Province of the
EASTERN CAPE
EDUCATION

NATIONAL SENIOR CERTIFICATE

GRADE 11

NOVEMBER 2025

MATHEMATICAL LITERACY P1

MARKS: **100**

TIME: **2 hours**

This question paper consists of 10 pages including 2 answer sheets.

INSTRUCTIONS AND INFORMATION

1. Write your FULL NAME and SURNAME on the ANSWER BOOK.
2. The question paper consists of FOUR QUESTIONS. Answer ALL the questions in the ANSWER BOOK.
3. Start EACH question on a NEW page.
4. Number the answers correctly according to the numbering system used in this question paper.
5. Leave ONE line open between two sub-questions, for example between QUESTION 2.1 and QUESTION 2.2.
6. Use the ANSWER SHEETS attached to answer QUESTIONS 2.2.2, 2.2.3 and 3.2.
7. You may use a non-programmable calculator.
8. You may use appropriate mathematical instruments.
9. Show ALL formulae and substitutions in ALL calculations.
10. Round off your final numerical answers to TWO decimal places, unless stated otherwise.
11. Write neatly and legibly.

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QUESTION 1

1.1 TABLE 1 presents the deposit slip details for funds to be credited to Cynthia Francis's account.

TABLE 1: CYNTHIA FRANCIS'S DEPOSIT SLIP

Deposit Slip										**CFO BANK**
Credit Cynthia Francis										**15 December 2024**
Teller's stamp	Paid by: Cynthia Francis							R		c
	Signature : *C Francis*				Notes			260		00
	Cell no: 061 320 4988				Coins			16		70
					Subtotal			276		70
Authorised by	**Drawer's name**		**Bank**		Branch					
Authority no.	1. A Troyd		BBC		Jamestown			340		00
	2. Z Pasi		DBE		Bloemfontein			480		80
					Total					
Account no.	2	4	5	7	1	6	4	8	3	4

1.1.1 Write down Cynthia's account number. (2)

1.1.2 Determine how many transfers were from other banks. (2)

1.1.3 Write down the total amount of cash that she deposited. (2)

1.1.4 Calculate the total of the amount deposited. (2)

1.2 Zizo, a soccer fan, collected and analysed 2024/2025 goals scored for the Premium Soccer League. The goals scored for the league are indicated below.

TABLE 2: **2024/2025 PREMIER SOCCER LEAGUE GOALS SCORED**

TEAMS	SFC	ORP	SUN	AMA	TSG	KAC	CHI	MGE	CTC
GOALS SCORED	73	60	46	35	35	32	31	30	27

Use the information above to answer the questions that follow.

1.2.1 Choose the correct word to make the statement TRUE.

The above data is numerical / categorical. (2)

1.2.2 Write down the highest number of goals scored in the league. (2)

1.2.3 List the teams that have the same number of goals scored. (2)

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1.3 Choose a definition from COLUMN B that matches the term in COLUMN A. Write only the letter (A–F) next to the question numbers (1.3.1 to 1.3.4) in the ANSWER BOOK, for example 1.3.5 G.

Column A		Column B	
1.3.1	Questionnaire	A	the likelihood of something happening or not happening
1.3.2	Balance	B	a record of income and expenditure
1.3.3	Probability	C	instrument used to collect data
1.3.4	UIF	D	payment made into the bank account
		E	the difference between the debits and credits
		F	unemployment insurance fund

(4 x 2) (8)

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QUESTION 2

2.1 Rowe has been driving a demo car for the past four years. Over these four years he managed to save 16% as a deposit of the price of the brand new car he wants to buy. He is interested in buying a 2025 Cherry Tiggo 7 Pro Max.

Rowe visited the dealer to purchase the car. The price of the car is R499 900,00.

NOTE: Focus will be on the price of the car only (no other initial costs).

Use the above information to answer the following questions.

2.1.1 Calculate the amount Rowe saved for the deposit. (2)

2.1.2 Rowe secured a loan for the outstanding balance from the bank, agreeing to repay it over 36 months with a 9,5% annual simple interest rate.

Calculate how much Rowe will pay if it takes him exactly 36 months to pay the loan. (5)

2.1.3 Determine the monthly instalment Rowe will pay on the loan. (2)

2.1.4 In the showroom there were different colours of the car Rowe wants to buy (2 red, 3 silver, 4 grey and 5 black). Calculate the probability, as a decimal, that Rowe will choose a silver car. (3)

2.2 Waterfront High School wants to renovate their netball court. The school asked builders from the community to volunteer and assist with the renovations. The school estimated that it would take 3 builders 12 days to finish renovations, or it would take 12 builders 3 days to finish renovations. The table below displays this information.

TABLE 3: NUMBER OF BUILDERS AND DAYS TO RENOVATE THE NETBALL COURT

Number of builders	3	4	6	9	12
Number of days	12				3

Use the above information to answer the following questions.

2.2.1 Derive a mathematical formula that represents the information given in the table. (2)

2.2.2 Complete the table above by using the ANSWER SHEET for QUESTION 2.2.2 provided. (3)

2.2.3 Use ANSWER SHEET QUESTION 2.2.3 provided to draw a graph to represent the data in TABLE 3. (4)

2.2.4 Choose the correct word to make the statement false.

The relationship represented by the graph in QUESTION 2.2.3 is direct / indirect proportion. (2)

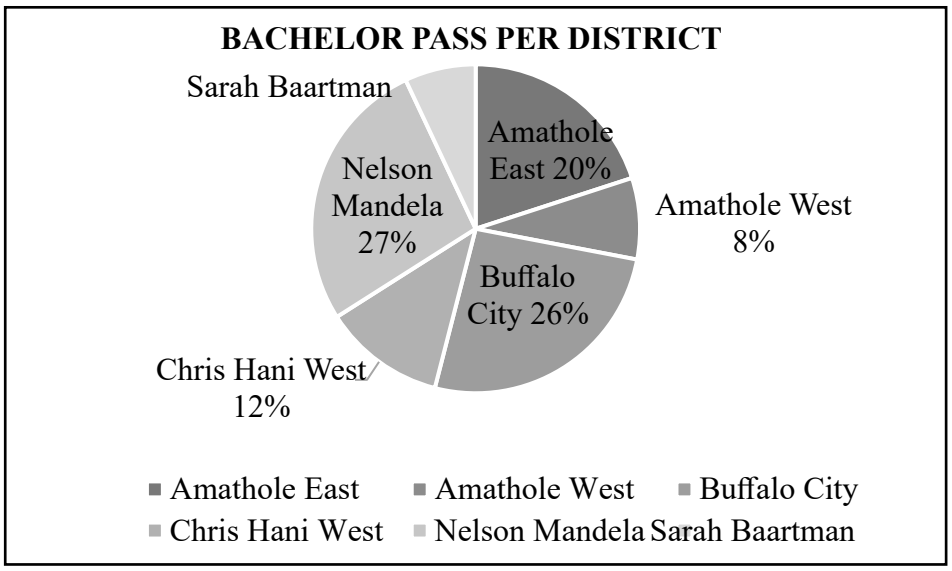
2.3 Joyce's salary is R20 600,00 per month. Last year her monthly salary was R20 000,00. Calculate the inflation rate. (4)

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QUESTION 3

3.1 The pie chart below shows the percentage of bachelor passes obtained by candidates in Cluster B Districts. The total number of bachelors passes in Cluster B Districts is 20 910.



3.1.1 Determine the percentage of bachelor passes obtained by the Sarah Baartman District. (3)

3.1.2 Calculate the number of candidates with bachelor passes in Buffalo City. (3)

3.1.3 Determine the median percentage of bachelors passes. (3)

3.1.4 Write down the district that has the least percentage of bachelor passes. (2)

3.1.5 Calculate the mean percentage of bachelor passes in Cluster B. (3)

3.1.6 Determine the probability of randomly selecting a district with a bachelor pass of less than 10%. Write your answer as a simplified fraction. (3)

3.2 A clinic recorded the distribution of a few antibiotics to a sample group of learners at a school to see whether they contracted TB. The sample group was made up of nine classes. The results are shown in the table below.

TABLE 4: THE RESULTS OF LEARNERS WHO CONTRACTED TB

Classes	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**I**
Number of antibiotics	35	30	10	50	45	35	20	55	10
Number of learners contracted TB	40	45	50	5	20	25	50	10	55

Draw a scatter plot to illustrate the data in the table above. Use the ANSWER SHEET provided for QUESTION 3.2. (6)

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QUESTION 4

4.1 The invoice given below lists cleaning materials bought by Lily. Study the invoice and answer the questions that follow.

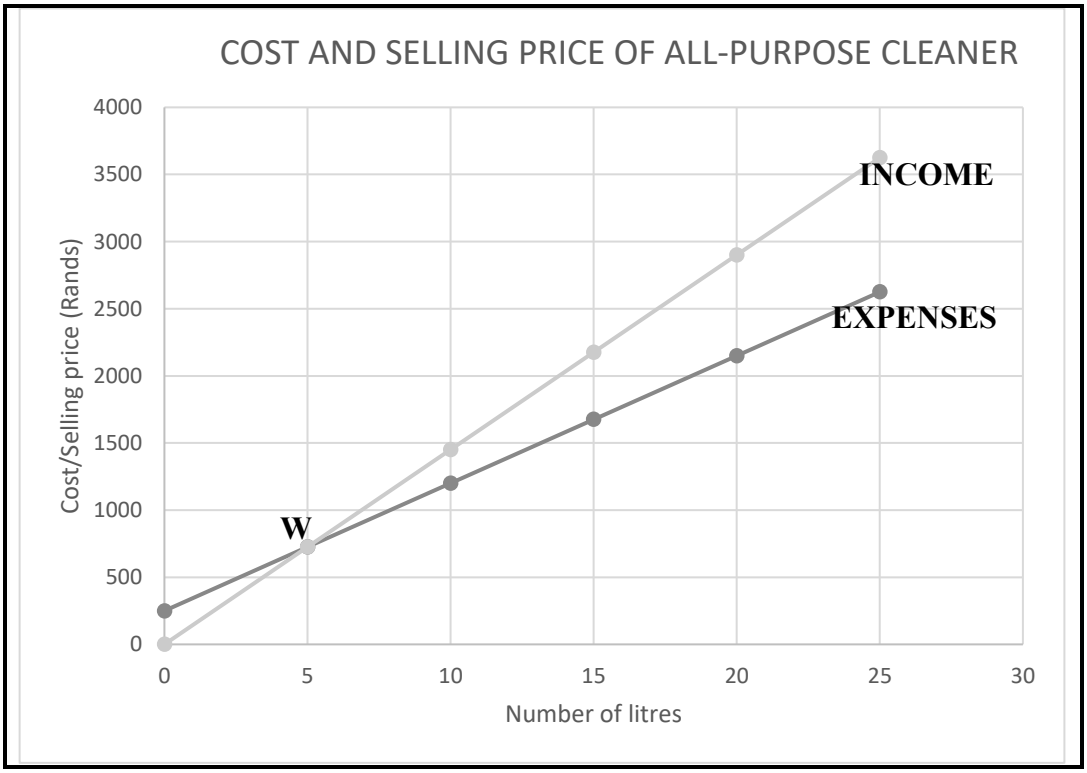
INCOME AND EXPENDITURE				
DESCRIPTION		**LITRES**	**PRICE PER LITRE**	**COST**
1. Water-based general purpose cleaner	2	25	R99,00	R4 950
2. Pine fragrance disinfectant cleaner	2	25	R95,00	R4 750
			Sub Total	…
			VAT (15%)	R1 455
			Total Due	…

4.1.1 Calculate the total cost for ALL the material bought by Lily, including VAT. (4)

4.1.2 Lily states that the profit she makes from selling ONE 25 litre (25ℓ) Pine fragrance disinfectant cleaner is R450,00, if she sells a litre at R135,00.

Verify, showing ALL calculations, if her statement is VALID. (6)

4.1.3 The graph below shows the cost and selling price of all-purpose cleaner material per litre. Study the table and answer the questions that follow.



(a) Give the value(s) of the point marked (**W**) on the graph and explain the meaning of that point. (2)

(b) Write down the formula for Lily's expenses if she must pay rent of R200.
Cost = … + … (2)

4.2 A South African company imports goods worth €45 000 from Europe.

The exchange rate is R1 = € 0,049669

Calculate the cost of the goods in South African Rand. (3)

4.3 Below are the March Test results for nine Grade 11 Mathematical Literacy learners. The test was out of 75 marks.

15 60 75 67 68 73 60 75 58

The teacher claimed that the range of the class is 80%. Show by means of calculations whether the teacher's claim is VALID or not. (5)

4.4 The City of FY2024/25 split the residential prepaid tariffs into Prepaid Low (indigent) and Prepaid High. Electricity tariffs for Prepaid Low are shown in TABLE 5.

TABLE 5: RESIDENTIAL PREPAID LOW INDIGENT (FY 2024/25)

	SIZE	**TARIFF (kWh/R) (Excluding VAT)**
Block 1	0 – 350 kWh	2,216
Block 2	>350 – 500 kWh	2,711
Block 3	> 500 kWh	3,226

Use TABLE 5 above to answer the question that follows.

Calculate how much a resident in this city pays a month, including VAT, when they use 374 kWh of electricity. (6)

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TOTAL: 100

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ANSWER SHEET

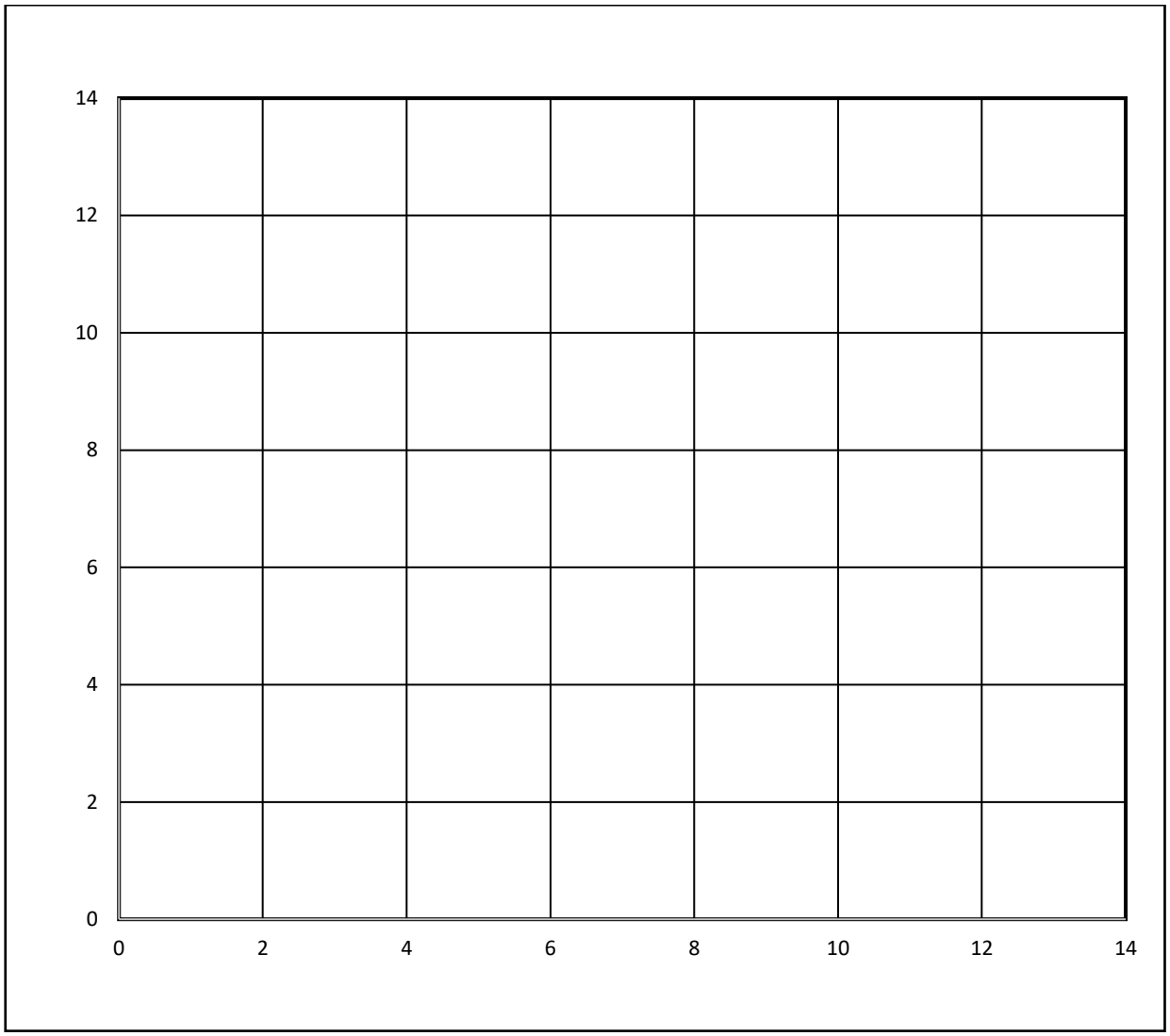
NAME OF SCHOOL:……CLASS: …….

NAME OF LEARNER: ……

QUESTION 2.2.2

NO. OF BUILDERS	3	4	6	7	12
NO. OF DAYS	12				3

QUESTION 2.2.3



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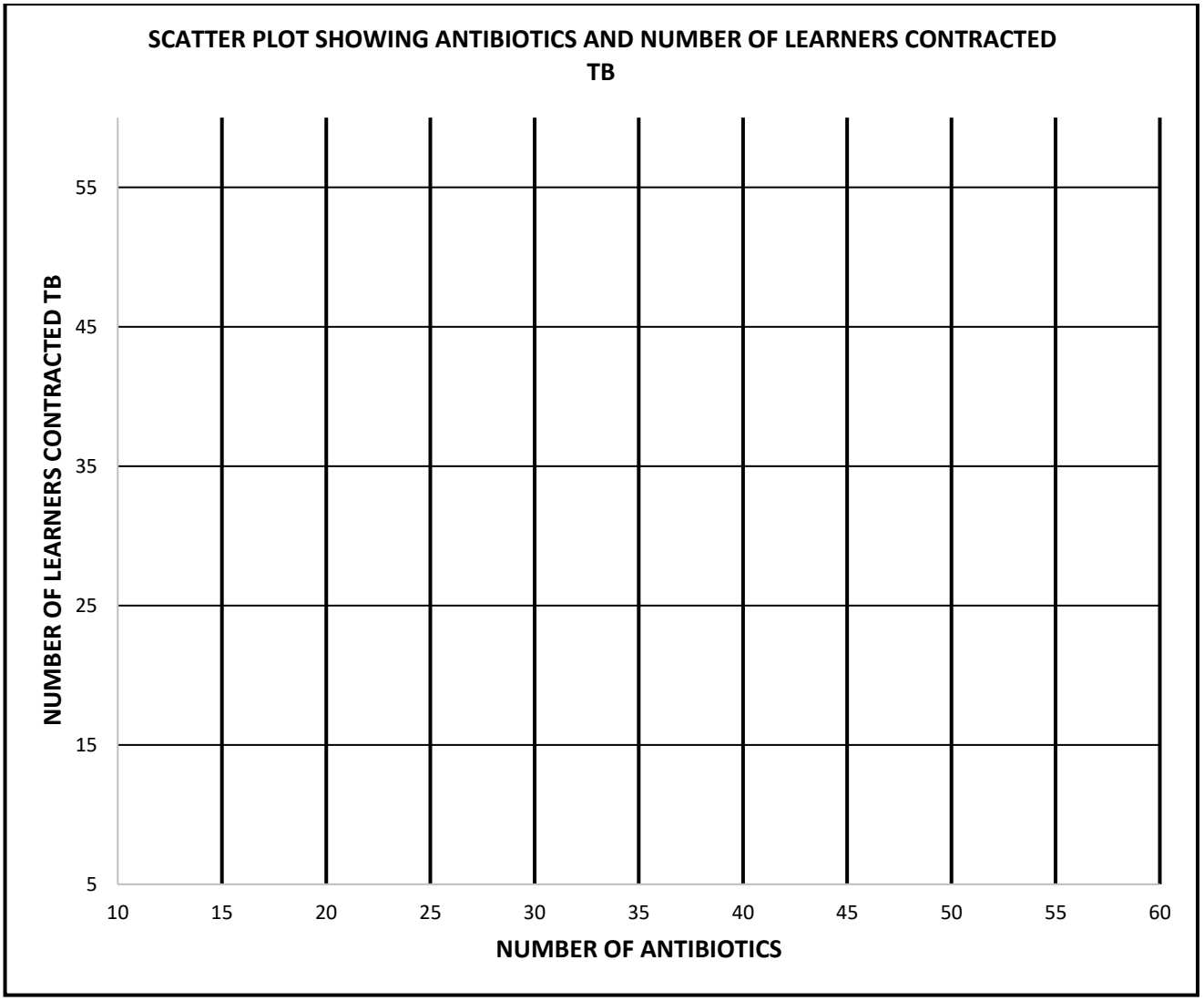
ANSWER SHEET

NAME OF SCHOOL:…… CLASS: …….

NAME OF LEARNER: ……

QUESTION 3.2

CLASSES	A	B	C	D	E	F	G	H	I
Number of antibiotics	35	30	10	50	45	35	20	55	10
Number of learners contracted TB	40	45	50	5	20	25	50	10	55



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