

SESEMAT MUKONO REGION
UGANDA LOWER SECONDARY CERTIFICATE OF EDUCATION
COMPETENCE BASED CURRICULUM

END OF YEAR ASSESSMENT - 2023

SENIOR THREE

MATHEMATICS

TIME: 2 HOURS

INSTRUCTIONS TO LEARNERS:

This paper consists of four (4) questions.

Attempt *all* questions.

Where necessary, diagrams must be drawn using a sharp pencil.

For Examiner's Use Only				
1	2	3	4	Total Score

1. In a local community, many people survive through sale of foodstuffs. However, poverty levels remain high. Women in the community gathered for a meeting to improve on their wellbeing and agreed that;
- a) A group having 100 members be formed.
 - b) Weekly collection of shs. 300,000 as the target.
 - c) Saving to be collected for a year, according to 4 categories of work done by the women.

Category of work	Number of women	Amount paid per week per person
Wash peoples' clothes in the neighbourhood.	20	Shs 3,000
Supply foodstuffs to the primary school in the neighbourhood.	40	Shs 5,000
Sell items in the local market	10	Shs 10,000
Operate small stalls within the community	30	Shs 2,000

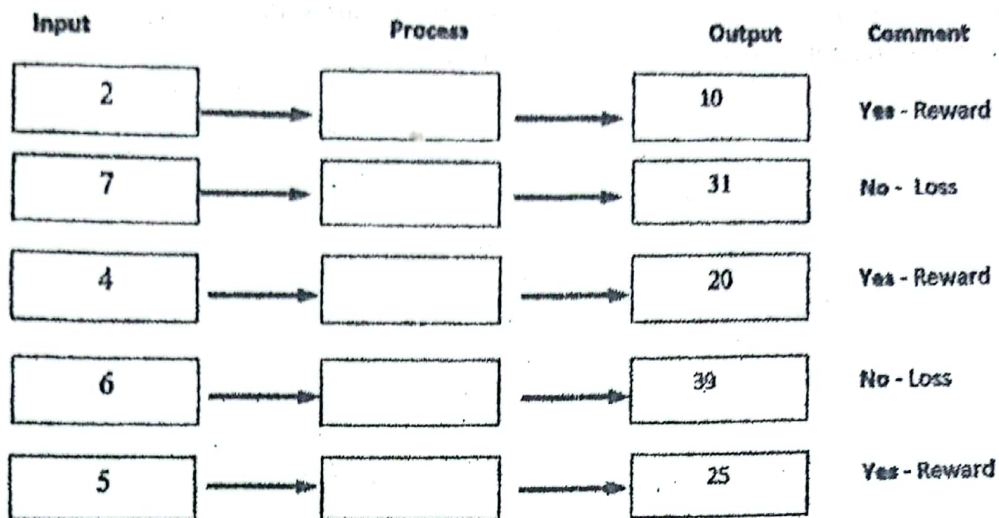
Suppose the women have approached you with this plan. As a learner of Mathematics, how would you help them determine whether it will improve their wellbeing or not.

Suggest any recommendations about this plan.

2. Some entertainment centres have game machines. One game machine was being used by teenagers who would win and be rewarded.
- The machine works in such a way that when the person playing the game presses the input button, he/she proceeds to press the output button which is followed by a display of the comment on whether it is a reward or a loss made.



One of the youngsters kept on losing the game and got disappointed. The teenagers are now discussing how the machine works and the owner of the machine has provided them the information below.



- (a) Show how the machine arrives at this output.
 (b) Suppose the person who owns the machine refused what you obtained, how else you would interpret the correct values to be rewarded.

3. In a certain mathematics test, it was observed that the performance of learners A, B, C, D, E..... was as shown below;

NAME	MARKS
A	36
B	77 ✓
C	54
D	32
E	65
F	46
G	56
H	44
I	16
J	32
K	28
L	23
M	40
N	66
O	52
P	53
Q	51
R	65
S	50
T	34
U	33
V	34
W	15
X	62
Y	68 ✓
Z	48

Task:

Suppose you are the class captain and have been tasked to analyse the information and make a presentation to the class about the performance, how would you prepare for the presentation?

