STUDY GUIDE: LINEAR PROGRAMMING

1. A steel company produces two types of machine dies, part A and part B. The company makes a $2.00 profit on each part A that it produces and a $5.00 profit on each part B that it produces. Let x = the number of part A produced in a week and y = the number of part B produced in a week. Write the objective function that describes the total weekly profit.
    a. $z = 2x + 5y$
    b. $z = -2(x - 5) + 5(y - 2)$
    c. $z = 5x + 2y$
    d. $z = 7(x + y)$

2. A dietitian needs to purchase food for patients. She can purchase an ounce of chicken for $0.25 and an ounce of potatoes for $0.02. The dietician is bound by the following constraints.
    · Each ounce of chicken contains 13 grams of protein and 24 grams of carbohydrates.
    · Each ounce of potatoes contains 5 grams of protein and 35 grams of carbohydrates.
    · The minimum daily requirements for the patients under the dietitian's care are 45 grams of protein and 58 grams of carbohydrates.

Let x = the number of ounces of chicken and y = the number of ounces of potatoes purchased per patient. Write a system of inequalities that describes these constraints.

A.
$$13x + 24y \geq 45$$
$$5x + 35y \geq 58$$

B.
$$13x + 24x \geq 45$$
$$5y + 35y \geq 58$$

C.
$$13x + 5y \geq 58$$
$$24x + 35y \geq 45$$

D.
$$13x + 5y \geq 45$$
$$24x + 35y \geq 58$$

3. Mrs. White wants to crochet hats and afghans for a church fundraising bazaar. She needs 6 hours to make a hat and 4 hours to make an afghan, and she has no more than 56 hours available. She has material for no more than 12 items, and she wants to make at least two afghans. Let x = the number of hats she makes and y = the number of afghans she makes. Write a system of inequalities that describes these constraints.

A)	B)	C)	D)
$6x + 4y \leq 56$	$6x + 4y \leq 56$	$6x + 4y \geq 56$	$4x + 6y \leq 56$
$x + y \leq 12$	$x + y \leq 12$	$x + y \leq 12$	$x + y \leq 12$
$y \geq 2$	$x \geq 2$	$y \geq 2$	$x \leq 2$

4. Find the maximum or minimum value of the given objective function of a linear programming problem. The figure illustrates the graph of feasible points.

Objective Function: $z = 5x + 6y$.   Find minimum.

a) 40   b) 32   c) 33   d) No minimum

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Sang M. Lee

Linear Programming Study Guide:

Linear Programming and Network Flows Mokhtar S. Bazaraa,John J. Jarvis,Hanif D. Sherali,2009-12-14 The authoritative guide to modeling and solving complex problems with linear programming extensively revised expanded and updated The only book to treat both linear programming techniques and network flows under one cover Linear Programming and Network Flows Fourth Edition has been completely updated with the latest developments on the topic This new edition continues to successfully emphasize modeling concepts the design and analysis of algorithms and implementation strategies for problems in a variety of fields including industrial engineering management science operations research computer science and mathematics The book begins with basic results on linear algebra and convex analysis and a geometrically motivated study of the structure of polyhedral sets is provided Subsequent chapters include coverage of cycling in the simplex method interior point methods and sensitivity and parametric analysis Newly added topics in the Fourth Edition include The cycling phenomenon in linear programming and the geometry of cycling Duality relationships with cycling Elaboration on stable factorizations and implementation strategies Stabilized column generation and acceleration of Benders and Dantzig Wolfe decomposition methods Line search and dual ascent ideas for the out of kilter algorithm Heap implementation comments negative cost circuit insights and additional convergence analyses for shortest path problems The authors present concepts and techniques that are illustrated by numerical examples along with insights complete with detailed mathematical analysis and justification An emphasis is placed on providing geometric viewpoints and economic interpretations as well as strengthening the understanding of the fundamental ideas Each chapter is accompanied by Notes and References sections that provide historical developments in addition to current and future trends Updated exercises allow readers to test their comprehension of the presented material and extensive references provide resources for further study Linear Programming and Network Flows Fourth Edition is an excellent book for linear programming and network flow courses at the upper undergraduate and graduate levels It is also a valuable resource for applied scientists who would like to refresh their understanding of linear programming and network flow techniques **ACCA Paper F5 - Performance Mgt Study Text** BPP Learning Media,2009-07-01 The Association of Chartered Certified Accountants ACCA is the global body for professional accountants With over 100 years of providing world class accounting and finance qualifications the ACCA has significantly raised its international profile in recent years and now supports a BSc Hons in Applied Accounting and an MBA BPP Learning Media is an ACCA Official Publisher Paper F5 Performance Management aims to develop knowledge and skills in the application of management accounting information Students will need to have a knowledge of management accounting techniques and be able to apply their knowledge to a performance management problem The emphasis is on practical elements and application to the real world F5 is the middle paper in the management accounting section of the qualification structure between F2 which concerns just techniques and P5 which thinks strategically The key syllabus areas in F5 are

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