



KAMSSA

KAMSSA LOWER SECONDARY LEVEL EXAMINATIONS

SENIOR TWO

END OF YEAR ASSESSMENT 2024

MATHEMATICS

Paper 1

Time: 2 Hours

NAME..... STREAM.....

INSTRUCTIONS

- Attempt all the three questions in this paper
- Each item carries equal marks
- All necessary working and explanations should be written on the answer sheets provided
- Graph papers are provided

	FOR EXAMINER'S USE ONLY		
ITEM ATTEMPTED	1	2	3
SCORES			

ITEM 1

Your friend wrote His ATM card pin as 149 from number system ten (base ten), he very well knows that whenever He wants to withdraw the money He turns this digit to base three to access the correct pin. He did this in fear of theft. Now that he is sick in the hospital, He can neither talk nor write but the money on his account is need to finance hospital bills. The hospital doctor who takes care of him checks on him after every 3 hours and a nurse checks on him after every 4 hours. Both the doctor and nurse last checked on him together at 10:30am. He was treated well and discharged and advised as follows. He was advised to spend three-eighths of the day resting, one six of the day eating, two thirds of the remainder having a healthy diet and the rest of time of the day visiting the hospital for further checkup.

Task

- What do you think was the correct ATM pin
- At what time did both the nurse and doctor check on the patient again together.
- How many hours of the day in a week does he have spent on visiting hospital.

ITEM 2

The authorities on your area have realized that the time taken by house hold in for treatment at the village. Health centre is becoming unbearable due to long queues. This has resulted into numerous quarrels among locals in a bid to get treatment. They were informed by the district authorities that the budget an only cater for addition of a health hospital in a community whose average waiting time for treatment is above 3hours 30min

On a given day, the chairperson LC III led a team that collected data for the time taken by 40 people in waiting for treatment at the hospital and is presented ss shown below.

3	4	6	4	3	1	3	4	6	5
2	4	6	4	3	3	4	6	4	3
2	3	5	6	5	2	3	6	5	5
2	3	7	5	4	2	4	7	5	3

Task

- Draw a frequency distribution table and help the chairperson and the team to find out whether their community deserves an additional hospital, give a reason for your answer.
- Help the team to present the information on a bar chart that would make the district authorities better understand the situation.
- Describe with reason the situation using a bar chart you have down.
- Analyze the information and advise the local authorities on whether the community deserves a bore hall.

ITEM 3

Atim and Opio stays in port bell. They used different ships to islands on Lake Victoria. Atim used MV Uhuru while Opio used MV Kaawa. Both left port bell on the same time. MV Uhuru sailed 100km on a bearing of 030^0 to Ukara island. MV Kaawa sailed 150km on a bearing at 120^0 to Rubundo island.

On reaching Ukara, Atim sold his basket of fish at 120000shillings and made a profit at 20% while Opio also on reaching Rubundo sold his basket of fish at a discount of 10% to Mrs. Awori who paid cash.

Task

- Using appropriate scale show the movement of the two boats on the same accurate diagram on a graph.
Using your diagram in (a) above, find the;
 - Bearing of Rubundo island from Ukara island
 - Distance between Rubundo island and Ukara island.
- How much money (in words) did Atim bought a basket of fish from port bell.
- If Opio also sold the basket of fish at the same price as Atim. How much did He remain with (in words) after offering a discount to Mrs Awori?

END