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# *Pascal Contest*

*(Grade 9)*

*Thursday, February 21, 2013*  
*(in North America and South America)*

*Friday, February 22, 2013*  
*(outside of North America and South America)*

UNIVERSITY OF  
**WATERLOO**

**WATERLOO**  
**MATHEMATICS**

**Deloitte.**

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Time: 60 minutes  
Calculators are permitted  
Instructions

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1. Do not open the Contest booklet until you are told to do so.
2. You may use rulers, compasses and paper for rough work.
3. Be sure that you understand the coding system for your response form. If you are not sure, ask your teacher to clarify it. All coding must be done with a pencil, preferably HB. Fill in circles completely.
4. On your response form, print your school name and city/town in the box in the upper right corner.
5. Be certain that you code your name, age, sex, grade, and the Contest you are writing in the response form. Only those who do so can be counted as eligible students.
6. This is a multiple-choice test. Each question is followed by five possible answers marked **A**, **B**, **C**, **D**, and **E**. Only one of these is correct. After making your choice, fill in the appropriate circle on the response form.
7. Scoring: Each correct answer is worth 5 in Part A, 6 in Part B, and 8 in Part C.  
There is no penalty for an incorrect answer.  
Each unanswered question is worth 2, to a maximum of 10 unanswered questions.
8. Diagrams are not drawn to scale. They are intended as aids only.
9. When your supervisor tells you to begin, you will have sixty minutes of working time.

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*Do not discuss the problems or solutions from this contest online for the next 48 hours.*

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*The name, grade, school and location, and score range of some top-scoring students will be published on our website, <http://www.cemc.uwaterloo.ca>. In addition, the name, grade, school and location, and score of some top-scoring students may be shared with other mathematical organizations for other recognition opportunities.*

# Pascal Math Contest 2013

**Siobhan Roberts**



### **Pascal Math Contest 2013:**

*Handbook of Intelligence* Sam Goldstein, Dana Princiotto, Jack A. Naglieri, 2014-12-08 Numerous functions cognitive skills and behaviors are associated with intelligence yet decades of research has yielded little consensus on its definition Emerging from often conflicting studies is the provocative idea that intelligence evolved as an adaptation humans needed to keep up with and survive in challenging new environments The Handbook of Intelligence addresses a broad range of issues relating to our cognitive and linguistic past It is the first full length volume to place intelligence in an evolutionary cultural framework tracing the development of the human mind exploring differences between humans and other primates and addressing human thinking and reasoning about its own intelligence and its uses The works of pioneering thinkers from Plato to Darwin Binet to Piaget Luria to Wechsler are referenced to illustrate major events in the evolution of theories of intelligence leading to the current era of multiple intelligences and special education programs In addition it examines evolutionary concepts in areas as diverse as creativity culture neurocognition emotional intelligence and assessment Featured topics include The evolution of the human brain from matter to mind Social competition and the evolution of fluid intelligence Multiple intelligences in the new age of thinking Intelligence as a malleable construct From traditional IQ to second generation intelligence tests The evolution of intelligence including implications for educational programming and policy The Handbook of Intelligence is an essential resource for researchers graduate students clinicians and professionals in developmental psychology assessment testing and evaluation language philosophy personality and social psychology sociology and developmental biology [Genius at Play](#) Siobhan Roberts, 2024-10-29 A multifaceted biography of a brilliant mathematician and iconoclast A mathematician unlike any other John Horton Conway 1937 2020 possessed a rock star s charisma a polymath s promiscuous curiosity and a sly sense of humor Conway found fame as a barefoot professor at Cambridge where he discovered the Conway groups in mathematical symmetry and the aptly named surreal numbers He also invented the cult classic Game of Life a cellular automaton that demonstrates how simplicity generates complexity and provides an analogy for mathematics and the entire universe Moving to Princeton in 1987 Conway used ropes dice pennies coat hangers and the occasional Slinky to illustrate his winning imagination and share his nerdish delights *Genius at Play* tells the story of this ambassador at large for the beauties and joys of mathematics lays bare Conway s personal and professional idiosyncrasies and offers an intimate look into the mind of one of the twentieth century s most endearing and original intellectuals

**Mathematical and Numerical Foundations of Turbulence Models and Applications** Tomás Chacón Rebollo, Roger Lewandowski, 2014-06-17 With applications to climate technology and industry the modeling and numerical simulation of turbulent flows are rich with history and modern relevance The complexity of the problems that arise in the study of turbulence requires tools from various scientific disciplines including mathematics physics engineering and computer science Authored by two experts in the area with a long history of collaboration this monograph provides a current detailed look at

several turbulence models from both the theoretical and numerical perspectives The k epsilon large eddy simulation and other models are rigorously derived and their performance is analyzed using benchmark simulations for real world turbulent flows Mathematical and Numerical Foundations of Turbulence Models and Applications is an ideal reference for students in applied mathematics and engineering as well as researchers in mathematical and numerical fluid dynamics It is also a valuable resource for advanced graduate students in fluid dynamics engineers physical oceanographers meteorologists and climatologists

**Beautiful Game Theory** Ignacio Palacios-Huerta,2016-04-19 The first book to use the world s most popular sport to test economic theories and document novel human behavior A wealth of research in recent decades has seen the economic approach to human behavior extended over many areas previously considered to belong to sociology political science law and other fields Research has also shown that economics can provide insight into many aspects of sports including soccer Beautiful Game Theory is the first book that uses soccer to test economic theories and document novel human behavior In this brilliant and entertaining book Ignacio Palacios Huerta illuminates economics through the world s most popular sport He offers unique and often startling insights into game theory and microeconomics covering topics such as mixed strategies discrimination incentives and human preferences He also looks at finance experimental economics behavioral economics and neuroeconomics Soccer provides rich data sets and environments that shed light on universal economic principles in interesting and useful ways Essential reading for students researchers and sports enthusiasts Beautiful Game Theory is the first book to show what soccer can do for economics

**The Math Myth** Andrew Hacker,2010-05-25 A New York Times bestselling author looks at mathematics education in America when it s worthwhile and when it s not Why do we inflict a full menu of mathematics algebra geometry trigonometry even calculus on all young Americans regardless of their interests or aptitudes While Andrew Hacker has been a professor of mathematics himself and extols the glories of the subject he also questions some widely held assumptions in this thought provoking and practical minded book Does advanced math really broaden our minds Is mastery of azimuths and asymptotes needed for success in most jobs Should the entire Common Core syllabus be required of every student Hacker worries that our nation s current frenzied emphasis on STEM is diverting attention from other pursuits and even subverting the spirit of the country Here he shows how mandating math for everyone prevents other talents from being developed and acts as an irrational barrier to graduation and careers He proposes alternatives including teaching facility with figures quantitative reasoning and understanding statistics Expanding upon the author s viral New York Times op ed The Math Myth is sure to spark a heated and needed national conversation not just about mathematics but about the kind of people and society we want to be Hacker s accessible arguments offer plenty to think about and should serve as a clarion call to students parents and educators who decry the one size fits all approach to schooling Publishers Weekly starred review

**Cloud Computing Security** John R. Vacca,2020-11-09 This handbook offers a comprehensive overview of cloud computing security technology and

implementation while exploring practical solutions to a wide range of cloud computing security issues As more organizations use cloud computing and cloud providers for data operations the need for proper security in these and other potentially vulnerable areas has become a global priority for organizations of all sizes Research efforts from academia and industry as conducted and reported by experts in all aspects of security related to cloud computing are gathered within one reference guide Features Covers patching and configuration vulnerabilities of a cloud server Evaluates methods for data encryption and long term storage in a cloud server Demonstrates how to verify identity using a certificate chain and how to detect inappropriate changes to data or system configurations John R Vacca is an information technology consultant and internationally known author of more than 600 articles in the areas of advanced storage computer security and aerospace technology John was also a configuration management specialist computer specialist and the computer security official CSO for NASA s space station program Freedom and the International Space Station Program from 1988 until his retirement from NASA in 1995

Proceedings Of The International Congress Of Mathematicians 2018 (Icm 2018) (In 4 Volumes) Boyan Sirakov,Paulo Ney De Souza,Marcelo Viana,2019-02-27 The Proceedings of the ICM publishes the talks by invited speakers at the conference organized by the International Mathematical Union every 4 years It covers several areas of Mathematics and it includes the Fields Medal and Nevanlinna Gauss and Leelavati Prizes and the Chern Medal laudatios

Invariant Subspaces of the Shift Operator Javad Mashreghi, Emmanuel Fricain,William Ross,2015-04-23 This volume contains the proceedings of the CRM Workshop on Invariant Subspaces of the Shift Operator held August 26 30 2013 at the Centre de Recherches Math matiques Universit de Montr al Montr al Quebec Canada The main theme of this volume is the invariant subspaces of the shift operator or its adjoint on certain function spaces in particular the Hardy space Dirichlet space and de Branges Rovnyak spaces These spaces and the action of the shift operator on them have turned out to be a precious tool in various questions in analysis such as function theory Bieberbach conjecture rigid functions Schwarz Pick inequalities operator theory invariant subspace problem composition operator and systems and control theory Of particular interest is the Dirichlet space which is one of the classical Hilbert spaces of holomorphic functions on the unit disk From many points of view the Dirichlet space is an interesting and challenging example of a function space Though much is known about it several important open problems remain most notably the characterization of its zero sets and of its shift invariant subspaces This book is co published with the Centre de Recherches Math matiques

**Computer Networks** Piotr Gaj,Andrzej Kwiecień,Michał Sawicki,2017-05-27 This book constitutes the thoroughly refereed proceedings of the 24th International Conference on Computer Networks CN 2017 held in Brun w Poland in June 2017 The 35 full papers presented were carefully reviewed and selected from 80 submissions They are dealing with the topics computer networks teleinformatics and telecommunications new technologies queueing theory innovative applications

General Studies Paper I EDITORIAL BOARD,2015-01-09 Developed by experienced professionals from reputed civil services coaching institutes and

recommended by many aspirants of Civil Services Preliminary exam General Studies Paper I contains Precise and Thorough Knowledge of Concepts and Theories essential to go through the prestigious exam Solved Examples are given to explain all the concepts for thorough learning Explanatory Notes have been provided in every chapter for better understanding of the problems asked in the exam v publishers *Badiou and the Political Condition* Marios Constantinou,2014-02-12 The essays in this volume including a new piece by Badiou himself reflect the formative traditions that shape the background of his political thought They intervene critically and evaluate the present state of Badiou s work while also breaking new ground and creating new thresholds of political thought It includes a range of established scholars and rising theorists of the Badiou effect each engaging with the critical question of how to transmit the exception politically at the intersection of contemporary anti imperial polemics and debates that strike at the heart of the post modern condition Lyotard deconstruction Derrida psychoanalysis Lacan Zizek biopolitics Hardt and Negri and pedagogy Ranciere **Genomic Designing for Biotic Stress Resistant Fruit Crops** Chittaranjan Kole,2022-03-18 This book presents deliberations on the molecular and genomic mechanisms underlying the interactions of crop plants with the biotic stresses caused by insects bacteria fungi viruses and oomycetes etc important to develop resistant crop varieties Knowledge on the advanced genetic and genomic crop improvement strategies including molecular breeding transgenics genomic assisted breeding and the recently emerging genome editing for developing resistant varieties in fruit crops is imperative for addressing FPNEE food health nutrition energy and environment security Whole genome sequencing of these crops followed by genotyping by sequencing have facilitated precise information about the genes conferring resistance useful for gene discovery allele mining and shuttle breeding which in turn opened up the scope for designing crop genomes with resistance to biotic stresses The nine chapters each dedicated to a fruit crop in this volume deliberate on different types of biotic stress agents and their effects on and interaction with the crop plants enumerate the available genetic diversity with regard to biotic stress resistance among available cultivars illuminate on the potential gene pools for utilization in interspecific gene transfer present brief on the classical genetics of stress resistance and traditional breeding for biotic stress resistance depict the success stories of genetic engineering for developing biotic stress resistant varieties discuss on molecular mapping of genes and QTLs underlying biotic stress resistance and their marker assisted introgression into elite varieties enunciate different emerging genomics aided techniques including genomic selection allele mining gene discovery and gene pyramiding for developing resistant crop varieties with higher quantity and quality of yield and also elaborate some case studies on genome editing focusing on specific genes for generating disease and insect resistant crops *Statistical Methods for Materials Science* Jeffrey P. Simmons, Lawrence F. Drummy, Charles A. Bouman, Marc De Graef, 2019-02-13 Data analytics has become an integral part of materials science This book provides the practical tools and fundamentals needed for researchers in materials science to understand how to analyze large datasets using statistical methods especially inverse methods applied to

microstructure characterization It contains valuable guidance on essential topics such as denoising and data modeling Additionally the analysis and applications section addresses compressed sensing methods stochastic models extreme estimation and approaches to pattern detection

The Austro-Libertarian Point of View Alan G. Futerma,Walter E. Block,2021-11-01 This book covers several areas of economic theory and political philosophy from the perspective of Austrian Economics and libertarianism As such it deals with Epistemology and Methodology Microeconomics Macroeconomics Labor Economics International Economics Political Philosophy Law and Public Policy all from the Austro libertarian perspective Hence this book offers an integrated view of libertarianism and Austrian economics in the light of recent debates in the areas of economic science and political philosophy Moreover it builds from the foundations of the Austrian approach epistemology and methodology while the latter material deals with its application to the individual from the microeconomic perspective which in turn allows an exploration of subjects in macroeconomics Additionally this work applies Austro libertarianism to law politics and public policy Thus it offers a unified view of the entire approach in a logical progression allowing the readers to judge this perspective in full Futerma and Block say that their book is not a manual which I suppose it is not But it is a collection of highly pertinent essays from which you can understand what is mistaken in the orthodoxy of economics law and politics The central term of art in Austrian economics is that phrase human action It is the exercise of human will not the blind bumping of one molecule against another or one organism against another as in the physical sciences Futerma and Block distinguish Austrian economics as a scientific enterprise based on liberty of the will from libertarianism as an advocacy based on policies implied by such liberty Although Austrian economics is positive and libertarianism is normative they write this book shows how both are related how each can support the other Indeed they do Deirdre N McCloskey PhD UIC Distinguished Professor of Economics and of History Emerita Professor of English Emerita Professor of Communication Emerita University of Illinois at Chicago

**Algorithms and Computation** Leizhen Cai,Siu-Wing Cheng,Tak-Wah Lam,2013-12-12 This book constitutes the refereed proceedings of the 24th International Symposium on Algorithms and Computation ISAAC 2013 held in Hong Kong China in December 2013 The 67 revised full papers presented together with 2 invited talks were carefully reviewed and selected from 177 submissions for inclusion in the book The focus of the volume in on the following topics computation geometry pattern matching computational complexity internet and social network algorithms graph theory and algorithms scheduling algorithms fixed parameter tractable algorithms algorithms and data structures algorithmic game theory approximation algorithms and network algorithms

Extensions of Dynamic Programming for Combinatorial Optimization and Data Mining Hassan AbouEisha,Talha Amin,Igor Chikalov,Shahid Hussain,Mikhail Moshkov,2018-05-22 Dynamic programming is an efficient technique for solving optimization problems It is based on breaking the initial problem down into simpler ones and solving these sub problems beginning with the simplest ones A conventional dynamic programming algorithm returns an optimal object from a given set of objects This book

develops extensions of dynamic programming enabling us to i describe the set of objects under consideration ii perform a multi stage optimization of objects relative to different criteria iii count the number of optimal objects iv find the set of Pareto optimal points for bi criteria optimization problems and v to study relationships between two criteria It considers various applications including optimization of decision trees and decision rule systems as algorithms for problem solving as ways for knowledge representation and as classifiers optimization of element partition trees for rectangular meshes which are used in finite element methods for solving PDEs and multi stage optimization for such classic combinatorial optimization problems as matrix chain multiplication binary search trees global sequence alignment and shortest paths The results presented are useful for researchers in combinatorial optimization data mining knowledge discovery machine learning and finite element methods especially those working in rough set theory test theory logical analysis of data and PDE solvers This book can be used as the basis for graduate courses

**Handbook of Homotopy Theory** Haynes Miller, 2020-01-23 The Handbook of Homotopy Theory provides a panoramic view of an active area in mathematics that is currently seeing dramatic solutions to long standing open problems and is proving itself of increasing importance across many other mathematical disciplines The origins of the subject date back to work of Henri Poincaré and Heinz Hopf in the early 20th century but it has seen enormous progress in the 21st century A highlight of this volume is an introduction to and diverse applications of the newly established foundational theory of categories The coverage is vast ranging from axiomatic to applied from foundational to computational and includes surveys of applications both geometric and algebraic The contributors are among the most active and creative researchers in the field The 22 chapters by 31 contributors are designed to address novices as well as established mathematicians interested in learning the state of the art in this field whose methods are of increasing importance in many other areas

**Creators of Mathematical and Computational Sciences** Ravi P Agarwal, Syamal K Sen, 2014-11-11 The book records the essential discoveries of mathematical and computational scientists in chronological order following the birth of ideas on the basis of prior ideas ad infinitum The authors document the winding path of mathematical scholarship throughout history and most importantly the thought process of each individual that resulted in the mastery of their subject The book implicitly addresses the nature and character of every scientist as one tries to understand their visible actions in both adverse and congenial environments The authors hope that this will enable the reader to understand their mode of thinking and perhaps even to emulate their virtues in life

**Quantum Cluster Algebra Structures on Quantum Nilpotent Algebras** K. R. Goodearl, M. T. Yakimov, 2017-04-25 All algebras in a very large axiomatically defined class of quantum nilpotent algebras are proved to possess quantum cluster algebra structures under mild conditions Furthermore it is shown that these quantum cluster algebras always equal the corresponding upper quantum cluster algebras Previous approaches to these problems for the construction of quantum cluster algebra structures on quantized coordinate rings arising in Lie theory were done on a case by case basis relying on the combinatorics of each concrete family The results of



the paper have a broad range of applications to these problems including the construction of quantum cluster algebra structures on quantum unipotent groups and quantum double Bruhat cells the Bernstein Zelevinsky conjecture and treat these problems from a unified perspective All such applications also establish equality between the constructed quantum cluster algebras and their upper counterparts

**Against the Gods** Peter L. Bernstein, 1996-09-07 A Business Week New York Times Business and USA Today Bestseller Ambitious and readable an engaging introduction to the oddsmakers whom Bernstein regards as true humanists helping to release mankind from the choke holds of superstition and fatalism The New York Times An extraordinarily entertaining and informative book The Wall Street Journal A lively panoramic book Against the Gods sets up an ambitious premise and then delivers on it Business Week Deserves to be and surely will be widely read The Economist A challenging book one that may change forever the way people think about the world Worth No one else could have written a book of such central importance with so much charm and excitement Robert Heilbroner author The Worldly Philosophers With his wonderful knowledge of the history and current manifestations of risk Peter Bernstein brings us Against the Gods Nothing like it will come out of the financial world this year or ever I speak carefully no one should miss it John Kenneth Galbraith Professor of Economics Emeritus Harvard University In this unique exploration of the role of risk in our society Peter Bernstein argues that the notion of bringing risk under control is one of the central ideas that distinguishes modern times from the distant past Against the Gods chronicles the remarkable intellectual adventure that liberated humanity from oracles and soothsayers by means of the powerful tools of risk management that are available to us today An extremely readable history of risk Barron's Fascinating this challenging volume will help you understand the uncertainties that every investor must face Money A singular achievement Times Literary Supplement There's a growing market for savants who can render the recondite intelligibly witness Stephen Jay Gould natural history Oliver Sacks disease Richard Dawkins heredity James Gleick physics Paul Krugman economics and Bernstein would mingle well in their company The Australian

Pascal Math Contest 2013: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have charmed audiences this year. Pascal Math Contest 2013 : Colleen Hoover "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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