Ex. 2) A friend invites you to play the following game: 2 coins are to be selected at random from 6 coins: 2 nickels, 3 dimes, 1 quarter. If the sum of the values of the coins is 10, 20, or 30 cents, your friend pays you 25 cents. Otherwise, you must pay your friend the value of the coins. What is your expected gain per play of the game?

$NN = 10$

$ND = 15$

$DD = 20$

$NQ = 30$

$DQ = 35$

Value of X	$Pr[x]$
-35	$\dfrac{C(3,1)\cdot C(1,1)}{C(6,2)} = \dfrac{3}{15}$
-15	$\dfrac{C(2,1)\cdot C(3,1)}{C(6,2)} = \dfrac{6}{15}$
$+25$	$\dfrac{C(2,2)}{C(6,2)} + \dfrac{C(3,2)}{C(6,2)} + \dfrac{C(2,1)\cdot C(1,1)}{C(6,2)} = \dfrac{6}{15}$

$$E[x] = -35\cdot\frac{3}{15} + -15\cdot\frac{6}{15} + 25\cdot\frac{6}{15} = \boxed{-3}$$

loss of 3¢ per play

Finite Math

M Tight

Finite Math:

Topics in Finite and Discrete Mathematics Sheldon M. Ross,2000-07-31 A text for engineering students with many examples not normally found in finite mathematics courses   **The Joy of Finite Mathematics** Chris P. Tsokos,Rebecca D. Wooten,2015-10-27 The Joy of Finite Mathematics The Language and Art of Math teaches students basic finite mathematics through a foundational understanding of the underlying symbolic language and its many dialects including logic set theory combinatorics counting probability statistics geometry algebra and finance Through detailed explanations of the concepts step by step procedures and clearly defined formulae readers learn to apply math to subjects ranging from reason logic to finance personal budget making this interactive and engaging book appropriate for non science undergraduate students in the liberal arts social sciences finance economics and other humanities areas The authors utilize important historical facts pose interesting and relevant questions and reference real world events to challenge inspire and motivate students to learn the subject of mathematical thinking and its relevance The book is based on the authors experience teaching Liberal Arts Math and other courses to students of various backgrounds and majors and is also appropriate for preparing students for Florida s CLAST exam or similar core requirements Highlighted definitions rules methods and procedures and abundant tables diagrams and graphs clearly illustrate important concepts and methods Provides end of chapter vocabulary and concept reviews as well as robust review exercises and a practice test Contains information relevant to a wide range of topics including symbolic language contemporary math liberal arts math social sciences math basic math for finance math for humanities probability and the C L A S T exam Optional advanced sections and challenging problems are included for use at the discretion of the instructor Online resources include PowerPoint Presentations for instructors and a useful student manual   *Finite Mathematics* Stefan Waner,Steven R. Costenoble,2001 FINITE MATHEMATICS blends elements of reform with a strong emphasis on applications and uses technology to promote understanding of the concepts and relevance of the material Users praise the diversity breadth and abundance of examples and exercises a large number of which are based on referenced data from business economics life and social sciences The authors carefully strike a pedagogically sound balance between applications based on real data and more traditional generic applications An extensive companion web site contains interactive tutorials comprehensive chapter summaries optional material and a number of useful online utilities Information is presented in a conversational and student oriented style with frequent use of question and answer dialogue format that encourages the development of mathematical curiosity and intuition   **A Beginner's Guide to Finite Mathematics** W.D. Wallis,2003-11-06 This concisely written text in finite mathematics gives a sequential distinctly applied presentation of topics employing a pedagogical approach that is ideal for freshmen and sophomores in business the social sciences and the liberal arts The work opens with a brief review of sets and numbers followed by an introduction to data sets counting arguments and the Binomial Theorem which sets the foundation for elementary probability theory and some basic statistics Further chapters

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fundamentals of finite mathematics in a style tailored for beginners but at the same time covers the subject matter in sufficient depth so that the student can see a rich variety of realistic and relevant applications Some applications of probability game theory and Markov chains are given Comprised of 10 chapters this book begins with an introduction to set theory followed by a discussion on Cartesian coordinate systems and graphs Subsequent chapters focus on linear programming from a geometric and algebraic point of view matrices the solution of linear systems and applications the simplex method for solving linear programming problems and probability and probability models for finite sample spaces as well as permutations combinations and counting methods Basic concepts in statistics are also considered along with the mathematics of finance The final chapter is devoted to computers and programming languages such as BASIC This monograph is intended for students and instructors of applied mathematics **Finite Mathematics** David Dubriske,Jay Graening,Paul E. Long,Todd Lee,Paula Grafton Young,2004 Contains detailed solutions for all odd numbered exercises **Applied Finite Math** Tan,1994-04 Finite Mathematics Carla C. Morris,Robert M. Stark,2015-09-15 Features step by step examples based on actual data and connects fundamental mathematical modeling skills and decision making concepts to everyday applicability Featuring key linear programming matrix and probability concepts Finite Mathematics Models and Applications emphasizes cross disciplinary applications that relate mathematics to everyday life The book provides a unique combination of practical mathematical applications to illustrate the wide use of mathematics in fields ranging from business economics finance management operations research and the life and social sciences In order to emphasize the main concepts of each chapter Finite Mathematics Models and Applications features plentiful pedagogical elements throughout such as special exercises end notes hints select solutions biographies of key mathematicians boxed key principles a glossary of important terms and topics and an overview of use of technology The book encourages the modeling of linear programs and their solutions and uses common computer software programs such as LINDO In addition to extensive chapters on probability and statistics principles and applications of matrices are included as well as topics for enrichment such as the Monte Carlo method game theory kinship matrices and dynamic programming Supplemented with online instructional support materials the book features coverage including Algebra Skills Mathematics of Finance Matrix Algebra Geometric Solutions Simplex Methods Application Models Set and Probability Relationships Random Variables and Probability Distributions Markov Chains Mathematical Statistics Enrichment in Finite Mathematics An ideal textbook Finite Mathematics Models and Applications is intended for students in fields from entrepreneurial and economic to environmental and social science including many in the arts and humanities *Finite Mathematics, Models, and Structure* William J. Adams,2009-02-16 Still another book on finite math Why Hasnt everything that should have been said been said No I would argue The shortcoming that troubles me most about the books I am familiar with is their failure to provide perspective on what math technique and the use of technology can do for us and its limitations This can only be addressed through vigorous

and sustained use of the mathematical modeling perspective which is a hallmark of this books exposition A point continually stressed is that reaching a mathematical answer to a problem is not the end of the story It is in a sense the end of a chapter but the next chapter is concerned with questions about whether and how the mathematical answer should be implemented Also addressed is the question of what to consider when more than one answer is obtained for a problem **Finite Mathematics and Its Applications** Larry J. Goldstein,David I. Schneider,Steven Hair,Martha J. Siegel,2017-01-03 For Finite Math courses for students majoring in business economics life science or social sciences The most relevant choice Finite Mathematics is a comprehensive yet flexible text for students majoring in business economics life science or social sciences Its varied and relevant applications are designed to pique and hold student interest and the depth of coverage provides a solid foundation for students future coursework and careers Built in optional instruction for the latest technology graphing calculators spreadsheets and WolframAlpha gives instructors flexibility in deciding how to integrate these tools into their course Thousands of well crafted exercises a hallmark of this text are available in print and online in MyLab tm Math to enable a wide range of practice in skills applications concepts and technology In the 12th Edition new co author Steve Hair Pennsylvania State University brings a fresh eye to the content and MyLab tm Math course based on his experience in the classroom In addition to its updated applications exercises and technology coverage the revision infuses modern topics such as health statistics and content revisions based on user feedback The authors relied on aggregated student usage and performance data from MyLab tm Math to improve the quality and quantity of exercises Also available with MyLab Math MyLab tm Math is an online homework tutorial and assessment program designed to work with this text to engage students and improve results Within its structured environment students practice what they learn test their understanding and pursue a personalized study plan that helps them absorb course material and understand difficult concepts In the new edition MyLab Math has expanded to include a suite of new videos Interactive Figures exercises that require step by step solutions support for the graphing calculator and more Note You are purchasing a standalone product MyLab does not come packaged with this content Students if interested in purchasing this title with MyLab ask your instructor for the correct package ISBN and Course ID Instructors contact your Pearson representative for more information If you would like to purchase both the physical text and MyLab search for 0134464427 9780134464428 Finite Mathematics Its Applications plus MyLab Math with Pearson eText Access Card Package Package consists of 0134437764 9780134437767 Finite Mathematics Its Applications 0321431308 9780321431301 MyLab Math Glue in Access Card 0321654064 9780321654069 MyLab Math Inside Star Sticker <u>Finite Math, Custom Publication</u> Geoffrey C. Berresford,2005-06 **Finite Mathematics and Calculus** Guillermo Owen,Marshall Evans Munroe,1971 **Finite Mathematics** Margaret L. Lial,Raymond N. Greenwell,Nathan P. Ritchey,2016 For freshman sophomore 1 semester or 1 2 quarter courses covering finite mathematics for students in business economics social sciences or life sciences This package includes MyMathLab R Finite Mathematics Eleventh Edition

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