





# SECONDARY HISTORY AND POLITICAL EDUCATION TEACHERS ASSOCIATION

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## MATHS REVISION STRATEGIC PLAN 2024

**THEME:** NUMBERS

**TOPIC:** NUMBER BASES

### ITEM ONE:

A certain member of your family re-wrote **each digit** of his 4-digit ATM card pin from number system ten (base ten) **to another number system less than four**. He did this in fear of theft. Now his in the hospital, he can neither talk nor write but the money on his account is needed to finance hospital bills. Here is how he re-wrote the pin: 12 20 11 10

### TASK:

- Which number system do you think he used to re-write the pin?
- Use the identified number system to help your family members regenerate the original pin.

**THEME:** NUMBERS

**TOPIC:** WORKING WITH INTEGERS.

### ITEM TWO:

you went to the gym on 1<sup>st</sup> February 2024 with Shs.100,000 with hope to come back with some balance of not below UGX.50,000 to cater for home expenses.

Reaching their, you met a new friend. She tells you that she comes every 4days and you come every 6 days.

You ask her how much she pays so that you compare with yours and she says “I paid a member ship fee and now I only pay UGX. 30,000 a month which caters for all days I choose to come”. However, when it comes to you, you pay UGX.10,000 each day you visit the gym. And you visit the gym 5days a month.

After the gym you decide to hang out for a cup of coffee and a PIZZA and each of you had to pay forty-five thousand five hundred shillings. Later your friend got an emergency call and left before you exchanged contacts.

**TASK:**

- a) i) What are the fewest number of days you will have to wait for, to meet your friend again?  
ii) using the number of days, mark the exact date on the calendar.
- b) i) how much do you spend on the gym a month?  
ii) comparing with how much your friend pays, what can you do and why?
- c) i) how much did you spend that day?  
ii) on the money you came with, how much balance did you take back home?  
iii) will you be able to cater for all home expenses? Explain why you say so.

**THEME: NUMBERS**

**TOPIC: FRACTIONS, PERCENTAGES AND DECIMALS.**

**ITEM THREE:**

You decided to have a joint graduation party with your sibling. This is to cost you a total of UGX.4,000,000. You are nearing the D-day and want to find out whether you have the amount required or not. So you decided to revise your contributions below:

Your parents contributed 12.5% of the money. Your sibling contributed 12.5% more than your parents and since you were the eldest, you contributed  $2\frac{1}{2}$  of the amount your sibling contributed.

**TASK:**

Do you have the required amount for the party or should you postpone it?

**THEME: NUMBERS**

**TOPIC: RECTANGULAR CARTASIAN COORDNATES IN 2 DIMENSIONS.**

**ITEM FOUR:**

Four boys whose homes once located on a grid map form a rectangle, would like to meet at the Centre of their homes to play soccer since they believe that location would be a fair distance for all of them. One boy is located on coordinate (4,6) and the other boy is located on coordinate (4,12).

**TASK:**

- a) Where are the homes of the other two boys on the grid?
- b) On which coordinate will they meet?

**END**