

**MATHEMATICS****S.3 HOLIDAY MATH TEST****Item one.**

Musa is a businessman who deals in agricultural produce business. He visited four markets in a certain week. In market A: he bought 3 bags of beans, 5 bags of maize, 10 bags of potatoes and 3 bags of millet. In market B: he bought 1 bag of beans, 4 bags of potatoes and 2 bags of millet. In market C: he bought 5 bags of beans and 1 bag of maize. In market D: he bought 4 bags of beans, 3 bags of maize, 6 bags of potatoes and 1 bag of millet. He bought each bag of beans at Shs. 45,000, a bag of maize at Shs 30,000, a bag of potatoes at Shs. 15,000 and a bag of millet at Shs. 50,000. He later sold all the produce he had bought at Shs. 50,000 per bag of beans, Shs. 35,000 per bag of maize, Shs. 18,000 per bag of potatoes, and Shs. 55,000 per bag of millet. Task: Through utilizing of matrices, determine Musa's profit.

Our members of Gayaza Market order for produce from Namisindwa Village and the items are as given below.

**Item two.**

Four members of Gayaza Market order for produce from Namisindwa Village and the items are as given below

Allan bought one bag of posho, 5 bags of millet, 2 bags of sorghum and 2 bags of rice.

Bella bought 5 bags of posho, 3 bags of millet and 4 bags of rice.

Cate bought 4 bags of posho and 8 bags of rice.

Dorcus bought 3 bags of rice, 4 bags of sorghum, 3 bags of millet and 2 bags of posho.

The cost per bag of the items bought was: Rice at, UGX 200,000 sorghum at

UGX 60,000, millet at, UGX 75,000 posho at UGX 100,000

**TASK:**

(a) Assist the market members to summarize the above in matrix form for the:

(b) Using your knowledge of matrix multiplication help the members to know how each

shall spend on their purchases, and hence find the total cost for all the four vendors.

(c) If the sales for the four market Vendors was **ugx 14.3 millions** and agreed to share the money amongst Allan, Cate, Bella and Dorcus in the ratio the ratio of **2:4:6:1** respectively.

Help the members to determine how each take and represent the information on a pie chart.

## Item Three.

Kaira prepared a birthday party at her home and invited her friends between the age of 20 to 54 years. She wanted to confirm which age bracket mostly could attend her party. So, she grouped them starting with (20 – 24) years.

The people attended were of age,

30 22 38 25 41 37 33 40

39 38 51 32 48 34 43 24

25 31 37 43 23 46 36 47

39 44 26 36 37 41 29 32

40 38 42 31 49 28 54 35

Make a clear explanation for the people attendance to the party.

## Item four

You moved 5km from your class while walking in the northwest direction to the staffroom looking for the teacher.

Reaching the staffroom, you were told that the teacher is in the park so you turned in the 180° direction and moved 6km towards the teacher.

Reaching the park, you realized that you had a wrong book!

You want to go back to class to get the actual book but using a different pathway since the school has many pathways.

TASK:

a) Accurately illustrate how you moved from the class to the teacher in the

beginning.

b) From your illustration, which other path way will you take to return to class?

c) On which bearing will you turn for you to take that pathway?

d) How far is the park from the class using that pathway?

e) In comparison to the first distance you moved, is it wise to choose that pathway? Give a reason for your answer.

**#practice makes math easier #**

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