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Province of the
EASTERN CAPE
EDUCATION

O.R TAMBO
INLAND DISTRICT

GRADE 10

MATHEMATICAL LITERACY

CONTROLLED TEST

SEPTEMBER 2023

MARKS: 50

DURATION: 1 HOUR

This Question paper consists of 6 pages.

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INSTRUCTIONS AND INFORMATION

1. This CONTROLLED TEST consists of FIVE questions. Answer ALL the questions.
2. Number the answers 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 off ALL final answers appropriately according to the given context, unless stated otherwise.
7. Show all your workings on your answer sheet before answering directly the question asked.
8. Write neatly and legibly.

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QUESTION 1

St Annes high 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 St Annes High School Dance			
Income (R)		**Expenditure (R)**	
Ticket sales	31 500	Tickets – printing costs	250
Donations from parents	3 000	Decorations	900
Donations from business	5 000	Music and lighting	7 000
		Refreshments	6 000
		Security	900
Total	R39 500		R15 050

Income and Expenditure statement for St Annes High School Dance			
Income (R)		**Expenditure (R)**	
Ticket sales	30 000	Tickets – printing costs	00
Donations from parents	5 450	Decorations	580
Donations from business	**A**	Music and lighting	7 000
		Refreshments	4 215
		Security	900
		Gifts	430
Total	R40 000		**B**

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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]

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QUESTION 2

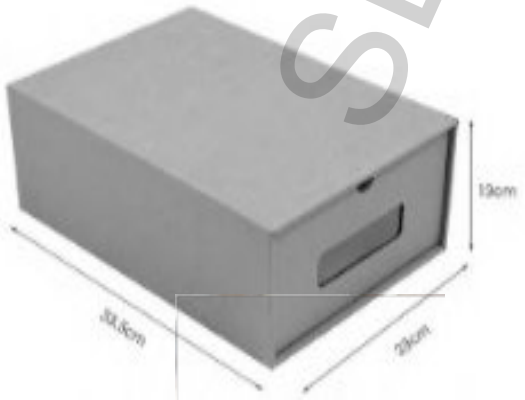
Study the images below showing how to insert a cell phone's sim card and battery.



Write a description of each step based on the images. **[8]**

QUESTION 3

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

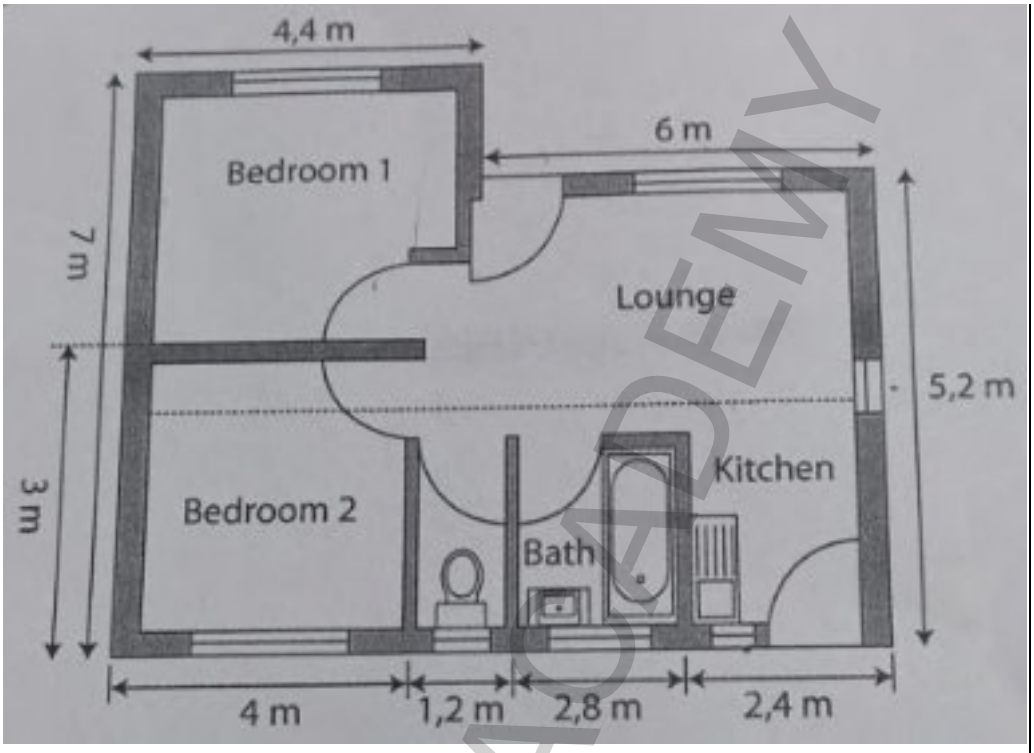
The courier company claims that one big box will have 72 small boxes if the small boxes are lengthwise in the big boxes. Verify if the company's claim is valid. **[7]**

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QUESTION 4

The floor plan of a simple house is shown below.



↑ **N**

4.1 Define the term *floor plan* in the given context (2)

4.2 Write the ratio of the number of windows to the number of inside doors in its simplified form (2)

4.3 Give the direction of bedroom 1 from the kitchen (2)

4.4 Calculate the area of bedroom 1 in m^2.

You may use the formula: **Area = length × breadth** (3)

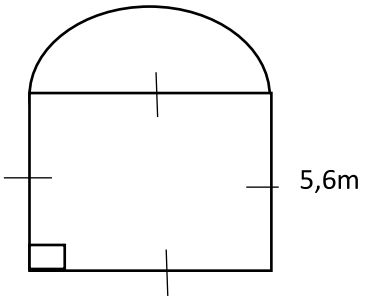
[9]

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QUESTION 5

Ms Nogaga is considering putting a fence around the swimming pool at the back of her 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.

5.1 Calculate the length of the fence needed to fence around the pool. (6)

5.2 Determine the cost of fencing the pool if the fence is sold in 5 m rolls for R2 750 per roll. (4)

[10]

TOTAL MARKS **[50]**

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