**MATHEMATICS**

**S1. TERM 3 2023**

**ACTIVITY OF INTEGRATION**

**TOPIC: EQUATIONS OF STRAIGHT LINES**

1HR

NAME……………………………………………………………………

**For official use**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **B/E** | **R** | **A** | **C** | **E** | **TOTAL** |
|  |  |  |  |  |  |

**SENARIO:**

Luwero district has Public Servants who retire every year after clocking the mandatory retirement age of 60 years.

These people who retire(pensioners) are entitled to monthly benefits in form of pension.

It is a responsibity of the District Chief Administrative Officer (C.A.O) to requisition for the money from the Central Government through the Ministry of Finance and Planning after every three months in order to pay the pensioners.

In most cases the C.A.O makes requisitions for the money but there is always a short fall because the C.A.O has no way of calculating the exact amount of money to be requisitioned and some pensioners end up not being paid.

**SUPPORT**:

The records from the C.A.O’s office are as follows:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Number of Pensioners | 10 | 30 | 20 | 50 | 45 | 15 |
| Amount of money  in Billions. | 10 | 70 | 40 | 130 | 115 | 25 |

**RESOURCES:**

1. Knowledge of Equation of straight lines

2. Knowledge of plotting on the Cartesian plane.

**TASK**:

1. Help the C.A.O,
   * 1. Represent the above data on the graph showing a clear trend.
     2. Come up with the relationship between the amount of money to be requisitioned and the number of pensioners that will simplify the computation of the pension money at any given time.
2. Help the C.A.O to determine the amount of money that would be needed to cater for 200 pensioners.

*End.*