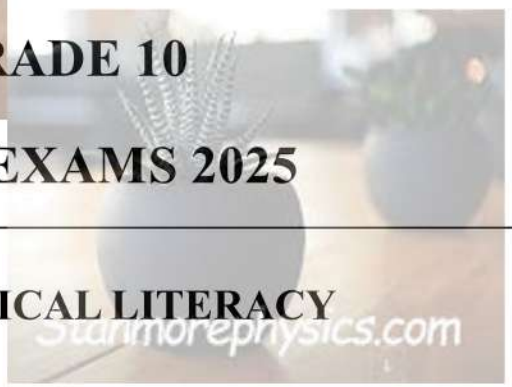
Province of the
EASTERN CAPE
EDUCATION

O.R. TAMBO COASTAL DISTRICT

GRADE 10

FINAL EXAMS 2025



MATHEMATICAL LITERACY

PAPER 1

DATE: 28 /10/2025
MARKS: 75
DURATION: 1hour 30minutes

This question paper consists of 8 pages including Cover page

INSTRUCTIONS AND INFORMATION TO LEARNERS

Read the following instructions carefully before answering the questions.

1. Answer ALL the questions.

2. Number the answers correctly according to the numbering system used in this question paper.

3. An approved calculator (non-programmable and non-graphical) may be used, unless stated otherwise.

4. Diagrams have not been drawn to scale, unless stated otherwise.

5. Round off ALL the final answers according to the context used, unless stated otherwise.

6. Indicate units of measurement, where applicable.

7. Start EACH question on a NEW page.

8. Show ALL calculations clearly.

9. Write neatly and legibly.

QUESTION 1(18)

Mr Mpoba is a Grade 10 teacher. He decided to have one big party to celebrate all the learners in his class register for birthdays.
Given below is the till slip she received after doing some of the shopping for the party.
Study the till slip and answer the questions that follow.

Pick n Pay

Cashier: Mihlali

HAMBURGER BUNS (6 each)	
8 @ 10.99	(1.1.2)
FRUIT JELLYBEANS	
5 @ 25.00	125.00
MAYNARDS WINE GUM ROLL	
20 @ 7.99	159.80
TOMATOES 1KG	17.99 #
SIMBA CHIPS	
10 @ 15.00	150.00
CRISP LETTUCE	
4 @ 12.99	51.96 #
LARGE CARRIER BAG	
3 @ 0.50	1.50
DAIRY MILK OREO SLAB 120 g	
10 @ 25.99	259.90
COKE LIGHT 2L	
10 @ 16.49	164.90
DUE VAT INCL	1 018.97
----------TENDER----------	
MASTERCARD	1 018.97
6423222	
TOTAL ITEMS:	71
----------TAX INVOICE----------	
TAXABLE VAL	VAT VAL
VAT INCL	1 018.97 123.79
# ZERO-RATED	69.95
----------VAT REG NO. 4090105588---------	
*16364 3305 103923 7	24.02.2020 18:54

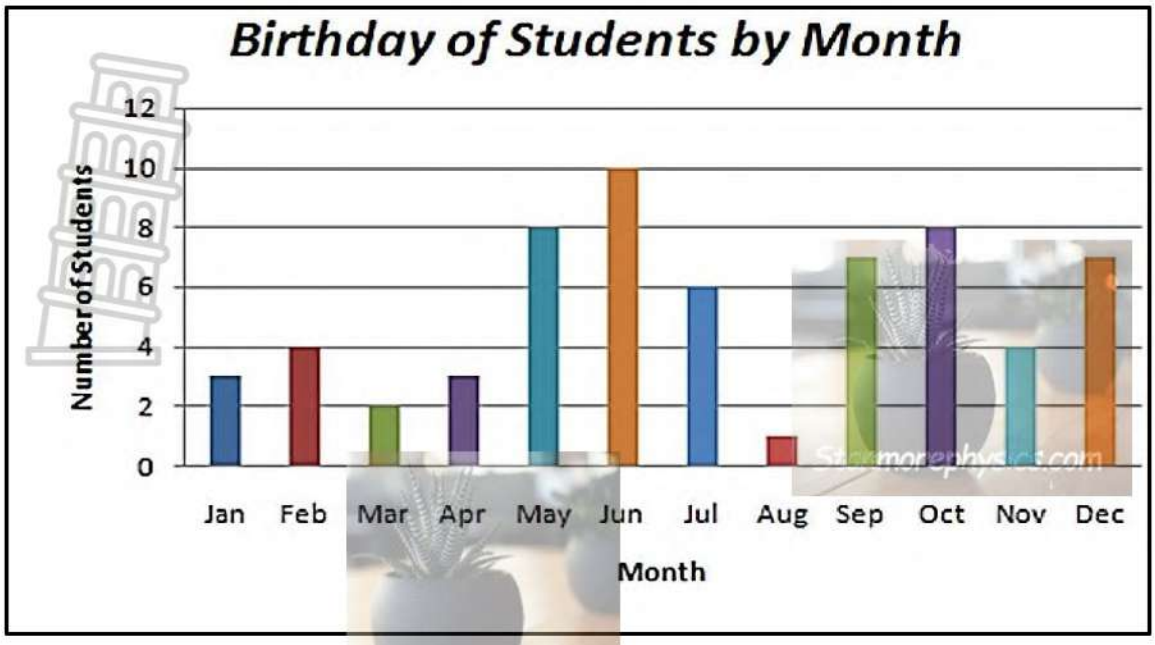
1.1.1 What is the meaning of the hashtag symbol (#) that is found next to certain prices? (2)

1.1.2 Calculate the total cost of the hamburger buns. (2)

1.1.3 Write the cost of one bag of jelly beans as a ratio to the cost of one bag of chips. Give your answer as a simplified ratio. (2)

1.1.4 Show how the VAT amount of R123,79 has been calculated. (3)

1.2 Mrs Magadi decided to display the birthdays of every child that she teaches in a graph. Study the graph given below and answer the questions that follow.



1.2.1 Name the type of graph that Mrs Magadi used. (2)

1.2.2 How many learners does Mrs Magadi teach in total? (2)

1.2.3 Write down the month(s) in which the second-most birthdays are celebrated. (2)

1.2.4 Determine a probability of randomly selecting a month less than 4 students as a decimal and round your answer to two decimal places (3) **(18)**

QUESTION 2 (24)

Mavis is a third year college student. She receives R3 800 from her parents as a monthly allowance. She is also working at the supermarket on weekends and receives a monthly salary of R1 800.TABLE 1 below shows Mavis budget.

TABLE 1: MAVIS BUDGET

INCOME		**EXPENDITURE**	
Allowance	R3 800	Rent	R1500
Salary	R1 800	Food	R1 700
		Clothes	R300
		Entertainment	R250
		Others	R700
Total			**R4 450**

Use the table to answer the questions that follow.

2.1.1 How much does Mavis spend for entertainment? (2)

2.1.2 List Mavis's expenses as either variable or fixed expenses and provide a total for each category. (7)

2.1.3 Calculate her total monthly income. (2)

2.1.4 Calculate the rent as a percentage of the total expenditure. (2)

2.2

Mr. Sibiya compared the water tariffs of his own town to that of Port St Johns. He got the following water tariffs for Port St Johns for the 2024/2025 book year.

TABLE 1: WATER TARIFF FOR MR SIBIYA FOR 2023/2024

CONSUMPTION	TARIFF IN RANDS (VAT INCLUDED)
0 kl – 6 kl	R27,80
6 kl – 20 kl	R34,06
20 kl – 50 kl	R35,14
50 kl – 100 kl	R36,34
100 kl – 200 kl	R38,34
200 kl – 300 kl	R40,62
300 kl +	R51,16

Adapted from: https://www.matlosana.gov.za

Use the information above to answer the questions that follow.

2.2.1 Define the term tariff ? (2)

2.2.2 Write VAT in full (2)

2.2.3 What is the current VAT % in South Africa? (2)

2.2.4 Mr Sibiya claims that 18 kl of water will cost more than R550 for 2024/2025. Verify, by calculating the cost of 18 kl, if his statement is CORRECT. (5)

(24)

QUESTION 3 (15)

3.1 Study TABLE 1 below regarding bank fees at FNB Bank and answer the questions that follow.

TABLE 1: BANK FEES FOR FNB BANK ACCOUNT

FNB Bank Account Fees	
Monthly Account Fee	R65,00
Cellphone banking	R0,00
Cash Withdrawals (FNB Bank ATM) First R1 500 More than R1 500	 R0,00 R12,00 + R1,20 per R100 (or part thereof)
Cash Withdrawals (Other bank ATM)	R15,00

3.1.1 What is the monthly fee of having this account? (2)

3.1.2 Endinako withdraws R1 700 at a FNB Bank ATM. Calculate what this withdrawal will cost her. (3)

3 .1.3 Endinako had to transfer R500 to her mother's account. She decided to use her cellphone banking to do this. How much did this transaction cost her? (2)

3.2

3.2.1 Differentiate between interest and interest rate (4)

3.2.2 Endinako invests R2 000 into a fixed deposit account, for a period of two years. The bank offers her simple interest at a rate of 9,5% p.a. Calculate the value of her investment after two years. (4)

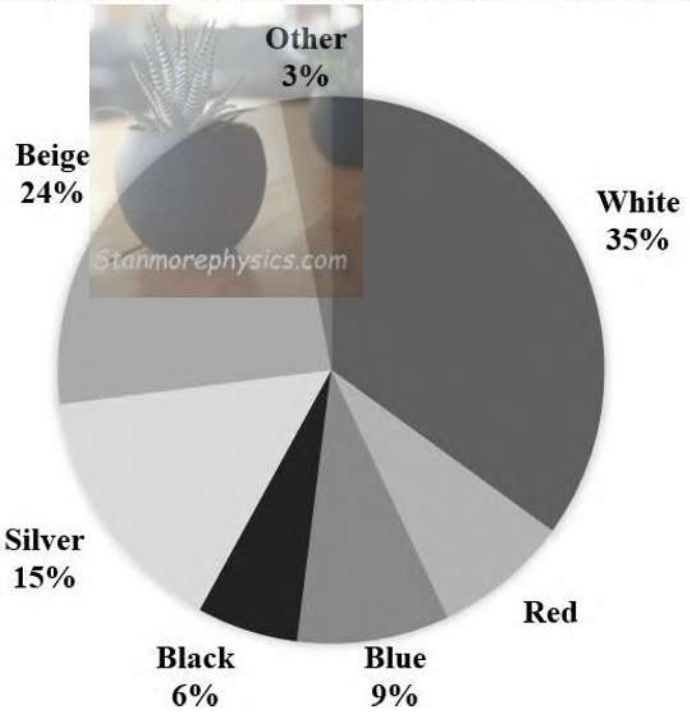
(15)

QUESTION 4 (18)

4.1 Mr. Bernard planned to buy a new car. He is uncertain about the colour and the model of the car. He decided to do some research before he makes a decision.

He came across the following chart that showed the different colour cars sold in the previous month.

CAR SALES DURING A SPECIFIC MONTH



Use the information above to answer the questions that follow.

4.1.1 Name the type of chart shown above. (2)

4.1.2 State weather the above data is categorical or numerical. (2)

4.1.3 Calculate the percentage of red cars. (3)

4.1.4 During this specific month, 350 cars were sold.

Calculate the number of beige cars sold. (2)

4.1.5 Mr. Bernard claims that a white car doesn't attract dirt easily.

Give another valid reason why a white car might be a better option to buy. (2)

4.2 Mr. Bernard came across the different lengths of cars in South Africa.

The different lengths, in metres, are as follow:

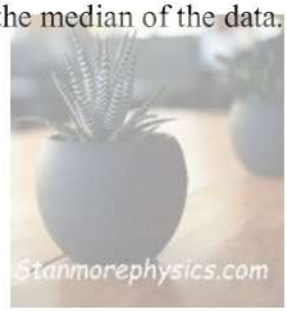
4,1	4,3	5,8	4,1	2,9	5,1
3,6	2,5	4,7	4,4	4,2	5,0

Use the information given above to answer the questions that follow.

4.2.1 Calculate the mean length of the given data in the set. (3)

4.2.2 Calculate the median of the data. (4)

[18]



TOTAL MARK (75)

Province of the
EASTERN CAPE
EDUCATION

Iphondo leMpuma Kapa: Isebe leMfundo
Provinsie van die Oos Kaap: Department van Onderwys
Porafensie Ya Kapa Botjahabela: Lefapha la Thuto

O.R TAMBO COASTAL DISTRICT

NATIONAL SENIOR CERTIFICATE

MATHEMATICAL LITERACY

GRADE 10 PAPER 1

FINAL EXAMINATION

MARKING GUIDELINES

MARKS: 75
DATE: 28/10/2025
DURATION: $1\frac{1}{2}$ hours

This marking guidelines consists of 7 pages including cover page

Symbol	Explanation
M	Method
MA	Method with Accuracy
CA	Consistent Accuracy
A	Accuracy
C	Conversion
D	Define
J	Justification/Reason/Explain
S	Simplification
RT	Read from the table OR a graph
F	Choosing the correct formula
SF	Substitution in formula
O	Opinion
P	Penalty, e.g for no units, incorrect rounding
R	Rounding off
AO	Answer only
NPR	No penalty for rounding off OR omitting units
PR	Penalty for rounding off OR omitting units

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 a graph, table, layout plan and map, then penalize for every extra item presented.**
- **Rounding is an independent mark.**
- **General principle of marking, if the candidate makes one mistake he loses one mark.**

A conclusion mark can only be given if relevant calculations precedes it.

- **No penalty for rounding (NPR) if the first decimal is correct.**

QUESTION 1[18]

QUES	SOLUTION	EXPLANATION	MARK
1.1			
1.1.1	Those are the items that are excluded from VAT. ✓✓	2A explanation (2)	L1
1.1.2	Total = R10,99 × 8 ✓ = R87,92 ✓	1MA multiplying correct values 1A (2)	L1
1.1.3	Jellybeans: chips R25: R15 ✓ 5 : 3 ✓	1MA correct values 1S Minus 1 mark if incorrect order (2)	L1
1.1.4	R1 018,97 – R69,95 = R949,02 ✓ R949,02 ÷ 1,15 = R825,23 ✓ ∴ VAT = R949,02 – R825,23 ✓ = R123,79 OR $\frac{15}{115}$ × R949,02 ✓✓ = R123,79 ✓	1mark subtraction 1M 1MA (3)	L1

1.2.			
1.2.1	Bar graph OR Vertical Bar graph ✓✓ (Accept single bar graph, column bar graph)	2A	L1
1.2.2	Total = 3 + 4 + 2 + 3 + 8 + 10 + 6 + 1 + 7 + 8 + 4 + 7 ✓ = 63 learners ✓	2A	L1
1.2.3	May and October ✓✓	1RG May 1RG October (2)	L1

1.2.4	$\frac{4}{12}$ ✓✓ = 0,3333333333 =0,33✓	Numerator 1 Denominator 1 A 1	L1

(18)

2.1			
2.1.1	R250 ✓✓	2M A (2)	L1
2.1.2	**Fixed expenses** Rent ✓ R1 500 **Total= R 1 500** ✓ **Variable expenses** Food ✓ R1 700 Clothes ✓ R300 Entertainment ✓ R250 Others ✓ R700 **Total = R2 950** ✓	1A for each item (5) 1 A for each total (2) (7)	L1
2.1.3	R3800+1800 ✓ =R5600 ✓	1M Addition 1A answer (2)	L1
2.1.4	$\frac{R1500}{4450}$×100 ✓ =33,70786…. =33,71 ✓	1M Correct values and 1A **NPR** (2)	L2

2.2			
2.2.1	Tariff is a charge per unit for a service rendered. ✓✓	2A (2)	L1
2.2.2	Value added tax ✓✓	2A	L1
2.2.3	15% ✓✓	2A (2)	L1
2.2.4	MA MA CA 0 to 6 = 6 k l: 6 × R27,80 = R166,80 ✓✓ 6 to 18 = 12 kl: 12 × R34,06 = R408,72 ✓ Total R575,52 CA ✓ His statement is TRUE/CORRECT O ✓	1MA multiply correct kl 1MA correct rates 1CA simplification 1CA answer 1 opinion (5)	L4

(24)

3.1			
3.1.1	R65,00 ✓✓	2A (2)	L1
3.1.2	R1 700 – R1 500 = R200 (over R1 500) ✓ ∴ Cost = R12,00 + (R1,20 × 2) ✓ = R14,40 ✓ OR R200 ÷ 100 = 2 ✓ (2 × R1,20) + R12,00 ✓ = R14,40 ✓	1M Subtraction amounts 1SF 1CA (3)	L2
3.1.3	R0,00 ✓✓ OR No money ✓✓	2RT identifying correct value from table (2)	L1
3.2.1	Interest is the actual amount of money earned on an investment or loan ✓✓whereas interest rate is the percentage at which interest is calculated on a loan or investment. ✓✓	2 marks for interest and 2 marks for interest rate (4)	
3.2.2	Interest per year = R2 000 × 0,095 = R190 ✓ Total Interest = R190 × 2 = R380 ✓ Total value = R2 000 + R380 ✓ = R2 380 ✓	1MA calculating interest per year 1M multiplying by 2 years 1 M for addition 1CA final answer (4)	L2
		(15)	

4.1			
4.1.1	Pie chart ✓✓	2A answer (2)	L1
4.1.2	Categorical ✓✓	2A correct answer (2)	L1
4.1.3	% for red cars = 100% - (35%+9%+6%+15%+24%+3%) ✓ = 100% - 92% ✓ = 8%✓	2MA adding and subtracting % 1CA **NPU** (3)	L2
4.1.4	350 X $\frac{24}{100}$ ✓ = 84 cars ✓	1MA multiplying 1A correct answer (2)	L2
4.1.5	More visible on the road/It could make you easier to be spotted ✓✓ **OR** It can hide imperfections well ✓✓ **OR** When re-painting after an accident, white colour matches more easily✓✓ **OR** A white car can improve your car's resale value ✓✓ **OR** White car paint is cheaper than colourful ones ✓✓ **Accept any other relevant ANSWER**	2A reason (2)	L4
4.2.1	$\frac{4,1 + 4,3 + 5,8 + 4,1 + 2,9 + 5,1 + 3,6 + 2,5 + 4,7 + 4,4 + 4,2 + 5,0}{12}$✓ $= \frac{50,7}{12}$ ✓ = 4,225 / 4,23 / 4,2 ✓	1MA adding 1MA concept of mean 1CA answer **NPR** (3)	L2

4.2.2	2,5; 2,9 ; 3,6 ; 4,1 ; 4,1 ; **4,2 ; 4;3** ; 4,4 ; 4,7 ; 5,0 ; 5,1 ; 5,8 ✓✓ Middle value: $= \frac{4,2 + 4,3}{2}$ ✓ = 4,25 ✓	1RT correct values 1MA correct order 1MA concept of median 1CA answer (4)	L3

[18]