GAUTENG PROVINCE
EDUCATION
REPUBLIC OF SOUTH AFRICA

JUNE EXAMINATION
GRADE 12

2025

MATHEMATICAL LITERACY

(PAPER 1)

MATHEMATICAL LITERACY P1

C2601E

TIME: 2 hours

MARKS: 100

9 pages + an addendum with 3 annexures

X05

INSTRUCTIONS AND INFORMATION

1. This question paper consists of FOUR questions. Answer ALL the questions.
2. Use the ANNEXURES in the ADDENDUM to answer the following questions:
   ANNEXURE A for QUESTION 2.1
   ANNEXURE B for QUESTION 3.2
   ANNEXURE C for QUESTION 4.1
3. Number your answers correctly according to the numbering system used in this question paper.
4. Start EACH question on a NEW page.
5. An approved calculator (non-programmable and non-graphical) may be used, unless stated otherwise.
6. 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. Write neatly and legibly.

QUESTION 1

1.1 Rise and Shine Primary School presented its budget for the 2023/2024 financial year at its Annual General Meeting (A.G.M.). TABLE 1 below is an extract of the actual income for 2023 and the expected income for 2024.

TABLE 1: ACTUAL AND EXPECTED INCOME FOR RISE AND SHINE PRIMARY SCHOOL FOR 2023/24

INCOME	2023 (ACTUAL) (IN RAND)	2024 (EXPECTED) (IN RAND)
SCHOOL FEES 2024 Total expected roll: 825 learners Exemptions: 64 Non-payers: 97 Total paying pupils: 664 Grade 1 – 7: 605 @ R11 500/year Grade R : **A** @ R15 000/year LESS DISCOUNT **Total school fees**		 6 957 500 885 000 (117 300) 7 725 200
Government subsidy Section 21	591 396	634 890
Grade R subsidy	143 340	154 900
Exemption reimbursement	26 000	34 860
Tuckshop rental	36 250	72 500
Uniform sales	85 600	87 000
Fundraising	144 550	145 000
Interest on investments	32 000	35 600
Other sources	121 800	89 600
TOTAL	**8 180 936**	**8 979 550**

Use TABLE 1 above to answer the questions that follow.

1.1.1 Define the term *income* in this context. (2)

1.1.2 Write down the total school fees expected in 2024 in words. (2)

1.1.3 Calculate the value of **A**, the number of Grade R learners expected in 2024. (2)

1.1.4 Calculate the difference between the total income in 2023 and 2024. (2)

1.1.5 Identify the type of income that doubled in 2024. (2)

1.1.6 Calculate the monthly school fees for Grade R learners. (2)

1.2 Ms Msimang, the hockey coach at Rise and Shine Primary School measured and recorded the heights (in cm) of the Under-13 team players as follows:

150 159 144 146 159 135 156 159 144 158 149

Use the information above and answer the questions that follow.

1.2.1 State whether the above data is categorical or numerical. (2)

1.2.2 Write down the modal height of the hockey team in metres. (2)

1.2.3 Arrange the heights of the players in descending order. (2)

1.2.4 Calculate the median of the data set. (2)

[20]

QUESTION 2

2.1 Mr Yusuf is a 38-year-old quantity surveyor at Arrow Quantity Surveyors. He earns a gross monthly salary of R45 000. He contributes 7,5% of his salary to a pension fund and pays R3 200 per month for medical aid, which covers him and three dependants.

Use the tax table in ANNEXURE A to answer the questions that follow.

2.1.1 What does the abbreviation SARS stand for? (2)

2.1.2 Calculate Mr Yusuf's annual taxable income. (4)

2.1.3 Determine his annual medical tax credit. (3)

2.1.4 Hence, calculate the annual income tax he had to pay for the 2024/2025 tax year. (5)

2.2 Padel is a sport similar to traditional tennis but played on a smaller court, and with a few key differences. Below is an advertisement for the Nox MM2 Hybrid Pro padel racket. The price in the advertisement below includes VAT.



[Source: *Balwinpaddle.co.za*]

Study the information above and answer the questions that follow.

2.2.1 Calculate the cost of the NOX MM2 Hybrid Pro, excluding VAT. (3)

2.2.2 Calculate the percentage decrease in the price of the padel racket, rounded to the nearest whole number. You may use the following formula:

$$\textbf{Percentage decrease} = \frac{\textit{New price} - \textit{Old price}}{\textit{Old price}} \times 100$$ (3)

2.2.3 The Nox MM2 Hybrid Pro padel racket is priced at R2 499 in South Africa. A similar racket is available in the United States for USD 180. A padel player claims that it will be cheaper to purchase the racket in the United States. Verify, showing all calculations, whether the player's statement is valid if the current exchange rate is 1 USD = ZAR 18,19. (4)

[24]

QUESTION 3

3.1 Formula 1 racing is a high-speed motorsport where drivers compete in specially designed single-seater cars on various international tracks. It is also known for its cutting-edge technology, precision driving, and global fan base. The table below shows the 2024 Formula 1 Drivers' Standings, ranking the top drivers in the championship by points earned in each race based on their finishing positions.

TABLE 3: FORMULA 1 DRIVERS' STANDINGS

POSITION	DRIVER	NATIONALITY	CAR	POINTS
1	Max Verstappen	Netherlands	Red Bull Racing	362
2	Lando Norris	United Kingdom	McLaren	315
3	Charles Leclerc	Monaco	Ferrari	291
4	Oscar Piastri	Australia	McLaren	251
5	Carlos Sainz	Spain	Ferrari	240
6	Lewis Hamilton	United Kingdom	Mercedes	189
7	George Russell	United Kingdom	Mercedes	177
8	Sergio Pérez	Mexico	Red Bull Racing	150
9	Fernando Alonso	Spain	Aston Martin	62
10	Nico Hulkenberg	Germany	Haas Ferrari	**A**

[Adapted from *www.formula1.com*]



PLEASE DETACH THIS ADDENDUM WITH 4 PAGES.

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ADDENDUM

4 pages with 3 annexures

ANNEXURE A

QUESTION 2.1

TABLE 2: 2024/2025 TAX YEAR (1 March 2024 – 28 February 2025)

	ANNUAL TAXABLE INCOME (R)	RATES OF TAX (R)
A	1 – 237 100	18% of taxable income
B	237 101 – 370 500	42 678 + 26% of taxable income above 237 100
C	370 501 – 512 800	77 362 + 31% of taxable income above 370 500
D	512 801 – 673 000	121 475 + 36% of taxable income above 512 800
E	673 001 – 857 900	179 147 + 39% of taxable income above 673 000
F	857 901 – 1 817 000	251 258 + 41% of taxable income above 857 900
G	1 817 001 and above	644 489 + 45% of taxable income above 1 817 000

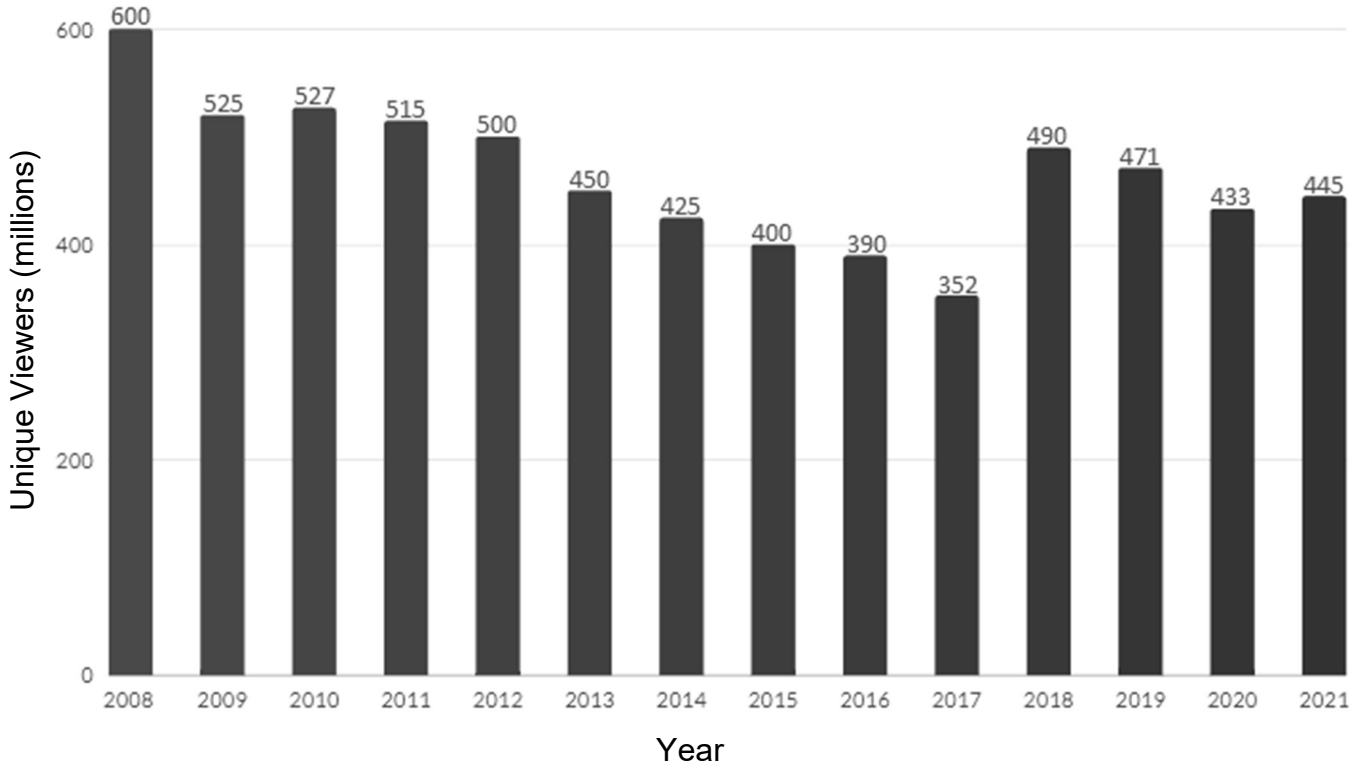
TAX REBATE	TAX YEAR
	2024/2025
Primary	R 17 235
Secondary (65 years and older)	R 9 444
Tertiary (75 years and older)	R 3 145

Medical Monthly Tax Credit	
For the tax payer and one dependant	R 728
For each additional dependant	R 246

[Adapted from *www.sars.gov.za*]

ANNEXURE B

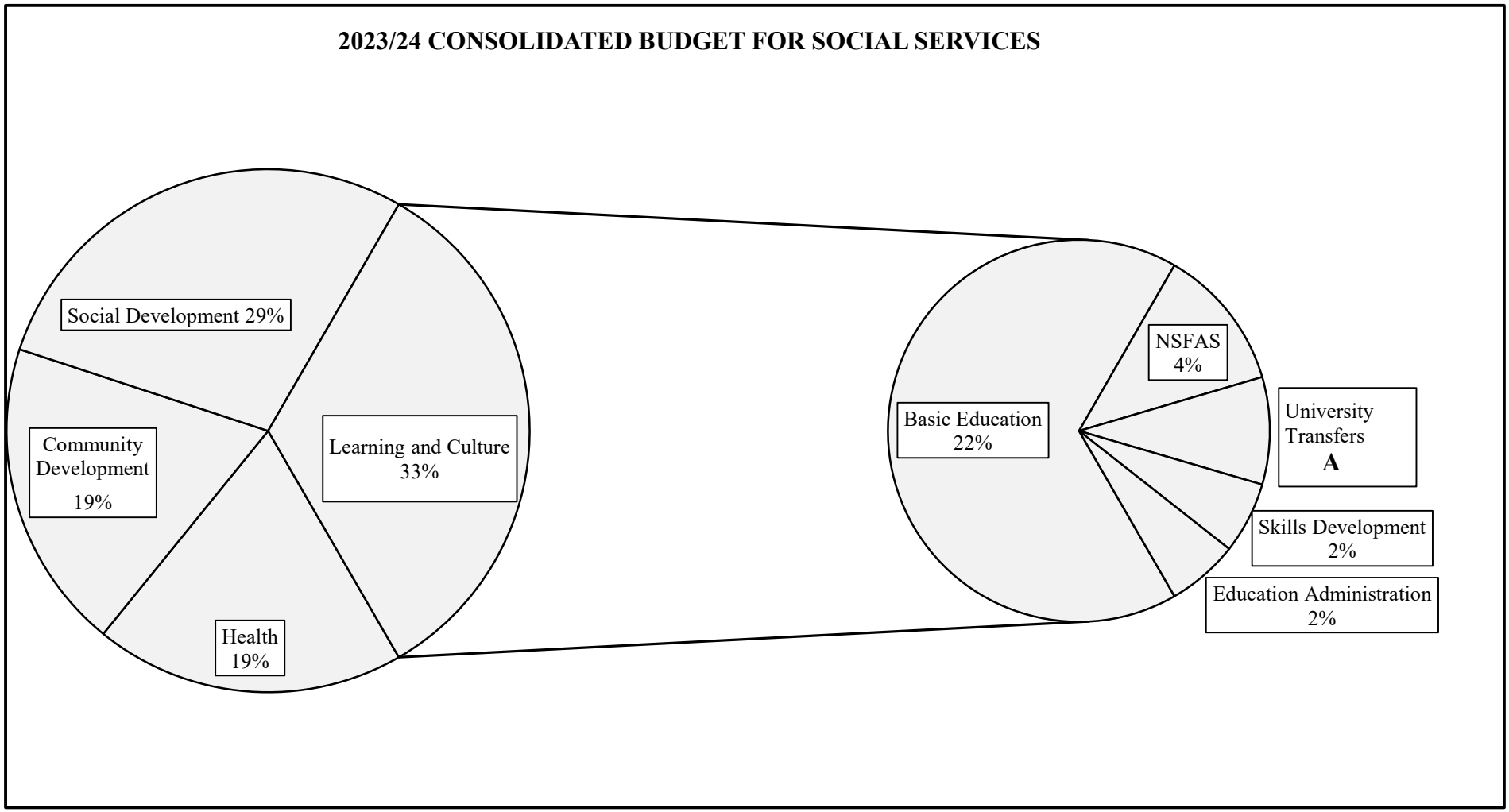
QUESTION 3.2



[Source: *reddit.com*]

ANNEXURE C

QUESTION 4.1



Study the information in TABLE 3 and answer the questions that follow.

3.1.1 Identify the driver with the second-highest points. (2)

3.1.2 Is the data represented in the points column continuous or discrete? Explain your answer. (4)

3.1.3 Calculate the value of **A**, if the range of the points is 331. (3)

3.1.4 Determine the interquartile range for the number of points scored by the Formula 1 drivers. (6)

3.1.5 Determine the probability, as a decimal, of selecting a Formula 1 driver who drives a Ferrari. (3)

3.2 Unique viewership is a benchmark used in media and broadcasting to count the total number of distinct individuals who watched at least one race during a season. Each person is only counted once, regardless of how many races they watched or how frequently they tuned in.

Use ANNEXURE B to answer the following questions.

3.2.1 Describe the general trend in unique viewership from 2014 to 2017. (2)

3.2.2 Determine the mean of the unique number of viewers for Formula 1 racing from 2008 to 2021. (3)

3.2.3 How might a decrease in unique viewership affect sponsors of Formula 1? (2)
[25]

QUESTION 4

4.1 The Minister of Finance is responsible for presenting the government's budget in February of each year.

ANNEXURE C shows the consolidated government expenditure on Social Services for the 2023/24 financial year. A total of R1,35 trillion was allocated to Social Services for this year.

1 trillion = 1 000 billion

1 000 000 000 000 = 1 trillion

Study ANNEXURE C and answer the following questions.

4.1.1 Calculate the value of **A**, the percentage budgeted for University Transfers. (3)

4.1.2 Calculate the amount of money budgeted for Basic Education. Write down the answer in billions. (3)

4.1.3 If the amount budgeted for Social Services makes up 60,3% of the total government expenditure for the 2023/24 financial year, calculate the total government expenditure in trillions. (4)

4.1.4 Discuss TWO ways in which government generates funds/revenue to cover its budget. (4)

4.2 Municipalities across South Africa publish their electricity tariffs annually in compliance with regulations.

Sam works from home most of the time and recently discovered that his electricity bill has increased significantly.

TABLE 4 below shows information regarding electricity tariffs published by the City of Tshwane for the 2022/23 and 2023/24 financial years.

TABLE 4: CITY OF TSHWANE ELECTRICITY TARIFFS FOR 2022–2024 FINANCIAL YEARS.

BLOCK	2022/23 TARIFF (R/KWH)	2023/24 TARIFF (C/KWH)
1 (0 to 100 kWh)	2, 0970	270,33
2 (101 to 400 kWh)	2, 4541	316,37
3 (401 to 650 kWh)	2, 6738	344,67
4 (more than 650 kWh)	2, 8824	371,58
	NB: All tariffs exclude 15% VAT.	

[Adapted from *www.gpwonline.co.za*]

Use the information above and answer the questions that follow.

4.2.1 Define the term tariff in this context. (2)

4.2.2 Determine the number of kWh allocated in block 3. (2)

4.2.3 Calculate the tariff, including VAT, for block 1 for 2023/24 in rands. (3)

4.2.4 In June 2024 Sam spent R1 941,42, including VAT, on electricity. Calculate the number of units (kWh) of electricity he used for the month. (8)

4.2.5 Suggest TWO ways in which Sam can reduce his electricity usage. (2)

[31]

TOTAL: 100