

- **Read the Case Study Below:**

A company, "EcoFurniture," produces two types of products: *Luxury Chairs* and *Standard Chairs*. Each product requires limited resources: labor hours, machine hours, and raw materials. The table below summarizes the data for each product:

Product	Contribution Margin per Unit (\$)	Labor Hours per Unit	Machine Hours per Unit	Raw Material per Unit (kg)
Luxury Chair	50	3	2	5
Standard Chair	30	2	1	3

The company has the following constraints for the next production period:

- Total available labor hours: **300 hours**
- Total available machine hours: **200 hours**
- Total available raw materials: **400 kg**

- **Questions to Answer:**

a. Which product should the company prioritize to maximize its total contribution margin? Explain your reasoning using calculations.

b. How many units of each product should the company produce under the given constraints? Justify your answer using an appropriate decision-making method (e.g., contribution margin per constrained resource).

c. Discuss how the company could overcome these constraints in the future. Suggest at least two strategies to increase production capacity or efficiency.

- **Submission Guidelines:**

- Prepare a report (2-3 pages) with your analysis and recommendations.
- Include detailed calculations and explanations for your decisions.
- Use tables and graphs if necessary to support your answers.