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education

Department:
Education
North West Provincial Government
REPUBLIC OF SOUTH AFRICA

more NATIONAL SENIOR CERTIFICATE

GRADE 12

MATHEMATICAL LITERACY PI

SEPTEMBER 2025

MARKS: 150

TIME: 3 hours

This question paper consists of 10 pages and an addendum with 5 annexures.

INSTRUCTIONS AND INFORMATION

- 1. This question paper consists of FIVE questions. Answer ALL the questions.
- 2. Use the ANNEXURES in the ADDENDUM to answer the following questions:

ANNEXURE A for QUESTION 1.2 ANNEXURE B for QUESTION 2.1 ANNEXURE C for QUESTION 4.1 ANNEXURE D and E for QUESTION 5.1

- Number the answers 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.
- Show ALL calculations clearly.
- 7. Round off ALL final answers appropriately according to the given context, unless stated otherwise.
- 8. Indicate units of measurement, where applicable.
- 9. Diagrams are NOT necessarily drawn to scale, unless stated otherwise.
- 10. Write neatly and legibly.

1.1 Social grants are financial assistance provided by the government to individuals in need, typically to help cover basic living expenses.

The applicant must be a South African citizen, or a permanent resident or refugee to qualify for grants. Individuals earning more than R92 520 per year do not qualify.

In the expanded Budget 2024 review, the national treasury explained that social grant expenditure – excluding SRD (Social Relief of Distress) grant – will increase from R217,1 billion in 2023/2024 to R259,3 billion in 2026/2027.

The new maximum monthly amounts in Rands are as follows.

TABLE 1: INCREASE IN RESPECT OF SOCIAL GRANTS (IN RANDS)

Grant type	Amount from 1 April 2023	Amount from 1 October 2023	Amount from 1 April 2024	Amount from 1 October 2024
Older person's (below 75)	2 080	2 090	2 180	2190
Older person's (above 75)	2 100	2 110	2180 + 20	2190 + 20
War Veterans	2 100	2 110	2180 + 20	2190 + 20
Disability	2 080	2 090	2 180	2190
Foster Child	1,120	1 130	1 180	0
Care Dependency	2 080	2 090	2 180	0
Child Support (CSG)	500	510	530	530
Top-Up to CSG	250	250	260	270
Grant in Aid	500	510	530	0

The increases will be effective on 1 April 2024 and 1 October 2024 respectively.

[Source: Adapted from sassa-grant-increases-2024]

Use TABLE 1 above to answer the questions that follow.

- 1.1.1 State the person who qualify for social grants in South Africa. (2)
- 1.1.2 Write down the expected amount for 2026/2027 in numbers (digits). (2)
- 1.1.3 Calculate the monthly income threshold to qualify for the grant. (2)
- 1.1.4 Identify the amount a person can claim for a foster child from 1 April 2024. (2)
- 1.1.5 Determine the difference between the amount a War Veteran can claim in October 2024 and April 2023. (3)

1.2 The 2024 Olympic Games took place in France where the United States of America (USA) won 126 medals.

The medals won per day are presented on ANNEXURE A.

Use ANNEXURE A and the information above to answer the questions that follow.

- 1.2.1 Name the type of graph displayed on ANNEXURE A. (2)
- 1.2.2 Write down the data collection method that was used to collect the data. (2)
- 1.2.3 On what day did USA win the least medals? (2)
- 1.2.4 Determine the total number of medals won by USA on day 8 of the 2024 Olympic Games. (2)
- 1.2.5 Write as a ratio in its simplest form, the total number of gold medals to the total number of medals won at the Olympics. (3)
- 1.3 TABLE 2 below gives explanations, formulae and definitions of terminologies used in Mathematical Literacy.

TABLE 2: EXPLANATIONS, FORMULAE AND DEFINITIONS

LETTER	DEFINITION
A	Middle value in an ordered data set
В	Value appearing most in a data set
C	The point at which the expenses and income are equal
D	The amount you can earn without paying income tax
E	$1QR = Q_3 - Q_1$
F.	Range = Highest value – Lowest value
G	The rate of increase in prices over a given period of time
H	The interest you earn on interest

Use TABLE 2 above and match the definitions with the terminology below. Write only letter (A–H) next to the question numbers (1.3.1 to 1.3.4), e.g. 1.3.5 I.

Stan	morephy	vsics.com	
1.3.1	Inflation		(2)

1.3.2 Interquartile range (2)

1.3.3 Break-even point (2)

1.3.4 Median (2) [30]

2.1 The Tennis Academy has two tennis clubs, Tennis Pro A (Juniors) and Tennis Pro A+ (Seniors), where they develop and coach many players. Each tennis club has 4 courts. The academy has to purchase new stock for their tennis clubs. The invoice of the tennis equipment is presented on ANNEXURE B.

Carlos coaches at Tennis Pro A and Lorenzo at Tennis Pro A+.

Use ANNEXURE B and the information above to answer the questions that follow.

- 2.1.1 Determine **A**, the total number of ball containers the Academy need to purchase if they need 30 balls per court. (3)
- 2.1.2 Calculate the unit price excluding VAT of the Yonex Pro 9 racket bag. (5)
- 2.1.3 Lorenzo the head coach sent in an order for the two tennis clubs.

Show that the total price, VAT included, for all the items will be R67 314,09. (7)

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Use the information above to answer the questions that follow.

- 2.2.1 Write down the number of payment options. (2)
- 2.2.2 Determine the total cost of purchasing 3 machines using the cash sale. (3)
- 2.2.3 Calculate, rounded to a whole number, the percentage discount Lorenzo will receive if he purchases 3 tennis ball machines on the cash sale. (4)
- 2.2.4 Lorenzo stated that he will pay more than R20 000 on interest if he purchases the tennis ball machine on online credit with 12,5% interest compounded annually.
 - Verify, showing ALL calculations, whether his statement is valid. (9)
- 2.2.5 Give a reason why it is better to purchase goods on cash. (2) [35]

The 2023 Netball World Cup, took place in Cape Town, South Africa.

Goal averages, of four countries are displayed in TABLE 3 below for the duration of the preliminary stages.

TABLE 3: GOAL PERCENTAGES OF FOUR COUNTRIES SHOOTERS DURING THE PRELIMINARY STAGES

	ENGLAND	AUSTRALIA	SOUTH AFRICA	NEW ZEELAND
	92	97	91	100
Shooter 1	100	97	87	94
	100	100	87	92
	91	90	tann63rer	blaice 91
Shooter 2	92	91	88	91
	82	90	50	79
	71	92	89	80
Shooter 3	100	89	89	89
	78		79	96
Shooter 4	93	92	100	89
	91	67		100
	89	Stanmor9 physics.c	om	67
Average	89,9	90,5	82,3	89

Use TABLE 3 and the information above to answer the questions that follow.

- 3.1 Identify the country with the highest goal percentage average. (2)
- 3.2 Write down the shooter and the country that had the lowest goal percentage. (2)
- 3.3 Write down the modal percentages of goals obtained by New Zeeland. (3)
- 3.4 Calculate the median percentage goals obtained by England. (3)
- 3.5 The inter quartile range (IQR) for the goal percentages of Australia is 7%.
 - 3.5.1 Calculate the IQR for the goal percentages of New Zeeland. (7)
 - 3.5.2 Use the IQR of the two countries above and determine which country performed better. State a reason for your answer. (3)
- 3.6 Explain why shooter 4 of South Africa only played one match with a 100% goal average. (2)
- 3.7 Determine as a percentage, rounded to TWO decimal places, the probability that any shooter will obtain a 100% goal average out of all the countries. (4)

 [26]

4.1 The top 10 highest-paid tennis players collectively earned an estimated \$245,7 million over the past 12 months.

The full list of the 10 highest-paid tennis players in the world for 2024 appears on ANNEXURE C.

Use ANNEXURE C and the information above to answer the questions that follow.

- 4.1.1 Write down the name and the height of the tallest tennis player. (2)
- 4.1.2 Determine the range of the ages of the top 10 players listed. (3)
- 4.1.3 Determine the sum of the top 50% on-court earnings of the tennis players in the world 2024. (3)
- 4.1.4 (a) Explain the term *exchange rate*. (2)
 - (b) If the Dollar to Euro is 0,8996, convert Carloz Alcaraz and Rafael Nadal's combined off-court earnings to Euro's. (4)
- 4.1.5 Calculate rounded to THREE decimal places, the percentage earnings of the female tennis players out of the total earnings. (5)
- 4.1.6 Determine the mean of the on-court earnings for the male tennis players. (4)
- 4.2 Djokovic received £175 000 from Serbia for winning the gold medal and reportedly opted to donate his winnings to humanitarian causes.
 He divided his winnings in the ratio 2:5:7 for bonus salaries supporting preschool educators, supporting tennis players that cannot afford to go to tournaments and to build a preschool.

Use the information above to answer the questions that follow.

- 4.2.1 Write down the part of the ratio that will be used to build a preschool. (2)
- 4.2.2 Djokovic stated that the amount of £62 500 will go towards players that can not afford to go to tournaments.

Verify, showing ALL calculations, whether Djokovic's statement is CORRECT. (4)

[29]

John McEnroe one of the world's most famous retired tennis players, is currently a sports commentator and a sports analyst working for the BBC (British Broadcasting Corporation). He earns an annual taxable income of \$256 800. He is married and has 7 children. He is the head of the household and was born on 16 February 1959.

NOTE:

1\$ = R17,1232

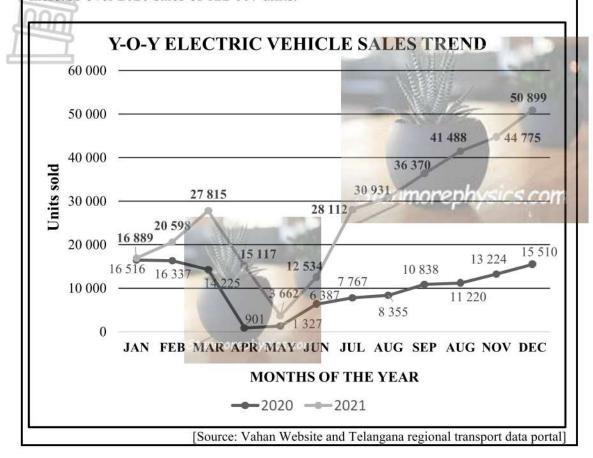
ANNEXURE D represents the U.S tax tables for the year 2024/25 and ANNEXURE E the South African tax tables for the year 2024/25.

Use ANNEXURE D and E and the information above to answer the questions that follow.

- 5.1.1 Determine the age of John McEnroe. (2)
- 5.1.2 Calculate John McEnroe's annual tax payable in the U.S. (3)
- 5.1.3 If John McEnroe was a South African, calculate in rand, the medical aid credit he would receive per year. (4)
- 5.1.4 Compare the two countries annual tax payable related to John McEnroe.
 - Verify, showing ALL calculations, in which country will he pay the least tax. (10)

5.2 Electrical vehicles are becoming a new trend all over the European countries.

The graph below represents India's electrical vehicle sales trend for the year 2020 and 2021. In 2021 they sold 329 190 vehicles, representing a 168% percentage increase over 2020 sales of 122 607 units.



Use the information and graph above to answer the questions that follow.

- 5.2.1 Calculate the difference between the second highest sales of 2021 and 2020's vehicle sales. (3)
- 5.2.2 Show how the percentage difference of 168% was calculated. (3)
- 5.2.3 Determine, as a decimal, the probability that there were less than 10 000 electrical vehicles sold in both the years 2020 and 2021. (3)
- 5.2.4 Describe the trend of the electric vehicle sales from March 2021 to July 2021. (2) [30]

TOTAL: 150

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North West Provincial Government
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 12

MATHEMATICAL LITERACY P1

ADDENDUM

SEPTEMBER 2025

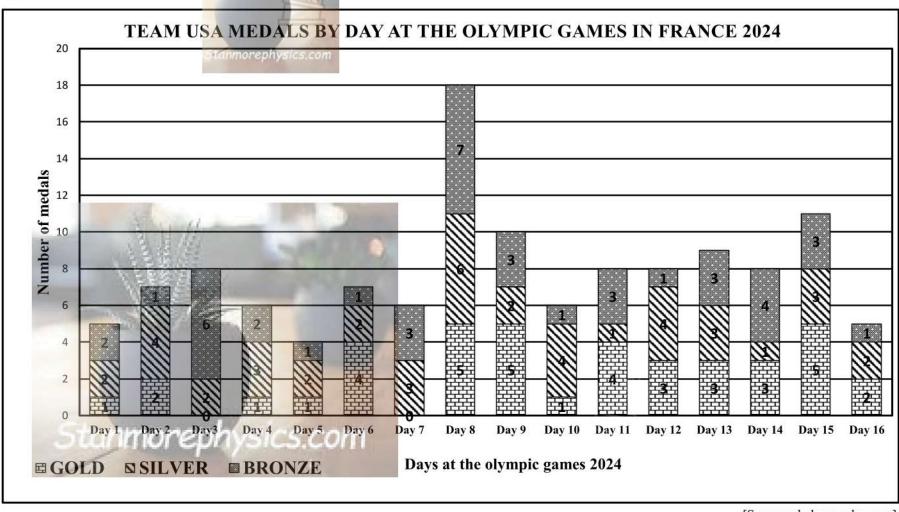
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This addendum consists of 6 pages with 5 annexures.

NSC - Addendum

ANNEXURE A

QUESTION 1.2



[Source: nbclosangeles.com]

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ANNEXURE B

QUESTION 2.1

SPORTS WAREHOUSE TAX INVOICE

UNIT PRICE	QUANTITY	AMOUNT (VAT inclusive)
R1 390,44 (excl VAT)	8	R12 792,08
R2 099,00 (incl VAT)	16	**********
R249,00 (incl VAT)	A	
Stanmorephysics.com	3	R8 097,01
	Tax invoice total	R67 314,09
A ** 1202 g Mall	Term and conditions: Payment is due withir	n 15 days
	R1 390,44 (excl VAT) R2 099,00 (incl VAT) R249,00 (incl VAT) Stanmerephysics.com	R1 390,44 (excl VAT) R2 099,00 (incl VAT) R249,00 (incl VAT) Stanmerephysics.com 3 Tax invoice total Term and conditions:

[Source: Adapted from original tax invoice]

NOTE: Purchase more than 10 adult rackets, get one FREE.

NSC - Addendum

ANNEXURE C

QUESTION 4.1



RANK	TENNIS PLAYER	GENDER	AGE	NATIONALITY	TOTAL EARNINGS	ON-COURT EARNINGS	OFF-COURT EARNINGS	HEIGHT IN METER
1	Carlos Alcaraz	M	21	Spain	\$42,3 Million	\$10,3 Million	\$32 Million	1,83
2	Novak Djokovic	M	37	Serbia	\$37,2 Million	\$12,2 Million	\$25 Million	1,88
3	Coco Gauff	F	20	USA	\$27,1 Million	\$7,1 Million	\$20 Million	1,75
4	Iga Swiatek	F	23	Poland	\$26,7 Million	\$11,7 Million	\$15 Million	1,76
5	Jannik Sinner	M	23	Italy	\$26,6 Million	\$11,6 Million	\$15 Million	1,92
6	Rafael Nadal	M	38	Spain	\$23,3 Million	\$0,3 Million	\$23 Million	1,85
7	Daniil Medvedev	M	28	Russia	\$20,3 Million	\$7,3 Million	\$13 Million	1,98
8	Naomi Osaka	F	26	Japan	\$14,6 Million	\$0,6 Million	\$14 Million	1,80
9	Casper Ruud	M	25	Norway	\$13,9 Million	\$3,9 Million	\$10 Million	1,83
10	Aryna Sabalenka	F	26	Belarus	\$13,7 Million	\$6,7 Million	\$7 Million	1,82

[Source: Adapted from https://www.jagranjosh.com/general-knowledge/highest-paid-tennis-players-in-the-world-1695205855-1]

NSC - Addendum

ANNEXURE D

QUESTION 5.1

TABLE 5: 2024/2025 FEDERAL TAX BRACKETS

RATE	SINGLE	MARRIED FILING JOINTLY	MARRIED FILING SEPARATELY	HEAD OF HOUSEHOLD
10%	\$0 - \$11 600	\$0 - \$23 200	\$0 - \$11 600	\$0 - \$16 550
12%	\$11 600 – \$47 150	\$23 200 - \$94 300	\$11 600 - \$47 150	\$16 550 - \$63 100
22%	\$47 150 - \$100 525	\$94 300 – \$201 050	\$47 150 - \$100 525	\$63 100 - \$100 500
24%	\$100 525 - \$191 950	\$201 050 - \$383 900	\$100 525 - \$191 950	\$100 500 - \$191 950
32%	\$191 950 – \$243 725	\$383 900 - \$4 87 450	\$191 950 - \$243 725	\$191 950 - \$243 700
35%	\$243 725 – \$609 350	\$487 450 - \$731 200 re	\$243 725 - \$365 600	\$243 700 - \$609 350
37%	\$609 350+	\$731 200+	\$365 600+	\$609 350+

[Source: Adapted from smartasset.com/taxes/current]

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ANNEXURE E

QUESTION 5.1

TABLE 6: INCOME TAX OF INDIVIDUALS AND TRUSTS FOR YEAR ENDING 28 February 2024

Tax Bracket	Taxable Income (in Rand)	Rate of Tax (in Rand)
1	$0 - 237\ 100$	18% of taxable income
2	$237\ 101 - 370\ 500$	42 678 + 26% of taxable income above 237 100
3	370 501 - 512 800	77 362 + 31% of taxable income above 370 500
4	512 801 - 673 000	121 475 + 36% of taxable income above 512 800
5	673 001 - 857 900	179 147 + 39% of taxable income above 673 000
6	857 901 - 1 817 000	251 258 ± 41% of taxable income above 857 900
7	1 817 001 and above	644 489 + 45% of taxable income above 1 817 000

TAX REBATE TYPE	2024/2025
Primary (All individuals)	R17 235
Secondary (Age 65 to below 75)	R9 444
Tertiary (Age 75 and older)	physics. R3:145

TAX THRESHOLDS	2024/2025	
Below age 65	R95 750	
Age 65 to below 75	R148 217	
Age 75 and older	R165 689	

MEDICAL AID ~ MONTHLY TAX CREDITS	2024/2025	
Main member	R364	
First dependant	R364	
Each additional member	R246	

[Adapted from onlinetax.sagesouthafrica.co.za]

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NSC Answer book

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CANDIDATE NAME

Senior Certificate Grade 12 - Preparatory exam 2025

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BOOK NR

This answer book consists of 17 pages.

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FOLLOW THESE INSTRUCTIONS CAREFULLY.

- 1. Clearly write your name and surname and centre name in the space provided.
- 2. Answer ALL questions in the spaces provided.
- 3. No pages may be torn from this answer book.
- 4. Read the instructions printed on your timetable carefully as well as any other instructions which may be given in each examination paper.
- 5. Candidates may not retain an answer book or remove it from the examination room.
- 6. Answers must be written in black/blue ink as distinctly as possible.
- Do not write in the margins.
- 8. If you require additional space for your answers:
 - 8.1 Use the additional space provided at the end of the answer book.
 - 8.2 When answering a question in the additional space, indicate clearly the question number in the column on the left-hand side.
- 9. Draw a neat line through any work/rough that must not be marked.

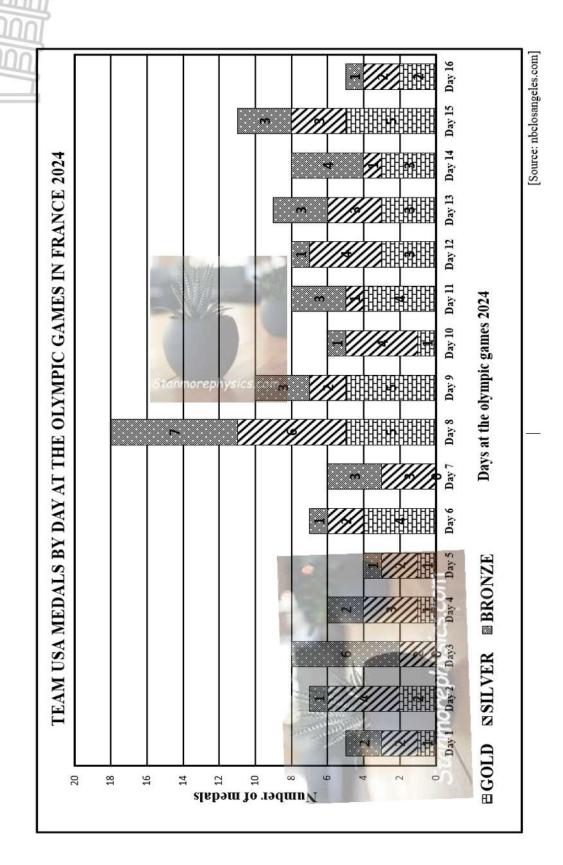
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QUESTION 1

Solution		Marks
1.1.1		
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		(2)
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		(3)
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	Stanmorephysics.com	(2)
1.2.2		(2)
		(2)
1.2.3		(2)
1.2.4		(2)
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		(2)
1.3.1		(3)
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1.3.3		(2)
1.3.4		(2)
		(2) [30]

QUESTION 1.2

ANNEXURE A



ANNEXURE B

QUESTION 2.1

SPORTS WAREHOUSE TAX INVOICE

To:		Invoice number: TC	
Tennis Academy PO Box 167 Rustenburg 0300		Invoice Date: 02/02/	/2023
	Name of the last o		
DESCRIPTION	UNIT PRICE	QUANTITY	AMOUNT (VAT inclusive
Rolling tennis ball basket	R1 390,44 (excl VAT)	8	R12 792,08
Adult tennis racket Power pro	R2.099,00 cs.com (incl VAT)	16	
Tennis ball TB930 4-pack - yellow	R249,00 (incl VAT)	A	
Yonex Pro 9 racket bag	***************************************	3	R8 097,01
South		Tax invoice total	R67 314,09
Banking details: Bank/Acc. Name: ABS Account number: 4215 Branch name: Rustenber Branch code: 602 556	*** 1202	Term and conditions: Payment is due within	
Stanmorep	hysics.com		

[Source: Adapted from original tax invoice]

NOTE: Purchase more than 10 adult rackets, get one FREE.

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QUESTION 2

Solution	1	Marks
2.1.1		(3)
2.1.2		
2.1.3		(5)
	Stanmorephysics.com	
		(7)

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Solution	Marks
2.2.1	
	(2)
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2.2.3	
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	(9
2.2.5	
	(2 [35
	[35]

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QUESTION 3

Solution	Marks
3.1	(2)
	(2)
3.3	(2)
3.4	(3)
3.5.1	(3)
5.5.1	
Stanmorephysics.com	
3.5.2	(7)
3.6	(3)
	(2)
3.7	
	(4) [26]
	[26]

QUESTION 4.1

ease turn over

TABLE 4: 10 HIGHEST-PAID TENNIS PLAYERS IN THE WORLD (2024) AS PER TOTAL EARNINGS

RANK	TENNIS PLAYER	GENDER	AGE	NATIONALITY	TOTAL EARNINGS	ON-COURT EARNINGS	OFF-COURT EARNINGS	HEIGHT IN METER
1	Carlos Alcaraz	M	21	Spain	\$42,3 Million	\$10,3 Million	\$32 Million	1,83
2	Novak Djokovic	M	37	Serbia	\$37,2 Million	\$12,2 Million	\$25 Million	1,88
3	Coco Gauff	F	20	USA	\$27,1 Million	\$7,1 Million	\$20 Million	1,75
4	Iga Swiatek	F	23	Poland	\$26,7 Million	\$11,7 Million	\$15 Million	1,76
5	Jannik Sinner	М	23	Italy	\$26,6 Million	\$11,6 Million	\$15 Million	1,92
6	Rafael Nadal	М	38	Spain	\$23,3 Million	\$0,3 Million	\$23 Million	1,85
7	Daniil Medvedev	М	28	Russia	\$20,3 Million	\$7,3 Million	\$13 Million	1,98
8	Naomi Osaka	F	26	Japan	\$14,6 Million	\$0,6 Million	\$14 Million	1,80
9	Casper Ruud	М	25	mor Norway, sic	\$13,9 Million	\$3,9 Million	\$10 Million	1,83
10	Aryna Sabalenka	F	26	Belarus	\$13,7 Million	\$6,7 Million	\$7 Million	1,82

[Source: Adapted from https://www.jagranjosh.com/general-knowledge/highest-paid-tennis-players-in-the-world-1695205855-1]

Solution		Marks
4.1.2		(2)
4.1.3		(3)
4.1.4 (a)		(3)
4.1.4 (b)	tanmorephysics.com	(2)
4.1.5		(4)
4.1.6		(5)
		(4)

Solution	Marks
4.2.1	
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John	
Inno	
	(2)
4.2.2	
	(4)
N. Sur	[29]

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ANNEXURE D

QUESTION 5.1

TABLE 5: 2024/2025 FEDERAL TAX BRACKETS

RATE	SINGLE	MARRIED FILING JOINTLY	MARRIED FILING SEPARATELY	HEAD OF HOUSEHOLD
10%	\$0 - \$11 600	\$0 - \$23 200	\$0 - \$11 600	\$0 - \$16 550
12%	\$11 600 – \$47 150	\$23 200 – \$94 300	\$11 600 – \$47 150	\$16 550 - \$63 100
22%	\$47 150 - \$100 525	\$94 300 - \$201 050	\$47 150 – \$100 525	\$63 100 – \$100 500
24%	\$100 525 - \$191 950	\$201 050 - \$383 900	\$100 525 - \$191 950	\$100 500 - \$191 950
32%	\$191 950 - \$243 725	\$383 900 – \$487 450	\$191 950 - \$243 725	\$191 950 - \$243 700
35%	\$243 725 – \$609 350	\$487 450 – \$731 200	\$243 725 – \$365 600	\$243 700 - \$609 350
37%	\$609 350+	\$731 200+	\$365 600+	\$609 350+

[Source: Adapted from smartasset.com/taxes/current]

ANNEXURE E

QUESTION 5.1

TABLE 6: INCOME TAX OF INDIVIDUALS AND TRUSTS FOR YEAR ENDING 28 February 2024

Tax Bracket	Taxable Income (in Rand)	Rate of Tax (in Rand)
1	$0-237\ 100$	18% of taxable income
2	237 101 - 370 500	42 678 + 26% of taxable income above 237 100
3	370 501 - 512 800	77 362 + 31% of taxable income above 370 500
4	512 801 - 673 000	121 475 + 36% of taxable income above 512 800
5	673 001 – 857 900	179 147 + 39% of taxable income above 673 000
6	857 901 – 1 817 000	251 258 + 41% of taxable income above 857 900
7	1 817 001 and above	644 489 + 45% of taxable income above 1 817 000

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TAX REBATE TYPE	2024/2025
Primary (All individuals)	R17 235
Secondary (Age 65 to below 75)	R9 444
Tertiary (Age 75 and older)	R3 145

TAX THRESHOLDS	2024/2025
Below age 65	R95 750
Age 65 to below 75	R148 217
Age 75 and older	R165 689

MEDICAL AID ~ MONTHLY TAX CREDITS	2024/2025
Main member	R364
First dependant	R364
Each additional member	R246

[Adapted from onlinetax.sagesouthafrica.co.za]

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QUESTION 5

Solution	Marks
5.1.1	
5.1.2	(2)
5.1.3	(3)
5.1.4	(4)
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	(10)

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Solut	ion	Marks
5.2.1		(3)
5.2.2		
5.2.3		(3)
5.2.4	Stanmorephysics.com	
1.0		(2)
		[30]

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Department:
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North West Provincial Government
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE/ NASIONALE SENIOR SERTIFIKAAT

GRADE/GRAAD 12

MATHEMATICAL LITERACY P1/ WISKUNDIGE GELETTERDHEID V1

SEPTEMBER 2025

MARKING GUIDELINES/NASIENRIGLYNE S com

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MARKS/PUNTE: 150

Symbol/Kode	Explanation/Verduideliking	
M	Method/Metode	
MA	Method with accuracy/Metode met akkuraatheid	
CA	Consistent accuracy/Volgehoue akkuraatheid	
A	Accuracy/Akkuraatheid	
C	Conversion/Herleiding	
S	Simplification/Vereenvoudiging	
RT	Reading from a table/graph/document/diagram/Lees vanaf tabel/grafiek/dokument/diagram	
SF	Correct substitution in a formula/Korrekte vervanging in 'n formule	
0	Opinion/Explanation/Opinie/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 rounding/Geen penalisasie vir afronding nie	
AO	Answer only/Slegs antwoord	
MCA	Method with consistent accuracy/Metode met volgehoue akkuraatheid	
RCA	Rounding consistent with accuracy/ Afronding met volgehoue akkuraatheid	

These marking guidelines consist of 12 pages/ Hierdie nasienriglyne bestaan uit 12 bladsye.

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NOTE:

- If a candidate answers a question TWICE, only mark the FIRST attempt.
- If a candidate has crossed out (cancelled) an attempt to a question and NOT redone the solution, mark the crossed out (cancelled) version.
- Consistent accuracy (CA) applies in ALL aspects of the marking guidelines; however, it stops at the second calculation error.
- If the candidate presents any extra solution when reading from the graph, table, layout plan and map, then penalise for any extra item presented.
- Rounding is an independent mark.
- General principle of marking, if the candidate makes one mistake one mark is deducted.
- A conclusion mark can only be awarded if relevant calculations of at least $\frac{1}{3}$ of the maximum mark of the sub-question has been awarded.
- No penalty for rounding (NPR) if the first decimal is correct, except questions involving money.

LET WEL:

- As 'n kandidaat 'n vraag TWEE KEER beantwoord, sien slegs die EERSTE poging na.
- As 'n kandidaat 'n antwoord van 'n vraag doodtrek (kanselleer) en nie oordoen nie, sien die doodgetrekte (gekanselleerde) poging na.
- Volgehoue akkuraatheid (CA) word in ALLE aspekte van die nasienriglyne toegepas, dit hou op by die tweede berekeningsfout of 'breakdown'.
- Wanneer 'n kandidaat aflesings vanaf 'n grafiek, tabel, uitlegplan en kaart geneem en ekstra antwoorde gee, penaliseer vir elke ekstra item.
- Afrondings tel as 'n afsonderlike punt.
- Die algemene beginsel van merk as 'n leerder een fout maak, word een punt afgetrek.
- 'n Gevolgtrekkingspunt kan slegs gegee word indien relevante berekeninge van ten minste $\frac{1}{3}$ van die maksimumpunt van die subvraag toegeken is. Som
- Geen penalisering vir ronding (NPR) as die eerste desimaal korrek is nie, behalwe as vrae geld insluit.

QUES	QUESTION/VRAAG 1 [30 MARKS/PUNTE] ANSWER ONLY FULL MARKS			
Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L	
1.1.1	A South African Citizen/'n Suid-Afrikaanse burger ✓✓A	2A answer (2)	F L1 E	
	OR/OF			
	Permanent resident or Refugee at the time of application/ Permanente inwoner of vlugteling met die tyd van aansoek			
1.1.2	R259 300 000 000 ✓✓A	2A answer (2)	F L1 E	
	✓MA	1MA correct value divided	F	
1.1.3	Monthly threshold = $R92520 \div 12$	by 12	L1	
	$= R7 710 \checkmark M$	1A answer	E	
		(2)		
	77. MI		F	
1.1.4	R1 180 ✓✓A	2A answer	L1	
		(2)	E	

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Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
1.1.5	$R2 190 + R20$ = R2 210 \checkmark MA $= R2 210 - R2 100 \checkmark$ MA	1MA adding correct values 1MA subtract R2 100 from the correct answer 1A answer	F L1 M
	R110 ✓ A	(3)	
1.2.1	Stacked bar graph/ Stapelgrafiek	2A compound stacked bar graph (2)	D L1 E
1.2.2	✓✓A Survey, Observation/Opname, Observasie	2A Survey (2)	D L1 E
1.2.3	√√A Day 5/Dag 5	2A Day 5 (2)	D L1 M
1.2.4	number of medals = $5 + 6 + 7$ MA = $18 \text{ medals/medaljes}$ A	1MA adding correct values 1A 18 medals (2)	D L1 E
1.2.5	✓MA 40:126 ✓MA 5tanmorephysics.com 20:63 ✓A	1A correct values 1MCA correct order 1CA simplified as a ratio (3)	D L1 M
1.3.1	G ✓✓A Accept: The rate of increase in prices over a given period of time./Aanvaar: Die styging in die prysvlakke oor 'n gegewe tydperk.	2A correct answer	F L1 E
	гуирегк.	(2)	
1.3.2	E $\checkmark \checkmark$ A Accept: IQR = Q ₃ - Q ₁ /Aanvaar: IKO = $K_3 - K_1$	2A correct answer (2)	D L1 E
1.3.3	C ✓✓A Accept: The point at which the total cost and total revenue are equal./	2A correct answer	F L1 E
	Aanvaar: Die punt waar die totale uitgawes en die totale inkomste gelyk is.	(2)	
1.3.4	A $\checkmark \checkmark$ A Accept: The middle value of an arranged set of data/ Aanvaar: Die middelwaarde van 'n geordende datastel.	2A correct answer	D L1 E
<u> </u>		[30]	

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Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
2.1.1	\checkmark MA 30 × 8 = 240 balls/balle \checkmark MA 240 ÷ 4 = 60 containers/houers \checkmark A	1MA multiply 30 with 8 1MA dividing answer by 4 1A correct answer	F L2 E
		(3)	
2.1.2	Amount VAT excluded/Bedrag BTW uitgesluit		F L3 E
	✓RT ✓MA R8 097,01 ÷ 1,15	1RT correct value 1MA divide with 115%/1,15	
	= R7 040,88 ✓A = R7 040,88 ÷ 3 ✓MCA	1A correct answer	
	= R7 040,88 ÷ 3 Meri = R2 346,96 ✓ CA	1MCA divide by 3 1CA simplification	
	OR/OF	TCA simplification	
	✓RT R8 097,01× 100/115 ✓MA	1RT correct value	
	= R7 040,88 ✓A	1MA multiplying with $\frac{100}{115}$	
	$= R7.040,88 \div 3 \checkmark MCA$	1A correct answer	
	= R2 346,96 ✓CA	1MCA divide by 3 1CA simplification	
	The production of the sale of	(5)	
	Stanmorephysics.com	CA from number of balls	F
2.1.3	Tennis balls/Tennisballe	from 2.1.1	L3
	✓MA	1MCA multiplying compat	M
-4	$60 \times R249$	1MCA multiplying correct value with 60	
	= R14 940 ✓A	1CA correct answer	
-	D.W. Committee of the c		
	Rolling tennis ball basket/Tennisbalmandjies met wiele R12 792,08		
	Rackets/Rakette		
	(16 - 1 = 15) A for free! I verniet		
1	R2 099 × 15 A	1A correct value 15	
	R31 485 ✓MCA	1MCA multiplying by	
	✓MA	R2 099	
	Racket bags/Raketsakke	1CA correct answer	
	R8 097, 01		
	Total cost/Totale koste ✓MCA		
	R14 940 + R12 792,08 + R31 485 + R8 097,01	1MCA adding all costs	
	R67 314,09 ✓CA	1CA correct cost	
	contractors: Productive Matters	(7)	

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Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
2.2.1	✓✓ RT Two options	2RT correct answer (2)	F L1 E
2.2.2	✓RT R59 515 × 3′ A = R178 545⁄ A	1RT correct value 1MA multiply by 3 1A correct answer	F L2 E
2.2.3	$\frac{\text{R22 } 781,75}{\text{R178 } 545} \times 100\% \checkmark \text{MA}$	CA from 2.2.2 1MCA correct fraction 1MA multiplying by 100%	F L2 M
	= 12,8% ✓CA = 13% ✓R	1CA simplification 1R rounded answer (4)	
2.2.4	Interest paid/rente betaal Year 1/Jaar 1 R59 515 × 112,5% ✓ MA = R66 954,375 ✓ MA Year 2/Jaar 2 R66 954,375 × 112,5% = R75 323,67188 ✓ MA 12,5% × 6/12 = 6,25% ✓ MA R75 323,67188 × 6,25% = R4 707,729492 ✓ CA R75 323,67188 + R4 707,729492 = R80 031,40137 ✓ MCA = R80 031,40137 ✓ MCA = R20 516,40 ✓ CA Lorenzo's bewering is KORREK. Lorenzo's bewering is KORREK. 1	1MA calculating percentage 1MA first year final amount 1MA second year final amount 1MA calculating percentage 1CA 6 months interest amount 1MCA correct final amount 1MA subtract 59 515 from final amount 1CA correct answer 10 conclusion	F L4 D

OR/OF Year 1/Jaar 1 R59 515 × 12,5% \checkmark MA = R7 439,38 (A) = R7 439,38 + R59 515 \checkmark CA = R66 954,375 \checkmark A Year 2/Jaar 2 R66 954,375 × 12,5% = R8 369,30 (B) = R8 369,30 + R66 954,375 = R75 323,67188 \checkmark MA $12,5\% \times \frac{6}{12} = 6,25\% $ \checkmark MA	1MA multiply with 12,5% 1MCA adding correct values 1A year 1 correct amount 1MA second year final amount 1MA calculating percentage	
R75 323,67188 × 6,25% = R4 707,729492 (C) ✓ CA	1CA 6 months interest amount	
R75 323,67188 + R4 707,729492 = R80 031,40137 = A + B + C	1MCA adding correct values 1CA correct answer 1O conclusion	
Lorenzo's statement is CORRECT. Lorenzo's bewering is KORREK.		
OR/OF		
Interest paid/rente betaal ✓✓MC ✓MCA ✓✓MCA R59 515 × 112,5% × 112,5% × 106,25% – 59 515 ✓MCA ✓MCA = R80 031,40137 – 59 515 = R20 516,40 ✓MCA		
✓O Lorenzo's statement is CORRECT. Lorenzo's bewering is KORREK.	(9)	
2.2.5 To avoid paying interest/ <i>Om die betaal van rente te vermy</i> .	2A opinion (2)	F L4 M
	[35]	

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	TION/VRAAG 3 [26 MARKS/PUNTE]		
Q/V	Solution/Oplossing	Explanation/Verduideliking	
	A 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2A correct country	D
3.1	Australia/Australië ✓✓A	(2)	L1
		(2)	Е
2.2	Shooter 2/Doel 2 ✓A	1A correct shooter	D
3.2	Shootel 2/Doel 2 V A	TA correct shooter	L1
	South Africa/Suid-Afrika ✓ A	1A correct country	E
	South Africa Suta Afrika	(2)	
		(2)	D
3.3	100 ✓A	1A 100	L2
5.5	91 ✓A	1A 91	M
	89 ✓A	1A 89	141
		(3)	
		No.	D
3.4	71 78 82 80 01 01 02 02 03 100 100 100 VMA	1MA arranging data in ascending order	D L2
3.4	71, 78, 82, 89, 91, 91, 92, 92, 93, 100, 100, 100	1MA concept of median	M
	$Median/Mediaan = (91+92) \div 2 \checkmark MA$	1CA correct median	IVI
	= 91,5 ✓CA	(3)	
	-0.00	(3)	D
3.5.1	New Zeeland/ Nieu-Seeland		L3
3.3.1		1MA arrange correct data in	M
	67, 79, 80, 89, 89, 91, 91, 92, 94, 96, 100, 100	ascending order	141
	80 + 89	ascending order	
	$Q1 = \frac{80 + 89}{2} \checkmark MA$	1MA correct quartile 1	
	$Q1 = 84.5 \checkmark A$	1A answer	
	Q2 = 91		
	971 1 972		
	$Q3 = \frac{94 + 96}{2}$	1A quartile 3	
	$Q3 = 95^2 \checkmark A \checkmark MA$		
	IQR = Q3 - Q1	1A correct formula	
	IQR = Q3 - Q1 = 95 - 84,5	1CA subtracting values	
	= 10,5% ✓CA	1CA simplification	
		(7)	
	Sycamorephysics.com		D
3.5.2	✓CA ✓✓O Australia, smaller IQR indicates more consistency	1CA correct country	L4
	Australie, die kleiner IKO toon meer konsekwentheid aan	2O conclusion	D
	Austratie, die kleiner IKO toon meer konsekwenineid dan	(3)	
	✓✓A	100 100	_
2.6	Player was injured/ill/disqualified/tired/replaced/substituted	24 000 000 0000	D
3.6	Speler was beseer/siek/gediskwalifiseer/moeg/vervang	2A any one reason	L4
	speier was veseer/siek/geaiskwaiijiseer/moeg/vervang		E
		1MA correct numerator	P
3.7	√MA	production of the control of the con	- Table 1
3.7	$\frac{7}{45} \times 100 \checkmark MA$	1MA correct denominator 1MA % calculation	L3 M
	MA		IVI
	= 15,56% ✓R	1R rounding (4)	
	13,5070		
	I .	[26]	

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OUES	TION/VRAAG 4 [29 MARKS/PUNTE]		
Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
4.1.1	Daniil Medvedev ✓RT 1,98 m ✓RT	1RT Daniil Medvedev 1RT 1,98 m	D L1 E
4.		(2)	
4.1.2	Range = Highest – Lowest/ Omvang = Hoogste - Laagste = 38 – 20 ✓MA = 18 ✓A	1MA concept of mean 1MA subtracting correct values 1A answer (3)	D L2 E
4.1.3	✓A ✓MA \$10,3 million + \$12,2 million + \$11,7 million + \$11,6 million + \$7,3 million = \$53,1 million ✓CA	1A correct 5 values 1MA adding the values 1CA correct answer (3)	F/D L2 E
4.1.4 (a)	The value of one currency for the purpose of conversion to another/Die koers waarteen een geldeenheid vir 'n ander omgeruil sal word.	2A correct definition (2)	F L1 E
4.1.4 (b)	✓MA \$32 million + \$23 million = \$55 million \$55 million × 0,8996 ✓MCA = €49 478 000/€49,478 million	1MA adding correct values 1A answer 1MCA multiply with 0,8996 1CA answer in euros (4)	F L2 M
4.1.5	Percentage female earnings/Persentasie vroulike inkomste \$27,1 million + \$26,7 million + \$14,6 million + \$13,7 million = \$82,1 million ✓ A \$82,1 million ✓ A \$82,1 million ✓ A \$45,7 million ✓ MCA ✓ MCA = 33,41473341% ✓ CA = 33,415 % ✓ CA	1A correct total values 1MCA divided by 245,7 1MCA percentage calculation 1CA answer 1CA correct rounded answer	F/D L4 D
	OR/OF		
	\$27100 000 +\$26 700 000 + \$14 600 000 + \$13 700 000 = \$82 100 000 \(\text{A} \)	1A correct total values	
	$\frac{$82\ 100\ 000}{$$^{245\ 700\ 000}} \times 100\% \text{ MCA}$ $\stackrel{\checkmark}{\text{MCA}}$ $= 33,41473341\%$ $= 33,415\% \text{ CA}$	1MCA divided by 245,7 1MCA percentage calculation 1CA answer 1CA correct rounded answer	

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		(5)	8
Q/V	Solution/Oplossing	Explanation/Verduideliking	g T&L
4.1.6	Mean/Gemiddeld = $\frac{(10,3+12,2+11,6+0,3+7,3+3,9+6,7)MM}{6}$ \checkmark MA	1RT correct values 1MA concept of mean	D L2 M
	$= \frac{45,6 \text{ MM}}{6} \checkmark \text{MA}$	1MA divided by 6	
	= 7,6 million (MM) OR/OF 7 600 000	1A answer in millions (4)
			- F
4.2.1	2+5+7=14		F L1 E
	$\frac{7}{14} = \frac{1}{2} \checkmark A$ $\checkmark A$ OR/OF	1A adding ratio (14) 1A answer	
	Half of the amount/Helfte van die bedrag	2A correct answer (2)
4.2.2	\checkmark A $\frac{5}{14} \times £ 175 000 $ \checkmark MA Stanmore physics.com	CA denominator from 4.2.1 1A correct ratio	F L4 M
	14 = £62 500 ✓ CA	1MA multiplying with £175 000	
	His statement is CORRECT/Sy bewering is KORREK.	1CA correct answer 1O conclusion	
		(4)
		[29	

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	STION/VRAAG 5 [30 MARKS/PUNTE]		m c -
Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
	✓MA	13.64	F
5.1.1	2025 – 1959	1MA subtracting two correct	L1
	= 66 years/jare ✓A	years	E
	LIDONT	1A correct answer	
		AO (2)	
	✓RT ✓MCA	100	F
5.1.2	\$256 800 × 35%	1RT correct rate	L2
	= \$ 89 880 ✓CA	1MCA multiplied by 35%	E
		1CA correct answer	
	(If no dollar unit penalise with one mark/indien geen doller	(3)	
	eenheid penaliseer met een punt)		
5.1.3	Total medical credit/ <i>Totale mediese korting</i>		F
3.1.3	September September September 2015 and a september		L2
	✓MA ✓MA	1MA multiplying R364 by 2	M
	$= (R364 \times 2) + (R246 \times 7)$	1MA multiplying R246 by 7	***
	= R728 + R172	1MCA calculating annual	
	= R2 450 × 12 ✓ MCA	amount	
	= R29 400 ✓CA	1CA correct answer	
		(4)	
	Stanmorephysics.com		
		CA from 5.1.2 and 5.1.3	F
5.1.4	Tax payable in South Africa /		L3
	Belasting betaalbaar in Suid-Afrika		M
	✓MA	13.64 13.1 1.7 1.7.1	
	\$256 800 × 17,1232	1MA multiply by 17,1232	
	= R4 397 237,76 ✓ A	1.4	
	English a commence of an engine	1A correct answer	
	✓RT ✓S	1RT correct tax bracket	
	R644 489 + 45% (4 397 237,76 – 1 817 000)	1S substitution of correct	
	= R644 489 + 45% (2 580 237,76)	value	
	= R644 489 + 1 161 106,992	value	
	✓CA	1CA simplification	
	= R1 805 595,992 − 29 400	1MCA subtracting medical	
	= R1 805 595,992 − 29 400 = R1 776 195,992 − (17 235 + 9 444)	credit and rebate	
	= R1 749 516.99 ✓CA	1CA correct answer	
	CONTROL OF SERVICE CONTROL CON		
	Tax payable in U.S /		
	Belasting betaalbaar in VSA		
	✓MCA	Legisland Districts	
	\$ 89 880 × 17,1232	1MCA multiply by 17,1232	
	R1 539 033,22 ✓CA	1A correct answer	
	√ 0	10 1 :	
	John McEnroe will pay less tax in the U.S/John McEnroe sal	10 conclusion	
	minder belasting betaal in die VSA	(10)	

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Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
	OR/OF Tax payable in South Africa /	CA from 5.1.2 and 5.1.3	
	Belasting betaalbaar in Suid-Afrika ✓MA \$256 800 × 17,1232 = R4 397 237,76 ✓A ✓RT ✓S	1MA multiply by 17,1232 1A correct answer 1RT correct tax bracket 1S substitution of correct	
	R644 489 + 45% (4 397 237,76 - 1 817 000) = R644 489 + 45% (2 580 237,76) = R644 489 + 1 161 106,992 ✓CA = R1 805 595,992 - 29 400 ✓MCA	value 1CA simplification 1MCA subtracting medical credit and rebate	
	= R1 776 195,992 – (17 235 + 9 444) = R1 749 516.99 ✓ CA R1 749 516,99 ÷ 17,1232 ✓ MCA	1CA correct answer 1MCA divide by 17,1232 1A correct answer	
	= \$102 172,32 ✓ CA Tax payable in U.S / Belasting betaalbaar in VSA		
	\$ 89 880 ✓O John McEnroe will pay less tax in the U. S/John McEnroe sal minder belasting betaal in die VSA	1O conclusion (10)	
			22220
5.2.1	✓RT 44 775 – 16 337 ✓RT = 28 438 ✓A	1RT correct value 1RT correct value 1CA simplification (3)	D L2 E
5.2.2	% Difference = $\frac{2021 \text{ sales} - 2020 \text{ sales}}{2020 \text{ sales}} \times 100\%$		D L2
	$= \frac{329190-122607}{122607} \times 100\%$	1MA correct formula 1SF substitution	D
	$= \frac{206563}{122607} \times 100\%$ $\checkmark S$	1S simplification (3)	
	\sqrt{S} = 168,492% \approx 168%	(3)	

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Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
5.2.3	√RT	1RT correct numerator	P
	6	1RT correct denominator	L3
	²⁴ ✓RT		M
	0.25 404	1CA correct decimal	
	= 0,25 ✓CA	(3)	
5.2.4	✓A		D
	From March 2021 there was a strong decline in the sales for 2	1O strong decline	L4
	✓A	1O rapid incline	E
	months but in June and July increased rapidly/		
	Stanmorephysics.com		
	Van Maart 2021 was daar 'n sterk vermindering in verkope,		
	maar van Junie en Julie was daar 'n skielike styging in		
	verkope.	(2)	
	A STATE OF THE STA	[30]	
100		TOTAL/TOTAAL: 150	

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