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Class	XII	Subject	Mathematics (041)
Chapter	12 - Linear Programming	Time Allowed	10 Minutes
Maximum Marks	5	Date	_____

GENERAL INSTRUCTIONS:

1. This question paper contains **1 question** from Chapter 12 - Linear Programming.
2. The question is compulsory.
3. The question carries **5 marks**.
4. Show all steps of your calculations clearly including the graph.
5. Use proper mathematical notation and terminology.
6. Draw neat and labeled diagrams where required.

HOW TO SUBMIT:

1. Solve this question paper in your notebook or on loose sheets.
2. Clearly write your **Name, CBSE Roll Number, School Name, Place, and Date** on the first page.
3. Upload your solved paper at our website: **www.mathlove.in**
4. Check your **detailed report card on the website** after evaluation.

5. For any queries or assistance, WhatsApp us at +91-7869553517

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5 MARKS QUESTION ($1 \times 5 = 5$ Marks)

Q1. A manufacturer produces two types of steel trunks. He has two machines A and B. The first type of trunk requires 3 hours on machine A and 3 hours on machine B. The second type requires 3 hours on machine A and 2 hours on machine B. Machines A and B can work at most 18 hours and 14 hours per day respectively. He earns a profit of ₹ 30 per trunk on the first type of trunk and ₹ 25 per trunk on the second type. Formulate a Linear Programming Problem to find out how many trunks of each type he must make each day to maximize his profit. Solve it graphically and find the maximum profit. **[5]**

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