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Graduate students and mathematics educators interested in K–12 teaching, school curriculum teachers, and teachers of both pre-service and in-service educators.

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452 pages. 1 Review. This book
provides teachers of all levels with a
great deal of valuable material to help
them introduce discrete mathematics
into their classrooms.

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The conference, entitled "Discrete Mathematics in the Schools: How Do We Make an Impact?" was attended by 33 people, from high schools and colleges, who had played leadership roles in introducing discrete mathematics at precollege levels. 1

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The conference was sponsored by the
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Discrete math shows up on most middle and high school math contests. Prominent math competitions such as MATHCOUNTS (at the middle school

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Schools level) and the American Mathematics Competitions (at the high school level) feature discrete math questions as a significant portion of their contests. On harder high school contests, such as the AIME, the quantity of discrete math is even larger. Students that do not have a discrete math background will

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be at a significant disadvantage in
these contests.

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Discrete Mathematics Tutorial.

Discrete Mathematics is a branch of mathematics involving discrete elements that uses algebra and

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~~Schools~~ arithmetic. It is increasingly being applied in the practical fields of mathematics and computer science. It is a very good tool for improving reasoning and problem-solving capabilities.

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Tutorialspoint

Discrete mathematics is the study of mathematical structures that are fundamentally discrete rather than continuous. In contrast to real numbers that have the property of varying "smoothly", the objects studied in discrete mathematics – such as

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integers, graphs, and statements in logic – do not vary smoothly in this way, but have distinct, separated values. Discrete mathematics therefore excludes topics in "continuous mathematics" such as calculus or Euclidean geometry. Discrete objects ...

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~~Discrete mathematics – Wikipedia~~

Teachers have found that discrete mathematics offers a way of motivating unmotivated students while challenging talented students at the same time. Because many discrete math problems are simply stated and

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~~Schools~~ have few mathematical prerequisites, they can be easily be introduced at the middle school grade level. EXAMPLE:
Linear Programming

~~What Is Discrete Mathematics?~~

One main article provides a comprehensive and detailed view of

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discrete mathematics for K--12.

Another surveys the resources that are available for teachers. School and district curriculum leaders will find material that addresses how discrete mathematics can be introduced into their curricula.

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One main article provides a comprehensive and detailed view of discrete mathematics for K-12.

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Even though contemporary biology and mathematics are inextricably linked, high school biology and mathematics courses have traditionally

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been taught in isolation. But this is beginning to change. This volume presents papers related to the integration of biology and mathematics in high school classes.

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Schools This volume is a collection of articles written by experienced primary, secondary, and collegiate educators. The book explains why discrete mathematics should be taught in K-12 classrooms and offers practical guidance on how to do so. In this book, teachers at all levels will find a

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great deal of valuable material to help them introduce discrete mathematics in their classrooms. One main article provides a comprehensive and detailed view of discrete mathematics for K-12. Another surveys the resources that are available for teachers. School and district

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Schools curriculum leaders will find material that addresses how discrete mathematics can be introduced into their curricula. College faculty members will find ideas and topics that can be incorporated into a variety of courses. It features: classroom activities and an annotated list of

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Schools; authors who are directors of innovative programs and who are well known for their work; a description of discrete mathematics providing the opportunity for a fresh start for students who have been previously unsuccessful in mathematics; discussion on discrete mathematics as

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it is used to achieve the goals of the current effort to improve mathematics education; guidance on topics, resources and teaching; and a valuable guide for both pre-service and in-service professional development.

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mathematics curriculum initiatives in several countries, and presents ongoing research, especially in the areas of combinatorial reasoning and the affective dimension of learning discrete mathematics. Discrete mathematics is the math of our time.' So declared the immediate past

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president of the National Council of Teachers of Mathematics, John Dossey, in 1991. Nearly 30 years later that statement is still true, although the news has not yet fully reached school mathematics curricula. Nevertheless, much valuable work has been done, and continues to be done. This volume

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reports on some of that work. It provides a glimpse of the state of the art in learning and teaching discrete mathematics around the world, and it makes the case once again that discrete mathematics is indeed mathematics for our time, even more so today in our digital age, and it

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Schools should be included in the core curricula of all countries for all students.

This book provides teachers of all levels with a great deal of valuable material to help them introduce discrete mathematics into their

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Resources for Teaching Discrete Mathematics presents nineteen classroom tested projects complete with student handouts, solutions, and notes to the instructor. Topics range from a first day activity that motivates

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proofs to applications of discrete mathematics to chemistry, biology, and data storage. Other projects provide: supplementary material on classic topics such as the towers of Hanoi and the Josephus problem, how to use a calculator to explore various course topics, how to employ

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Cuisenaire rods to examine the Fibonacci numbers and other sequences, and how you can use plastic pipes to create a geodesic dome. The book contains eleven history modules that allow students to explore topics in their original context. Sources range from eleventh century

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School figures that prompted Leibniz to write on binary arithmetic, to a 1959 article on automata theory. Excerpts include: Pascal's "Treatise on the Arithmetical Triangle," Hamilton's "Account of the Icosian Game," and Cantor's (translated) "Contributions to the Founding of the Theory of

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Transfinite Numbers." Five articles complete the book. Three address extensions of standard discrete mathematics content: an exploration of historical counting problems with attention to discovering formulas, a discussion of how computers store graphs, and a survey connecting the

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Schools principle of inclusion-exclusion to Möbius inversion. Finally, there are two articles on pedagogy specifically related to discrete mathematics courses: a summary of adapting a group discovery method to larger classes, and a discussion of using logic in encouraging students to

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construct proofs.

(Originally Published by Houghton Mifflin Company, 2004) There is a national consensus that teachers who teach middle-grades and elementary mathematics need deeper and broader exposure to mathematics in both their

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Solve undergraduate and in their graduate studies. The Mathematics Education of Teachers, published by The Conference Board on the Mathematical Sciences, recommends 21 semester hours of mathematics for prospective teachers of middle-grades mathematics. In several states pre-

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Service teachers preparing to teach middle-grades mathematics and pre-service teachers preparing to teach elementary school must complete 6- 9 semester hours of mathematics content at the junior-senior level. Graduate schools across the nation have developed special programs for

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Schools educators who specialize in teaching mathematics to elementary school children and to middle grades students. However, there is a paucity of text materials to support those efforts at junior-senior level and graduate level courses. Faculty members must choose to teach yet

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Another course out of one of the “Mathematics for Teachers” texts that have formed the basis of the curriculum for the last two decades. These texts tend to treat a very limited set of topics on a somewhat superficial level. Alternatively, faculty members can use mathematics textbooks written

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Schools primarily for students majoring in mathematics or the sciences. Neither the topic choice nor the pedagogical style of these texts is optimal for pre-service and in-service teachers of middle grades and elementary mathematics. Discrete Mathematics for Teachers is a text designed to fill

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Schools. The topic is right. Discrete mathematics provides a rich and varied source of problems for exploration and communication, expands knowledge of mathematics in directions related to elementary and middle school curricula, and is easily presented using our best

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Understanding of the ways that mathematics is learned and taught. The presentation is right. In the spirit of NCTM's Principles and Standards for School Mathematics, topics are presented with careful attention to the best traditions of problem solving, reasoning and proof, communication,

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connections with other disciplines and other areas of mathematics, and varied modes of representation.

Note: This is the 3rd edition. If you need the 2nd edition for a course you are taking, it can be found as a "other format" on amazon, or by searching its

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isbn: 1534970746 This gentle introduction to discrete mathematics is written for first and second year math majors, especially those who intend to teach. The text began as a set of lecture notes for the discrete mathematics course at the University of Northern Colorado. This course

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Schools serves both as an introduction to topics in discrete math and as the "introduction to proof" course for math majors. The course is usually taught with a large amount of student inquiry, and this text is written to help facilitate this. Four main topics are covered: counting, sequences, logic, and graph

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School. Along the way proofs are introduced, including proofs by contradiction, proofs by induction, and combinatorial proofs. The book contains over 470 exercises, including 275 with solutions and over 100 with hints. There are also Investigate! activities throughout the text to support

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Active, inquiry based learning. While there are many fine discrete math textbooks available, this text has the following advantages: It is written to be used in an inquiry rich course. It is written to be used in a course for future math teachers. It is open source, with low cost print editions and

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free electronic editions. This third edition brings improved exposition, a new section on trees, and a bunch of new and improved exercises. For a complete list of changes, and to view the free electronic version of the text, visit the book's website at discrete.openmathbooks.org

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This book offers ways of presenting and developing three topics emphasised in Principles and Standards for School Mathematics: counting, vertex-edge graphs and iterative and recursive processes.

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Discrete Mathematics with Ducks,
Second Edition is a gentle introduction
for students who find the proofs and
abstractions of mathematics

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Challenging. At the same time, it provides stimulating material that instructors can use for more advanced students. The first edition was widely well received, with its whimsical writing style and numerous exercises and materials that engaged students at all levels. The new, expanded edition

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Schools continues to facilitate effective and active learning. It is designed to help students learn about discrete mathematics through problem-based activities. These are created to inspire students to understand mathematics by actively practicing and doing, which helps students better retain what

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they've learned. As such, each chapter contains a mixture of discovery-based activities, projects, expository text, in-class exercises, and homework problems. The author's lively and friendly writing style is appealing to both instructors and students alike and encourages readers

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