38,48 ✓ RT ✓ MA = R781,25	1RT both values 1MA adding/subtracting correct values	F1	
			8		2
					[30]

QUESTION 2 (29 mar				9 marks)	
Q	Answer	9.	Explanation	Topic Level	Mark
2.1	2.1.1	R 800 + R100 ✓M A = R 900 ✓ A	1 MA adding correct values 1A correct answer AO	P1	2
	2.1.2	$5 \times 270 \checkmark RT \checkmark MA = R1 350$ OR R1 080 + R270 ✓ RT ✓ MA = R1 350	1 RT for R270 1 MA multiplying correct values 1 RT for R270 1 MA adding correct values	F2	2
	2.1.3	$\frac{2 \cdot 160}{270} \checkmark RT \checkmark MA = 8 \checkmark CA$ OR $\frac{1 \cdot 620 - 900}{720} \checkmark RT = 720$ $\frac{720}{90} \checkmark MA = 8 \checkmark CA$ OR $270 \times 8 \checkmark RT \checkmark MA = 2 \cdot 160 \checkmark CA$	1 RT correct values 1 MA dividing correct values 1 CA answer 1 RT correct values 1 MA dividing correct values 1 CA answer 1 RT correct values 1 MA multiplying correct values	F2	
			1 CA answer		3

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2.1.4(a)	(5; 1 350) ✓RT ✓A	1 RT correct values 1A correct order	F1	2
(b)	6 ✓ ✓ A	2 A correct answer	F1	2
2.1.5	Total expenses = R 900 ✓ A + 90 (n) ✓ MA	CA fixed cost from 2.1.1 1 A for R900 1 MA for adding variable cost	F2	2

	2.1.6	Income = 100 × R270 ✓ MA = R27 000 ✓ A Expenses = R 900 + 90 (100) ✓ MCA = R9 900 ✓ CA Profit = R27 000 - R9 900 ✓ MCA = R17 100 ✓ CA R270 - R90 ✓ MA = R180 ✓ A ∴ 100 × R180 ✓ MCA = R18 000 ✓ CA Profit = R18 000 -R 900 ✓ MCA = R17 100 ✓ CA	CA from 2.1.5 (Expenses) 1 MA multiplying correct values 1A correct answer 1 MCA adding fixed and variable expenses together 1CA correct answer 1 MCA subtracting expenses from income 1 CA answer	F3	6
2.2	2.2.1	1st year: $12\% + 100\% = 112\% \checkmark MA = 1.12 \checkmark S$ $1,12 \times R60\ 000 \checkmark M = R\ 67\ 200 \checkmark A$ 6 months: $\frac{12\%}{2} = 6\% \checkmark A$ $6\% + 100\% = 106\% = 1,06 \checkmark A$ $1,06 \times R67\ 200 \checkmark MCA$ $= R\ 71\ 232 \checkmark CA$	1 MA increasing the percentage 1S simplification 1M multiplying correct values 1A correct answer 1A percentage 1A increased percentage 1 MCA multiplying correct values 1 CA answer	F3	
		OR 1^{st} year: $12\% + 100\% = 112\% \checkmark MA = 1.12 \checkmark S$ 6 months: $\frac{12\%}{2} = 6\% \checkmark A$ $6\% + 100\% = 106\% = 1,06 \checkmark A$ R60 000 $\times \checkmark M$ 1.12 $\checkmark A \times 1.06 \checkmark MCA$ $= R71 \ 232 \checkmark CA$			8
0	2.2.2	R 71 232 - R60 000 ✓ MA = R 11 232 ✓ A	CA from Q2.2.1 1MA subtracting correct values 1A correct answer	F2	2
8			171 correct ariswer		[29]

Answe	er	Theorem and the second	2	
		Explanation	Topic Level	Mark
3.1.1	0,741 × 1 000 000 ✓ MA = 741 000 ✓ A	1MA multiply by 1 000 000 1A correct answer AO	DH2	2
3.1.2	Northern Cape ✓ ✓ A	2A correct answer	DH1	2
3.1.3	Pass rate of 2024 is higher than 2023 across all provinces ✓✓J OR All provinces improved ✓A	1A correct answer 2J reasoning	DH4	3
3.1.4	Discrete ✓A It can be counted ✓J	1A correct choice 1 J reasoning	DH2	2
3.1.5	Range = Max value - Min value $14.3 = 89.7 - \mathbf{S} \checkmark SF$ $\mathbf{S} = 89.7 - 14.3 \checkmark S$ $= 75.4 \checkmark A$	1 SF correct values 1S simplification/changing the subject of the formula 1A correct answer	DH3	3
3.1.6	$Mean = \frac{T+91,9+88,5+\cdots}{9} \checkmark MA$ $85,5 = \frac{600,3+2T}{9} \checkmark S$ $769,5 MA = 600,3+2 T$ $769,5 - 600,3 = 2 T \checkmark MCA$ $2 T = 169,2 \checkmark S$ $T = 84,6 \checkmark CA$	1MA mean concept 1 S simplification 1MCA changing subject of formula 1S value of 2 T 1 CA answer	DH3	5
3.2.1	1 060: 15 657 ✓RT ✓A 1:14,77 ✓S	1 RT correct values 1A correct order 1S answer in unit form NPR	DH2	3
3.2.2	783; 824; 837; 865; 911; 926; 946; 1 060; 1 095; 1 161 ✓ ✓ A	2A correct order	DH2	2
	3.1.4 3.1.5 3.1.6	3.1.3 Increases ✓ A ICS COIT Pass rate of 2024 is higher than 2023 across all provinces ✓ ✓ J OR All provinces improved ✓ A from 2023 to 2024. ✓ ✓ J 3.1.4 Discrete ✓ A It can be counted ✓ J 3.1.5 Range = Max value - Min value 14,3 = 89,7 - S ✓ SF S = 89,7 - 14,3 ✓ S = 75,4 ✓ A 3.1.6 Mean = T+91,9+88,5+ ✓ MA 85,5 = 600,3+2T / 9 769,5 MA = 600,3 +2 T 769,5 - 600,3 = 2 T ✓ MCA 2 T = 169,2 ✓ S T = 84,6 ✓ CA 3.2.1 1 060: 15 657 ✓ RT ✓ A 1: 14,77 ✓ S 3.2.2 783; 824; 837; 865; 911; 926; 946; 1 060;	3.1.2 Northern Cape ✓ A 3.1.3 Increases ✓ A C5. COII Pass rate of 2024 is higher than 2023 across all provinces ✓ J OR All provinces improved ✓ A from 2023 to 2024. ✓ ✓ J 3.1.4 Discrete ✓ A It can be counted ✓ J 3.1.5 Range = Max value - Min value 14,3 = 89,7 - S ✓ SF S = 89,7 - 14,3 ✓ S = 75,4 ✓ A 3.1.6 Mean = T+91,9+88,5+ 9 3.1.6 Mean = T+91,9+88,5+ 9 3.1.7 MA 3.1.8 NA mean concept 1 S simplification/changing the subject of the formula 1 A correct answer 3.1.8 Increases ✓ A C5. COII Pass rate of 2024 is higher than 2023 across all provinces ✓ J IA correct choice 1 J reasoning 1 SF correct values 1S simplification/changing the subject of the formula 1A correct answer 3.1.6 Nean = T+91,9+88,5+ 9 3.1.7 MA 1 MA mean concept 1 S simplification 1 MCA changing subject of formula 1 S value of 2 T 1 CA answer 1 CA answer 1 RT correct values 1A correct order 1S answer in unit form NPR 3.2.2 783; 824; 837; 865; 911; 926; 946; 1 060; 2A correct order	3.1.2 Northern Cape ✓ A 3.1.3 Increases ✓ A 2A correct answer DH1 3.1.3 Increases ✓ A Bass rate of 2024 is higher than 2023 across all provinces ✓ J OR All provinces improved ✓ A from 2023 to 2024. ✓ ✓ J 3.1.4 Discrete ✓ A It can be counted ✓ J 3.1.5 Range = Max value - Min value 14,3 = 89,7 - S ✓ SF S = 89,7 - 14,3 ✓ S = 75,4 ✓ A 3.1.6 Mean = T+91,9+88,5+ 9 769,5 MA = 600,3 + 2 T 769,5 - 600,3 = 2 T ✓ MCA 2T = 169,2 ✓ S T = 84,6 ✓ CA 3.2.1 1.060: 15 657 ✓ RT ✓ A 1: 14,77 ✓ S 1 RT correct values 1S simplification 1MCA changing subject of formula 1S value of 2 T 1 CA answer DH2 1 RT correct values 1 R answer in unit form NPR 3.2.2 783; 824; 837; 865; 911; 926; 946; 1 060; 2A correct order DH2

3.2.3	Median $\frac{911+926}{2} \checkmark MA = 918.5 \checkmark A$ $Q1 = 837 \checkmark A$ $Q3 = 1060 \checkmark A$ $Min = 783 \checkmark A$	CA (arrangement) from Q 3.2.2 1MA median concept 1A correct median 1A correct Q1 1A correct Q3 1A correct min	DH3	
	$Min = 783 \checkmark A$ $Max = 1 \ 161 \checkmark A$	1A correct max		6
	Starmorephysic:	s.com		[28]

QUE	QUESTION 4				marks)
Q	Answe	r	Explanation	Topic Level	Mark
4.1	4.1.1	R17 235 + R9 444 ✓MA = R26 679 ✓A	1 MA adding correct values 1A correct answer AO	F1	2
	4.1.2	$\frac{R680\ 000}{12} \checkmark MA = R56\ 666,67 \checkmark A$ Gross salary $= R680\ 000 + R56\ 666,67 \checkmark MCA$ $= R736\ 666,67 \checkmark CA$	1 MA for monthly gross 1A correct answer 1MCA adding bonus 1 CA answer	F2	
		OR $\frac{R680\ 000}{12} \checkmark MA = R56\ 666,67 \checkmark A$ Gross salary = R56\ 666,67 \times 13 \sqrt{MCA}	1 MA for monthly gross 1A correct answer 1 MCA multiplying by 13. 1 CA answer		
		= R736 666,71 ✓CA	1		4
	4.1.3	$\frac{30}{100}$ × R680 000 ✓MA = R204 000 ✓CA Maximum is R100 000 Only R100 000 is tax deductible ✓J	1 MA multiplying correct values 1 CA answer 1 J identifying maximum	F4	3
	4.1.4	R736 666,67 − R100 000 ✓ RT ✓ M R636 666,67 ✓ CA OR	CA from 4.1,2 and 4.1.3 1 RT correct values 1M subtracting donation 1 CA answer	F2	
		R736 666,71 − R100 000 ✓RT ✓M R636 666,71 ✓CA			3
	4.1.5	Bracket 4/4 th Bracket ✓✓RT (Accept rate of tax)	CA from 4.1.4 2 RT correct bracket	F1	2

	4.1.6	18% of taxable income ✓A	1A correct bracket	F4	
		18% × 95 750 ✓ MA	1 MA multiplying correct		
		= 17 235 ✓ CA – Rebate	values		
		=17 235 −17 235 ✓MCA	1 CA answer		
		= 0 ✓ CA	1 MCA subtract rebates		
		∴ The claim is valid ✓ O	1 CA answer		
			1 O conclusion		
		OR			
		17 235÷ 18% ✓A✓MA = R95 750✓CA			
		R95 750 − R95 750 ✓ MCA			
		= 0 ✓ CA			
		∴ The claim is valid √ O			
					6
4.2	4.2.1		3 A correct answers	P2	
4.2	(i)	C ✓A	3 A correct answers	PZ	
	(ii)	M✓A	-		
		M ∨ A CS ∨ A	-		2
	(iii)	CSVA			3
	4.2.2	$\frac{6}{9} \checkmark \checkmark RT = 0,66666 \checkmark CA$	1 RT numerator	P2	
			1 RT denominator		
		≈ 0,7 √ R	1CA answer		
			1R to one decimal place		4
			1		
	4.2.3	 To cater for different preferences ✓✓O OR 	2 O correct reason	P4	
		 Cater for people who might have 			
		allergies ✓✓O			
		(Accept any sensible/logical answer)			2
					[29]

QUE	QUESTION 5 (34 marks)				marks)
Q	Answer		Explanation	Topic Level	Mark
5.1	5.1.1	Car ✓ 50% of the drivers are generating more than R 1 000 ✓ ✓ J	1RT car 2O justification	DH4	3
	5.1.2	$\frac{25}{100} \checkmark RT \times 300 \checkmark MA$ $= 75 \checkmark CA$ OR	1 RT 25% 1 MA multiplying correct values 1 CA answer	DH2	
		$\frac{75}{100} \checkmark RT \times 300 \checkmark MA = 225$ $\therefore 300 - 225 = 75 \checkmark$			3
	5.1.3	$ \begin{array}{l} 100\% + 20\% = 120\% \checkmark A \\ \frac{100}{120} \checkmark M \times R1 600 \checkmark MA \\ = R1 333,33 \checkmark CA \end{array} $ OR	1A for 120% 1M for correct fraction 1MA multiplying by R1 600 1 CA answer	DH3	
		$100\% + 20\% = 120\% \checkmark A$ $\frac{120}{100} \checkmark M = 1,2$ $\frac{1600}{1,20} \checkmark MA$ $= 1 333,33 \checkmark CA$			
		· ·			4
	5.1.4	$IQR = Q_3 - Q_1 \checkmark F$ $= 1 200 - 400 \checkmark RT$ $= 800 \checkmark CA$ (Accept range for Q3:	F correct formula RT both values 1 CA answer	DH2	
		1 200 - 1 220)		þ	3
5.2	5.2.1 Star	ZAR ✓A • because you get more rupees when you exchange ✓✓O • 1-Indian rupee exchanges for	1 A correct answer 2 O for justification	F4	
		less than a 1 rand			3

5	2.2 $\frac{R30\ 000}{R0.21} \times 1$ Indian rupee \checkmark C 142 857,1429 \checkmark S $-3000 \checkmark$ MCA = $\frac{139\ 857.1429}{12\ 000} \checkmark$ MCA = $11.6547619 \checkmark$ CA $\approx 11 \checkmark$ R $\therefore It\ won't\ be\ enough. \checkmark$ J	1 C conversion 1S simplification 1MCA subtracting 3 000 1MCA dividing by 12 000 1 CA answer 1R rounding down 1 J conclusion	F4	
	Shipping $3\ 000 \times 0.21 \checkmark C = R630 \checkmark S$			
	Cost of 12 bikes: 12 000 × 0,21 ✓ MCA × 12 ✓ MCA = R30 240			
	Total costs: $R630 + R30 \ 240 \checkmark M$ = R30 870 \checkmark CA			
	R30 000 will not be enough, there will be a shortfall of R870. ✓ J			7
	OR			
	1 Indian Rupees = 0,21 ZAR			
	Number of Indian rupees			
	$=\frac{R30\ 000}{0.21}$ \checkmark C			
	142 857,1429 <i>✓S</i>			
	Indian Rupees — 3000		j.	
	✓MCA ✓MCA):	
	139 857,1429 - (12 × 12 000)			
	139 857,1429 − 144 000 ✓ M ✓ CA			
	= -4 142,8571 Indian rupees			
	∴ It will not be enough√J			
5	∴ It will not be enough ✓ J 2.3 • Convenience ✓ ✓ O	2 O answer	F4	
5	2.3 • Convenience ✓✓ O • Time saving ✓✓ O	2 O answer 2 O answer	F4	
5	2.3 • Convenience ✓✓O		F4	4

5.3	Cost of 1 kg = R270 ÷ 4 ✓ MA	1 MA dividing by 4	F3	
	= R67.50 ✓A	1A correct answer		
	Cost in cents = $R67.50 \times 100 \checkmark C$	1C conversion		
	= 6 750 cents ✓A	1A correct answer		
	Percentage Increase:			
	$\frac{6761-6750}{6750} \checkmark SF \checkmark SF \times 100$	1SF substitution numerator		
	$= 0.162\% \checkmark CA$	1SF denominator		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1 CA answer		
		NPR		
	OR			
	6761 ÷ 100 ✓ C			
	$= R67,61 \checkmark A \times 4kg \checkmark MA$			
	= R270 44 √ A			
	$= \frac{27\ 044 - 27\ 000}{27\ 000} \checkmark SF \checkmark SF \times 100$			
	= 0,162962963% ✓CA			
				7
	OR			
	270 × 100 ✓ C			
	= 27 000 cents ✓ A			
	6761 × 4 ✓ MA			
	= 27 044 <i>cents</i> ✓ A			
	$= \frac{27044 - 27000}{27000} \times 100 \checkmark \text{SF} \checkmark \text{SF}$			
	= 0,162962963% ✓CA		a .	
				[34]
			J _E	150