

1. (5 points) Set up the linear programming problem for the following word problem, but DO NOT SOLVE IT. You need to buy some filing cabinets. You know that Cabinet X costs \$10 per unit, requires 6 square feet of floor space, and holds 8 cubic feet of files. Cabinet Y costs \$20 per unit, requires 8 square feet of floor space, and holds 12 cubic feet of files. You have been given \$140 for this purchase, though you don't have to spend that much. The office has room for no more than 72 square feet of cabinets. How many of each model should you buy in order to maximize storage volume?
2. (10 points) Solve the following linear programming using the Simplex Method. Find the maximum of  $f = 7x + 5y$  subject to

$$\begin{cases} 2x + y \leq 100 \\ 4x + 3y \leq 240 \\ x \geq 0, y \geq 0 \end{cases}$$

# Linear Programming Word Problems With Solutions

**RC Schank**



## **Linear Programming Word Problems With Solutions:**

*Combinatorics* Theodore G. Faticoni, 2014-08-21 Bridges combinatorics and probability and uniquely includes detailed formulas and proofs to promote mathematical thinking *Combinatorics An Introduction* introduces readers to counting combinatorics offers examples that feature unique approaches and ideas and presents case by case methods for solving problems Detailing how combinatorial problems arise in many areas of pure mathematics most notably in algebra probability theory topology and geometry this book provides discussion on logic and paradoxes sets and set notations power sets and their cardinality Venn diagrams the multiplication principal and permutations combinations and problems combining the multiplication principal Additional features of this enlightening introduction include Worked examples proofs and exercises in every chapter Detailed explanations of formulas to promote fundamental understanding Promotion of mathematical thinking by examining presented ideas and seeing proofs before reaching conclusions Elementary applications that do not advance beyond the use of Venn diagrams the inclusion exclusion formula the multiplication principal permutations and combinations *Combinatorics An Introduction* is an excellent book for discrete and finite mathematics courses at the upper undergraduate level This book is also ideal for readers who wish to better understand the various applications of elementary combinatorics

**NBS Special Publication**, 1968 *Computer Literature Bibliography: 1964-1967* W. W. Youden, 1965 [Introduction to Linear Programming](#) Leonid Nison Vaserstein, 2003 For a one semester course in Linear Programming for upper level students with varying mathematical backgrounds Written to include three different mathematical levels this text strikes the necessary balance for a class consisting of students with varying mathematical backgrounds It covers the basics of Linear Programs and also includes an appendix that develops many advanced topics in mathematical programming for students who plan to go on to graduate level study in this field Many exercises of varying difficulty provide introductory students the opportunity to progress through the material at a steady pace while advanced students can proceed to the more challenging material *Encyclopaedia of Mathematics* Michiel Hazewinkel, 1997-08-31 This is the first Supplementary volume to Kluwer's highly acclaimed *Encyclopaedia of Mathematics* This additional volume contains nearly 600 new entries written by experts and covers developments and topics not included in the already published 10 volume set These entries have been arranged alphabetically throughout A detailed index is included in the book This Supplementary volume enhances the existing 10 volume set Together these eleven volumes represent the most authoritative comprehensive up to date *Encyclopaedia of Mathematics* available *Production and Operations Management* K.C. Arora, 2004 [Schaum's Outline of Operations Research](#) Richard Bronson, Govindasami Naadimuthu, 1997-07-22 Confusing Textbooks Missed Lectures Not Enough Time Fortunately for you there's Schaum's Outlines More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams Schaum's is the key to faster learning and higher grades in every subject Each Outline presents all the essential course information in an easy to follow topic by topic format You also get hundreds of examples solved

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