

KIYALA HIGH SCHOOL
MID-TERM TWO ASSESSMENT TEST 2024

MATHIMATICS

S.3

Time: 2 Hours

INSTRUCTIONS:

- *Attempt all the items in this section*

Item 1

There are very few teachers who have three teaching subjects. A survey was done in your school and it was found that the school has teaching staff of 22 teachers 8 of them teach mathematics, 7 teach physics and 4 teach chemistry. Three teach both mathematics and physics and one teaches mathematics and chemistry. no teacher teaches all the three subjects. The number of teachers who teach physics and chemistry is equal to that of those who teach chemistry but not physics.

Task

- a) Find the number of teachers who teach none of the three subjects.
- b) Find the probability that a teacher picked at random teaches only one subject.

Item 2

The table below shows the marks obtained in a chemistry test by s.3 students in a certain school.

54	49	60	58	54	60	51	57	56	54
53	59	56	53	55	57	62	54	54	56
48	51	52	55	58	65	55	54	57	61

Task

Using class width of 3 marks and starting with that class 48 – 50, make a frequency distribution table and use it to;

- a) State the median class and mode frequency
- b) Calculate the median mark and modal mark.

Item 3

Okello bought a radio at Serna electronic shop Bukedia at 250,000 shillings. He used it for one year and thought of selling it to a friend. A friend deposited 50,000 shillings to Okello and then the balance is paid in installments, 15,000 shillings per month for 8 months.

Task

As a student of mathematics, did Okello make a loss or profit. Express what he made as a percentage.

Item 4

Tom has a cylindrical saucepan with diameter 18 cm. a cook at his school has a similar saucepan with diameter 72 cm. Tom can make porridge for one person from his saucepan.

Task

For how many people can the cook make porridge in the school.

GODDLUCK