LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
EDUCATION

SEKHUKHUNE EAST EDUCATION DISTRICT (SEED) – DISTRICT ON THE RISE

GRADE 10

MATHEMATICAL LITERACY

TEST 2

26 SEPTEMBER 2025

MARKS : 50

DURATION : 1 HOUR

This question paper consists of 5 pages including cover page and answer sheet.

INSTRUCTIONS AND INFORMATION

Read the following instructions carefully before answering the questions.

1.   This question paper consists of THREE questions.

2.   Answer ALL the questions.

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

4.   Clearly show ALL calculations, diagrams, graphs, et cetera that you have used in determining your answers.

5.   Answers only will not necessarily be awarded full marks.

6.   You may use an approved scientific calculator (non-programmable and non-graphical), unless stated otherwise.

7.   If necessary, round off answers to TWO decimal places, unless stated otherwise.

8.   Diagrams are NOT necessarily drawn to scale.

9.   Write neatly and legibly.

QUESTION 1

1.1 Define the following terms:

    1.1.1 Fixed income (1)

    1.1.2 Variable expenditure (1)

    1.1.3 Occasional expenditure (1)

1.2 Sipho earns R12 000 per month. He also receives a monthly transport allowance of R1 500. Calculate Sipho's total monthly income. (2)

1.3 State whether "school uniform bought once a year" is fixed, variable, or occasional expenditure (1)

1.4 Explain the difference between interest and interest rate. (2)

1.5 A fridge costs R5 000 excluding VAT. VAT is charged at 15%.

    1.5.1 Calculate the VAT amount. (1)

    1.5.2 Calculate the VAT inclusive price. (2)

1.6 A family's budget for May is shown below:

Income/Expenditure	Amount in Rands (R)
Salary	19 500
Rent	7 000
Groceries	4 800
Transport	2 700
Entertainment	300

    1.6.1 Calculate the family's total expenditure. (2)

    1.6.2 Calculate the savings (income – expenditure). (2)

    1.6.3 Identify one fixed and one variable expense. (2)

    1.6.4 Suggest one way this family could reduce expenses. (1)

[18]

QUESTION 2

2.1 Capitec bank charges:

- R6.00 per ATM withdrawal

- R3.50 per in-store purchase

- R1.00 per debit order

2.1.1 Moloto makes 4 ATM withdrawals and 6 in-store purchases in a month. Calculate his total transaction charges. (3)

2.1.2 If he also has 5 debit orders, calculate the debit order charges. (2)

2.1.3 Calculate Moloto's total bank charges for the month. (2)

2.1.4 Which option (ATM withdrawal or in-store purchase) is cheaper per transaction? (1)

2.2 A tuckshop buys 100 cans of cooldrink at R6.80 each and sells them for R10.50 each.

2.2.1 Calculate the total cost of buying the stock. (2)

2.2.2 Calculate the total income from selling all cans. (2)
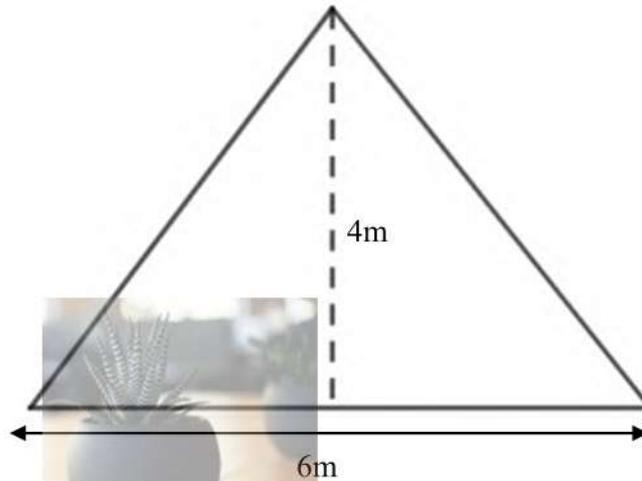
2.2.3 Calculate the profit made. (2)

2.2.4 Express the profit as a percentage of the cost price. (2)

2.2.5 Suggest two ways the tuckshop could increase its profit in future. (2)

[18]

QUESTION 3

3.1   A triangular flower bed has a base of 6 m and a height of 4 m.

3.1.1   Write down the formula for the area of a triangle.   (1)

3.1.2   Calculate the area of the flower bed.   (2)

The flower bed is fenced on all three sides. The other two sides measure 5 m each.

3.1.3   Calculate the perimeter of the flower bed.   (2)

3.2   A rectangular classroom has dimensions 10 m × 8 m. The floor must be tiled.

- Tiles are sold in boxes, each box covering 2 m².
- Supplier A charges R240 per box (no delivery fee).
- Supplier B charges R220 per box but asks R300 for delivery.

3.2.1   Calculate the area of the classroom floor.   (1)

3.2.2   Calculate how many boxes of tiles are needed.   (2)

3.2.3   Calculate the total cost from:

    a)   Supplier A   (2)

    b)   Supplier B   (2)

3.2.4   Which supplier is more cost-effective? Justify your answer.   (2)

[14]

TOTAL: 50 MARKS