



LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
EDUCATION

VHEMBE EAST DISTRICT

Stanmorephysics.com

GRADE 10

MATHEMATICAL LITERACY

TERM 3 TEST

SEPTEMBER 2025cs.com

MARKS : 50

TIME : 1 hour

INSTRUCTIONS AND INFORMATION

1. This question paper consists of THREE questions. Answer ALL the questions.
2. Number the questions correctly according to the numbering system used in this question paper.
3. Start EACH question on a new page.
4. You may use an approved calculator (non-programmable and non-graphical), unless stated otherwise.
5. Show ALL calculations clearly.
6. Round ALL the final answers appropriately according to the context, unless stated otherwise.
7. Indicate units of measurement, where applicable.
8. Diagrams are NOT necessarily drawn to scale, unless stated otherwise.
9. Write neatly and legibly.

QUESTION: 1

Ratshikwekwete secondary school planned a school dance as a fundraising event. Tickets for the dance cost R150 per person. Their budget, income and expenditure statement for the dance are shown below.

BUDGET FOR RATSHIKWEKWETE SECONDARY SCHOOL DANCE			
INCOME (R)		EXPENDITURE (R)	
Ticket sales	31 500	Tickets-printing costs	250
Donation from parents	3 000	Decorations	900
Donation from business	5 000	Music and lighting	7 000
		Refreshment	6 000
		Security	900
TOTAL	R39 500		R15 050

Income and Expenditure statement for Ratshikwekwete secondary school			
INCOME		EXPENDITURE	
TICKET SALES	30 000	TICKETS- PRINTING COSTS	0.00
DONATIONS FROM PARENTS	5 450	DECORATION	580
DONATION FROM BUSINESS	A	MUSIC AND LIGHTING	7 000
		REFRESHMENT	4 215
		SECURITY	900
		GIFTS	430
TOTAL	R40 000		B

Study the graph above and answer the questions that follow.

- 1.1 Explain the term budget in the given context [2]
- 1.2 Determine how many tickets did the school expect to sell. [2]
- 1.3 Calculate the amount **A** donated by business. [2]
- 1.4 State the unexpected expenditure. [2]
- 1.5 Determine the amount **B** the total expenditure. [2]
- 1.6 Express decorations amount in the income and expenditure statement as a percentage of total expenses. Round off the answer to one decimal place. [3]
- 1.7 Determine whether the school made a profit or loss from the school dance. [3]

[16]

QUESTION 2

2.1

Masindi’s grandmother buys sliced bread to make sandwiches and sell them at school. Below is the table showing some ingredients she uses to make sandwiches. some values have been omitted.

Table 1: Average prices for some ingredients to make sandwiches

Ingredients	Standard sandwich Loaf [20 slices]	Polony [2.5 kg]	Margarine spread [500g]
Price without VAT	R9,93	R43.43	B
VAT @ 15%	A	R6.52	R3.13
Price with VAT	R....	R49.95	R23.99

Source: <http://pricecheck.com>

Use the information and TABLE: 1 above to answer the following question

- 2.1.1 convert 500g of margarine spread mass to kilograms. [2]
- 2.1.2 Determine the value of **A** [2]
- 2.1.3 Determine the value of **B** [2]
- 2.1.4 Masindi’s grandmother intends to spend R575 on loaves of bread per month. calculate how many loaves she will get if ONE loaf costs R11.50 [2]

2.2

A shoe company packs their brand of shoes in a small box and then the small boxes will be packed in a bigger box for transportation.



Small box



$l = 2,01m, W = 0,69 m, H = 0,52 m$

Big Box

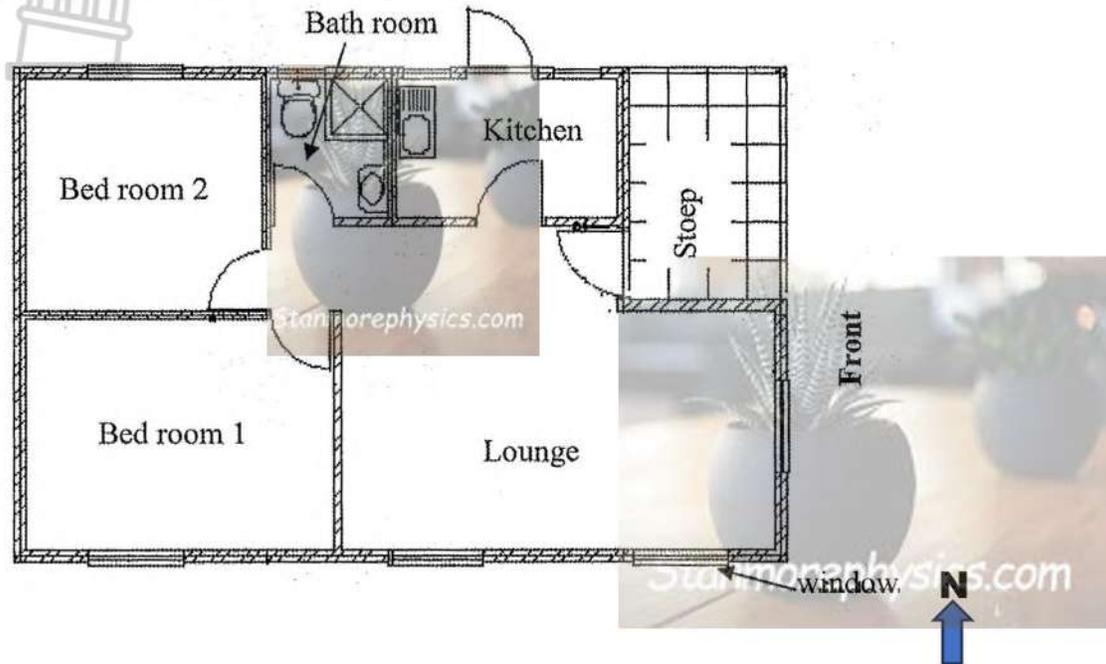
2.2.1 The courier company claims that one big box will have 72 small boxes if the small boxes are lengthwise in the big boxes. Verify if the company’s claim is valid. [7]

[15]

QUESTION: 3

3.1 Mr. Hlongwa intends painting his house. The sketch below shows the layout plan of the rooms in his house.

Layout plan of a house



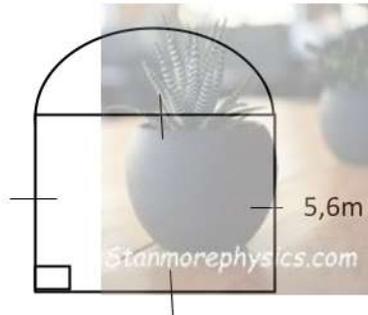
Study the layout plan above and answer the questions that follow,

- 3.1.1 Determine the number of doors in the house. [2]
- 3.1.2 Write down the compass direction of the window in Bedroom 1. [2]
- 3.1.3 Give ONE valid reason for the position of the kitchen in this layout plan. [2]
- 3.1.4 Measure the length of the north side of the house. [2]
- 3.1.5 Mr. Hlongwa invested R10 000 in a fixed deposit account for 3 years at an interest rate of 7,5% p.a. compounded annually. He intends using this money to buy his paint. Calculate the amount of money in his fixed deposit account after three years. [4]

[12]

QUESTION 4

MR MAEDZA is considering putting a fence around the swimming pool at the back of his house. The diagram of the swimming pool is drawn below.



You may use the following formula:

Perimeter = 4 x side

Circumference = $2 \times \pi \times r$

Use $\pi = 3,142$

Use the diagram above to answer the questions that follow.

- 4.1 Calculate the length of the fence needed to fence around the pool. [4]
- 4.2 Determine the cost of fencing the pool if the fence is sold in 5 m rolls for R2 750 per roll. [3]
- TOTAL MARKS [07]**
- TOTAL MARKS [50]**