

LINEAR PROGRAMMING

1. This time, our immune system is the best defense. With this, a Melagael wishes to mix two types of foods in such a way that vitamin contents of the mixture contain at least 8 units of vitamin A and 10 units of vitamin C. Food A contains 2 units/kg of vitamin A and 1 unit/kg of vitamin C. Food B contains 1 unit/kg of vitamin A and 2 units/kg of vitamin C. It costs ₱50 per kg to purchase Food A and ₱70 per kg to purchase Food B. Formulate this problem as a linear programming problem to minimize the cost of such a mixture.

	Vitamin A	Vitamin C	Price
Food A	2 units/kg	1 unit/kg	Php 50
Food B	1 unit/kg	2 units/kg	Php 70

Define the Variables

Let x be the kilogram of Food A to be mixed in the mixture.
 y be the kilogram of Food B to be mixed in the mixture.

Identify the Objective Function

$$z = 50x + 70y$$

Identify the Constraints

$$x \geq 0, y \geq 0$$

$$2x + 1y \geq 8$$

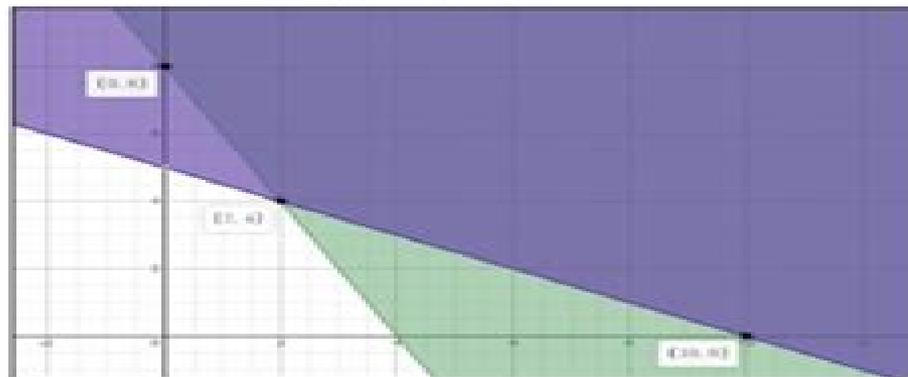
$$x + 2y \geq 10$$

Non-negativity constraints

The mixture should at least contain 8 units of Vitamin A per kilogram.

The mixture should at least contain 10 units of Vitamin C per kilogram.

Illustrate Constraints by Graphing



Linear Programming Exam Questions Alevel Resources

Jin-Ying Zhang



Linear Programming Exam Questions Alevel Resources:

This book delves into Linear Programming Exam Questions Alevel Resources. Linear Programming Exam Questions Alevel Resources is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Linear Programming Exam Questions Alevel Resources, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Linear Programming Exam Questions Alevel Resources
 - Chapter 2: Essential Elements of Linear Programming Exam Questions Alevel Resources
 - Chapter 3: Linear Programming Exam Questions Alevel Resources in Everyday Life
 - Chapter 4: Linear Programming Exam Questions Alevel Resources in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Linear Programming Exam Questions Alevel Resources. The first chapter will explore what Linear Programming Exam Questions Alevel Resources is, why Linear Programming Exam Questions Alevel Resources is vital, and how to effectively learn about Linear Programming Exam Questions Alevel Resources.
3. In chapter 2, the author will delve into the foundational concepts of Linear Programming Exam Questions Alevel Resources. This chapter will elucidate the essential principles that need to be understood to grasp Linear Programming Exam Questions Alevel Resources in its entirety.
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5. In chapter 4, this book will scrutinize the relevance of Linear Programming Exam Questions Alevel Resources in specific contexts. The fourth chapter will explore how Linear Programming Exam Questions Alevel Resources is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Linear Programming Exam Questions Alevel Resources. This chapter will summarize the key points that have been discussed throughout the book.
The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Linear Programming Exam Questions Alevel Resources.

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Table of Contents Linear Programming Exam Questions Alevel Resources

1. Understanding the eBook Linear Programming Exam Questions Alevel Resources
 - The Rise of Digital Reading Linear Programming Exam Questions Alevel Resources
 - Advantages of eBooks Over Traditional Books
2. Identifying Linear Programming Exam Questions Alevel Resources
 - 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 Linear Programming Exam Questions Alevel Resources
 - User-Friendly Interface
4. Exploring eBook Recommendations from Linear Programming Exam Questions Alevel Resources
 - Personalized Recommendations
 - Linear Programming Exam Questions Alevel Resources User Reviews and Ratings
 - Linear Programming Exam Questions Alevel Resources and Bestseller Lists
5. Accessing Linear Programming Exam Questions Alevel Resources Free and Paid eBooks
 - Linear Programming Exam Questions Alevel Resources Public Domain eBooks
 - Linear Programming Exam Questions Alevel Resources eBook Subscription Services
 - Linear Programming Exam Questions Alevel Resources Budget-Friendly Options
6. Navigating Linear Programming Exam Questions Alevel Resources eBook Formats
 - ePub, PDF, MOBI, and More
 - Linear Programming Exam Questions Alevel Resources Compatibility with Devices
 - Linear Programming Exam Questions Alevel Resources Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Linear Programming Exam Questions Alevel Resources
 - Highlighting and Note-Taking Linear Programming Exam Questions Alevel Resources
 - Interactive Elements Linear Programming Exam Questions Alevel Resources

8. Staying Engaged with Linear Programming Exam Questions Alevel Resources
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Linear Programming Exam Questions Alevel Resources
9. Balancing eBooks and Physical Books Linear Programming Exam Questions Alevel Resources
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Linear Programming Exam Questions Alevel Resources
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Linear Programming Exam Questions Alevel Resources
 - Setting Reading Goals Linear Programming Exam Questions Alevel Resources
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Linear Programming Exam Questions Alevel Resources
 - Fact-Checking eBook Content of Linear Programming Exam Questions Alevel Resources
 - 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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