

**DOLCIANI  
MATHEMATICAL  
EXPOSITIONS  
No. 5**



# **Great Moments in Mathematics**

**(Before 1650)**

**HOWARD EVES**

# Great Moments In Mathematics Before 1650 Dolciani Mathematical Expositions

**P.S. Bullen**



## **Great Moments In Mathematics Before 1650 Dolciani Mathematical Expositions:**

**Great Moments in Mathematics (before 1650)** Howard Eves,1980      **Great Moments in Mathematics Before 1650** Howard Eves,1983-12-31 Great Moments in Mathematics Before 1650 is the product of a series of lectures on the history of mathematics given by Howard Eves He presents here in chronological order 20 great moments in mathematics before 1650 which can be appreciated by anyone who enjoys mathematics These wonderful lectures could be used as the basis of a course on the history of mathematics but can also serve as enrichment to any mathematics course Included are lectures on the Pythagorean Theorem Euclid s Elements Archimedes on the sphere Diophantus Omar Khayyam and Fibonacci

Great Moments in Mathematics Howard Whitley Eves,1980

Great Moments in Mathematics Howard Eves,1980

**Great Moments in Mathematics (before 1650)** Howard Whitley Eves,1983 V 2 This is a companion to Great moments in mathematics before 1650 It can be appreciated by anyone with a working knowledge of beginning deferential and integral calculus Includes the birth of mathematical probability the invention of the differential calculus the discovery of non Euclidean geometry the discovery of noncommutative algebra and the resolution of the four color problem      *Great Moments in Mathematics: After 1650* Howard Eves,2020-07-31 What a splendid addition this is to the Dolciani Mathematical Exposition series This second set of lectures on great moments in mathematics after 1650 is a fascinating collection of pivotal points in the historical development of mathematics The four lectures devoted to the liberation of geometry and algebra are of particular interest The lectures should be required reading for all teachers of mathematics Herbert Fremont The Mathematics Teacher Eves is never less than tantalizing and usually inspiring each great moment has detailed exercises following it as these have been carefully chosen to illustrate the depth of the ideas in question C W Kilmister The London Times Higher Education Supplement As is usual with Eves work the books are well written and entertaining They give an historical background to many of the best known mathematical results and in addition provide interesting pieces of information about the mathematicians involved Eves includes relevant exercises at the end of each chapter These are a good source of different interesting problems and when combined with the material in the chapter could form the basis for a mathematical project Eves book provides an interesting well written and enjoyable account You won t be disappointed David Parrott The Australian Mathematics Teacher      **Great Moment in Mathematics** American Mathematical Society,

Mathematical Delights Ross Honsberger,2019-06-25 Mathematical Delights is a collection of 90 short elementary gems from algebra geometry combinatorics and number theory Ross Honsberger presents us with some surprising results brilliant ideas and beautiful arguments in mathematics written in his wonderfully lucid style The book is a mathematical entertainment to be read at a leisurely pace High school mathematics should equip the reader to handle the problems presented in the book The topics are entirely independent and can be read in any order A useful set of indices helps the reader locate topics in the text      **Mathematical Diamonds** Ross Honsberger,2003-12-31 Ross Honsberger has done it

again He has brought together another wonderful collection of elementary mathematical problems and their solutions abounding in striking surprises and brilliant ideas that reflect the beauty of mathematics Many of these problems come from mathematical journals Others come from various mathematical competitions such as the Tournament of the Towns the Balkan Olympiad the American Invitational Mathematics Exam and the Putnam exam And of course there is a problem suggested by Paul Erdos This book is ideal for students teachers and anyone interested in recreational mathematics

*Counting on Frameworks* Jack Graver, 2001-09-06 Consider a scaffolding that is constructed by bolting together rods and beams Is it strong enough to support the workers and their equipment This is the basic problem in rigidity theory an area of interest to a wide range of people including those studying graph theory or mathematical modelling [Handbook of Means and Their Inequalities](#) P.S. Bullen, 2013-04-17 There seems to be two types of books on inequalities On the one hand there are treatises that attempt to cover all or most aspects of the subject and where an attempt is made to give all results in their best possible form together with either a full proof or a sketch of the proof together with references to where a full proof can be found Such books aimed at the professional pure and applied mathematician are rare The first such that brought some order to this untidy field is the classical *Inequalities* of Hardy Littlewood rather it consisted of the total knowledge of three front rank mathematicians in a field in which each had made fundamental contributions Extensive as this combined knowledge was there were inevitably certain lacunae some important results such as Steffensen's inequality were not mentioned at all the works of certain schools of mathematicians were omitted and many important ideas were not developed appearing as exercises at the ends of chapters The later book *Inequalities* by Beckenbach Bellman published in 1961 repairs many of these omissions However this last book is far from a complete coverage of the field either in depth or scope **More**

**Mathematical Morsels** Ross Honsberger, 2020-07-29 Another collection of problems from best selling author Ross Honsberger He presents a selection drawn from probability number theory combinatorics and geometry and provides ingenious solutions and or intriguing results All of the problems presented in the volume are accessible to anyone with an interest in mathematics **A Mathematical Space Odyssey** Claudi Alsina, Roger B. Nelsen, 2015-12-31 Solid geometry is the traditional name for what we call today the geometry of three dimensional Euclidean space This book presents techniques for proving a variety of geometric results in three dimensions Special attention is given to prisms pyramids platonic solids cones cylinders and spheres as well as many new and classical results A chapter is devoted to each of the following basic techniques for exploring space and proving theorems enumeration representation dissection plane sections intersection iteration motion projection and folding and unfolding The book includes a selection of Challenges for each chapter with solutions references and a complete index The text is aimed at secondary school and college and university teachers as an introduction to solid geometry as a supplement in problem solving sessions as enrichment material in a course on proofs and mathematical reasoning or in a mathematics course for liberal arts students [Mathematical Chestnuts from](#)

around the World Ross Honsberger, 2001-01-01 A collection of miscellaneous gems from elementary mathematics ranging from the latest International Olympiads all the way back to Euclid Each one casts light on a striking result or a brilliant device and any reader with only a modest mathematical background will appreciate the ingenious solutions that are also presented

Which Way Did the Bicycle Go?: And Other Intriguing Mathematical Mysteries Joseph D. E. Konhauser, Dan Velleman, Stan Wagon, 1996-12-31 MAA Press An Imprint of the American Mathematical Society This collection will give students high school or beyond teachers and university professors a chance to experience the pleasure of wrestling with some beautiful problems of elementary mathematics Readers can compare their sleuthing talents with those of Sherlock Holmes who made a bad mistake regarding the first problem in the collection Determine the direction of travel of a bicycle that has left its tracks in a patch of mud Which Way did the Bicycle Go contains a variety of other unusual and interesting problems in geometry algebra combinatorics and number theory For example if a pizza is sliced into eight 45 degree wedges meeting at a point other than the center of the pizza and two people eat alternate wedges will they get equal amounts of pizza Or What is the rightmost nonzero digit of the product  $1\ 2\ 3\ 1\ 000\ 000\ 1\ 2\ 3\ 1\ 000\ 000$  Or Is a manufacturer's claim that a certain unusual combination lock allows thousands of combinations justified Complete solutions to the 191 problems are included along with problem variations and topics for investigation

**Creativity in Mathematics and the Education of Gifted Students** Roza Leikin, Abraham Berman, Boris Koichu, 2009-01-01 This book breaks through in the field of mathematical creativity and giftedness It suggests directions for closing the gap between research in the field of mathematics education and research in the field of creativity and giftedness It also outlines a research agenda for further research and development in the field The book consists of a balanced set of chapters by mathematicians mathematics educators educational psychologists and educational researchers The authors of different chapters accept dynamic conception of creativity and giftedness The book provides analysis of cognitive affective and social factors associated with the development of creativity in all students and with the realisation of mathematical talent in gifted students It contains theoretical essays research reports historical overviews recommendations for curricular design and insights about promotion of mathematical creativity and giftedness at different levels The readers will find many examples of challenging mathematical problems intended at developing or examining mathematical creativity and giftedness as well as ideas for direct implementation in school and tertiary mathematics courses They will also find theoretical models that can be used in researching students creativity and giftedness Research reports enlighten relationships between excellence in mathematics and creativity and examine different aspects of inquiry based environment as a powerful way for developing mathematical creativity in school students The readers can also learn about characteristics of creativity of research mathematicians

Map Coloring, Polyhedra and the FourColor Problem David W. Barnette, 1984-03-01 *Great Moments in Mathematics* Howard Whitley Eves, 1983 The INGenIOuS Project A. John Bailer, 2014 **Charming Proofs** Claudi Alsina, Roger B.

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