

**SENIOR FOUR (COVID – 19) RECESS TERM 2020**

**SMATA ACADEMIC RESPONSE SUPPORT PROGRAMME**

**S.4 CANDIDATES MATHS REVISION SERIES TASK # 2**

**TOPIC: RATIOS, PROPORTIONS AND VARIATIONS**

**Attempt all questions**

1. The food distributed to the vulnerable people by the COVID-19 Response Team is given in such a way that for every 3 kg - bag of beans one also receives a 6 kg - bag of Maize flour as an individual. Given that a kilogram of beans and maize flour costs shs.4,500 and shs. 2,000 respectively;
  - (a) Find the ratio in which the two food items are given to people.
  - (b) Determine the number of bags of maize flour that should be supplied for every 75,000 kg of beans procured.
  - (c) Find the amount of money required to supply food relief to a vulnerable community of 800 people.
  
2. Four people consume 6 kg of Posho in 3 days. Find how many Kilograms of Posho are needed by nine people to take them through a period of twenty one days of the Lockdown.
  
3. The Cost (C) of feeding a family in a certain locality during the Covid -19 Lockdown per day is partly constant and partly varies directly as the number (N) of the people present in a family. When 2 people are in the family the cost is shs.13,000 and for a family of 5 people the cost is shs. 22,000.
  - (a) Form an equation relating the cost, C and the number, N of the family members.
  - (b) Find the cost for feeding a family of 10 people.
  - (c) Determine the amount of money one would spend to feed a family of 8 people for;
    - (i) 14 days
    - (ii) the next 21 days.
    - (iii) 35 days of the lockdown.
  
4. A trader has two grades of Maize flour grade I and grade II whose cost per kilogram is shs.2,100 and shs.1,600 respectively. Due to the Lockdown, grade I seemed to be expensive for customers yet they needed quality too. So the trader decided to mix them so that the cost of the blend is shs.1800 per kg. In what proportion should the trader mix the two grades.

**# STAY HOME STAY SAFE !!! – TOGETHER AGAINST COVID-19 FIGHT**

**PREPARED BY TEAM SMATA**

**BROUGHT TO YOU BY PATRICK SSENDUJJA**

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