

Introduction to Linear Programming

Linear programming uses a mathematical model to describe the problem of concern.

The adjective *linear* means that all the mathematical functions in this model are required to be *linear functions*.

The word *programming* does not refer here to computer programming; rather, it is essentially a synonym for *planning*.

Thus, linear programming involves the *planning of activities* to obtain an optimal result, i.e., a result that reaches the specified goal best (according to the mathematical model) among all feasible alternatives.

Formulation as a Linear Programming Problem based on prototype problem

To formulate the mathematical (linear programming) model for this problem, let

X_1 = number of units of product 1 produced per day

X_2 = number of units of product 2 produced per day

Z = total profit per day from producing these two products

Thus, X_1 and X_2 are the *decision variables* for the model

$$Z = 3X_1 + 5X_2$$

The objective is to choose the values of x_1 and x_2 so as to *maximize*

$$Z = 3X_1 + 5X_2$$

Formulation as a Linear Programming Problem based on prototype problem

To summarize, in the mathematical language of linear programming, the problem is to choose values of X_1 and X_2 so as to

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Karin Nielsen-Saines



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Table of Contents Formulating Linear Programming Problems Solutions

1. Understanding the eBook Formulating Linear Programming Problems Solutions
 - The Rise of Digital Reading Formulating Linear Programming Problems Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Formulating Linear Programming Problems Solutions
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Formulating Linear Programming Problems Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Formulating Linear Programming Problems Solutions
 - Personalized Recommendations
 - Formulating Linear Programming Problems Solutions User Reviews and Ratings
 - Formulating Linear Programming Problems Solutions and Bestseller Lists
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 - Formulating Linear Programming Problems Solutions Enhanced eBook Features
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 - Highlighting and Note-Taking Formulating Linear Programming Problems Solutions
 - Interactive Elements Formulating Linear Programming Problems Solutions
8. Staying Engaged with Formulating Linear Programming Problems Solutions
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Formulating Linear Programming Problems Solutions
9. Balancing eBooks and Physical Books Formulating Linear Programming Problems Solutions
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Formulating Linear Programming Problems Solutions
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Formulating Linear Programming Problems Solutions
- Setting Reading Goals Formulating Linear Programming Problems Solutions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Formulating Linear Programming Problems Solutions
- Fact-Checking eBook Content of Formulating Linear Programming Problems Solutions
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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