

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



**KAMSSA LOWER SECONDARY LEVEL ASSESSMENT
SENIOR THREE
BEGINNING OF TERM II 2024
MATHEMATICS
TIME: 2 HOURS AND 15 MINUTES**

INSTRUCTIONS

- Attempt all questions in this paper and all necessary working must be clearly shown.

Item 1

Your class monitor forgot the password, a four-digit number to your classroom electronic lock. But luckily, he remembered some hints on how to recall this password. These include;

- (i) The first digit is half of the second
- (ii) The sum of the second and third digit is 10
- (iii) The fourth digit is 1 more than the second
- (iv) The sum of all the digits is 23

Task: Help your class monitor to recall the password.

(10 scores)

Item 2

Kiwunga is a good marketing manager and has two job opportunities where by the first one gives him a salary of 2 million and 4% commission on the company's total sales monthly. The second job pays him 1.5million as salary and commission of 12% of the total sales per month. On average, the first company's total sales per month is 15 million and that of the second company is 40 million.

Task: Advice Kiwunga on which job position to take.

(10 scores)

Item 3

Kyeyune is a father of two children namely Nanyonga and Sebulime. Nanyonga is a mother of three children Kato, Babirye and Kisitu. Sebulime has four sons by the names of David, Ivan, Seth and Moses. Mr. Kyeyune would wish to have a simple presentation of his family to the rest of the clan elders in a clan meeting.

Task As a mathematician, help Mr. Kyeyune to design what to present in the clan meeting

(10 scores)

Item 4

Mr. Kawenja was given the following information that was obtained from the weights of 40 students in the community

55	61	50	57	61	60	61	53
52	62	65	58	59	61	62	51
58	61	61	57	58	60	64	66
58	60	58	58	60	58	55	63
60	59	56	58	61	61	65	60

Task:

- Form a frequency distribution table using class of size 5 starting with a class of 50-54.
 - If he was requested to organize the data for a presentation to community on the effects to curb malnutrition, as a mathematician, help Mr. Kawenja to make a wonderful presentation.
- (10 scores)

Item 5

Joseph and his mother Jane have an age deference of 25 years and the product of their age is 150 years. One day during a mathematics lesson, Joseph borrowed a calculator from Juma and on the screen he finds a number 840 which made him wonder which two numbers he can could have entered to get the product of the figure. Later on, during the festive season Joseph and his elder brother Godfrey were visited by their untie and were each given UGX42,000 and UGX 53,500 respectively. Joseph used all his money to buy 4 shirts and 3 trousers while Godfrey used all his money to buy 5 shirts and 4 trousers.

Tasks

- How old do you think is Joseph and his mother?
- Help Joseph to find out all the possible values that Juma could have typed in the calculator to get the number on the screen.
- Help the two brothers explain to their father how much he would spend if he wanted to buy three trousers and five shirts for their cousin brother John.

Item 6

Mr Waguwenda is a prominent business man in Jinja town. He invested shs 200,000 with his local SACCO at 10% compound interest and at the same time he invested shs 200,000 in a cooperative society which pays a simple interest of 10%. However, in his business, he has an agent who acts as his salesman. Mr Waguwenda pays his salesman a monthly salary of 10% on the first 10 millions of his total sales and 14% of the remainder. In the month of march, the agent sold goods worth UGX 42 million.

Tasks

- Would you recommend Mr waguwenda to invest his money in a local sacco or cooperative society after six years? Justfy.
- Help the salesman or agent to find his salary for the month of march.

END