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Big Data Analytics for Internet of Things What Mathematics Do Students Know and How is that Knowledge Changing? New Trends in Fuzzy Set Theory and Related Items The Economic Philosophy of the Internet of Things Internet of Things (IoT) Passing the Alabama QualityCore in Algebra 2 The Math Myth Intensified Algebra I Student Activity Book Math with Bad Drawings Topological (in) Hegel Algebra the Beautiful Big Data Management and the Internet of Things for Improved Health Systems Prealgebra & Geometry Intensified Algebra I Student Activity Book Information Security Theory and Practice. Securing the Internet of Things The Best Writing on Mathematics 2015 Advances in Algebra and Analysis Technology Adoption and Social Issues: Concepts, Methodologies, Tools, and Applications Coordination Models and Languages A Conversational Introduction to Algebraic Number Theory: Arithmetic Beyond Z Practical LaTeX The Learning and Teaching of Algebra Essential Algebra Basic Math and Pre-Algebra Encountering Algebra Mind and Matter Homotopy Type Theory: Univalent Foundations of Mathematics Learning Approaches in Signal Processing Computer-Assisted Language Learning: Concepts, Methodologies, Tools, and Applications Visual-spatial Ability in STEM Education Algebra Sub: My Years Underground in America's Schools Meeting the Challenges to Measurement in an Era of Accountability Algebra I: 1,001 Practice Problems For Dummies (+ Free Online Practice) Primary Mathematics for Trainee Teachers Algebra Kindergarten Transition and Readiness The Internet of Materials Real, Mechanical, Experimental Kiss My Math

Computer-Assisted Language Learning: Concepts, Methodologies, Tools, and Applications Jan 06 2022 In a diverse society, the ability to cross communication barriers is critical to the success of any individual personally, professionally, and academically. With the constant acceleration of course programs and technology, educators are continually being challenged to develop and implement creative methods for engaging English-speaking and non-English-speaking learners. Computer-Assisted Language Learning: Concepts, Methodologies, Tools, and Applications is a vital reference source that examines the relationship between language education and technology and the potential for curriculum enhancements through the use of mobile technologies, flipped instruction, and language-learning software. This multi-volume book is geared toward educators, researchers, academics, linguists, and upper-level students seeking relevant research on the improvement of language education through the use of technology.

The Economic Philosophy of the Internet of Things Feb 29 2024 To properly understand the nature of the digital economy we need to investigate the phenomenon of a "ubiquitous computing system" (UCS). As defined by Robin Milner, this notion implies the following

characteristics: (i) it will continually make decisions hitherto made by us; (ii) it will be vast, maybe 100 times today's systems; (iii) it must continually adapt, on-line, to new requirements; and, (iv) individual UCSs will interact with one another. This book argues that neoclassical approaches to modelling economic behaviour based on optimal control by "representative-agents" are ill-suited to a world typified by concurrency, decentralized control, and interaction. To this end, it argues for the development of new, process-based approaches to analysis, modelling, and simulation. The book provides the context—both philosophical and mathematical—for the construction and application of new, rigorous, and meaningful analytical tools. In terms of social theory, it adopts a Post-Cognitivist approach, the elements of which include the nature philosophy of Schelling, Marx's critique of political economy, Peircean Pragmatism, Whitehead's process philosophy, and Merleau-Ponty's phenomenology of the flesh, along with cognitive scientific notions of embodied cognition and neural Darwinism, as well as more questionable notions of artificial intelligence that are encompassed by the rubric of "perception-and-action-without-intelligence".
Information Security Theory and Practice. Securing the Internet of Things Mar 20 2023 This volume constitutes the refereed proceedings of the 8th IFIP WG 11.2 International Workshop on Information Security Theory and Practices, WISTP 2014, held in Heraklion, Crete, Greece, in June/July 2014. The 8 revised full papers and 6 short papers presented together with 2 keynote talks were carefully reviewed and selected from 33 submissions. The papers have been organized in topical sections on cryptography and cryptanalysis, smart cards and embedded devices, and privacy.
Intensified Algebra I Student Activity Book Apr 20 2023
Passing the Alabama QualityCore in Algebra 2 Dec 29 2023
Real, Mechanical, Experimental Feb 24 2021 This original work contains the first detailed account of the natural philosophy of Robert Hooke (1635-1703), leading figure of the early Royal Society. From celestial mechanics to microscopy, from optics to geology and biology, Hooke's contributions to the Scientific Revolution proved decisive. Focusing separately on partial aspects of Hooke's works, scholars have hitherto failed to see the unifying idea of the natural philosophy underlying them. Some of his unpublished papers have passed almost unnoticed. Hooke pursued the foundation of a real, mechanical and experimental philosophy, and this book is an attempt to reconstruct it. The book includes a selection of Hooke's unpublished papers. Readers will discover a study of the new science through the works of one of the most known protagonists. Challenging the current views on the scientific life of restoration England, this book sheds new light on the circulation of Baconian ideals and the mechanical philosophy in the early Royal Society. This book is a must-read to anybody interested in Hooke, early modern science or Restoration history.
Kindergarten Transition and Readiness Apr 28 2021 This book presents a comprehensive overview of children's transitions to kindergarten as well as proven strategies that promote their readiness. It presents theories and research to help understand children's development during the early childhood years. It describes evidence-based interventions that support children in developmental areas essential to school success, including cognitive, social-emotional, and self-regulatory skills. Chapters review prekindergarten readiness programs designed to promote continuity of learning in anticipation of the higher grades and discuss transitional concerns of special populations, such as non-native speakers, children with visual and other disabilities, and children with common temperamental issues. The volume concludes with examples of larger-scale systemic approaches to supporting children's development during the transition to kindergarten, describing a coherent system of early

childhood education that promotes long-term development. Featured topics include: Consistency in children's classroom experiences and implications for early childhood development. Changes in school readiness in U.S. kindergarteners. Effective transitions to kindergarten for low-income children. The transition into kindergarten for English language learners. The role of close teacher-child relationships during the transition into kindergarten. Children's temperament and its effect on their kindergarten transitions. Kindergarten Transition and Readiness is a must-have resource for researchers, clinicians and related professionals, and graduate students in child and school psychology, educational psychology, social work, special education, and early childhood education.

Primary Mathematics for Trainee Teachers Jun 30 2021 With chapter sequencing following the new Curriculum, this book supports trainee Primary school teachers to make use of the opportunities presented in the new National Curriculum for effective and engaging Mathematics teaching. Covering all of the areas of the new Curriculum for primary mathematics and offering insight into effective teaching, this book helps students connect what they need to teach with how it can be taught. Exploring opportunities in the new curriculum for creative and imaginative teaching, it shows readers how to capitalize on opportunities to develop children's reasoning and problem solving skills. It explores how to make links between mathematics and children's lived experiences to enhance their learning and enables trainees to develop an ability to plan with discernment, making the most of existing thinking and research as well as building confidence in adapting and customizing ideas. Includes the full National Curriculum Programme of Study for Maths, key stages 1 and 2 as a useful reference for trainee teachers. Other books in this series include: Primary Science for Trainee Teachers and Primary English for Trainee Teachers

Prealgebra & Geometry May 22 2023 Prepare students for high school math by playing with positive and negative integers, number properties, mixed operations, algebraic functions, coordinate geometry, and more. Prealgebra & Geometry features 41 kid-tested games, offering a variety of challenges for students in 4–9th grades and beyond. A true understanding of mathematics requires more than the ability to memorize procedures. This book helps your children learn to think mathematically, giving them a strong foundation for future learning. Chapters include: * Number Properties: Master factors, multiples, prime numbers, and logical deduction. * Integers: Explore the workings of positive and negative numbers. * Operations and Functions: Stretch your mental muscles with games that require algebraic thinking. * Geometry: Play around with area, perimeter, coordinate graphing, and more. Math games pump up mental muscle, reduce the fear of failure, and generate a positive attitude toward mathematics. Through playful interaction, games strengthen a child's intuitive understanding of numbers and build problem-solving strategies. Mastering a math game can be hard work, but kids do it willingly because it is fun. So what are you waiting for? Clear off a table, grab a deck of cards, and let's play some math!

New Trends in Fuzzy Set Theory and Related Items Apr 01 2024 This book is a printed edition of the Special Issue "New Trends in Fuzzy Set Theory and Related Items" that was published in Axioms

Basic Math and Pre-Algebra Jun 10 2022 Idiot's Guides: Basic Math and Pre-Algebra helps readers get up to speed and relearn the primary concepts of mathematics, geometry, and pre-algebra. Content includes basic math operations (addition, subtraction, multiplication, division); word problems; factors and multiples; fractions, decimals, and percents; weights and measures; graphs; statistics and probability; and algebra and geometry basics. A practice problems section is also included to help reinforce the math concepts. This book is ideal for anyone needing a refresher in order to pass entrance exams, such as the GED®, ASVAB, and Praxis®.

Mind and Matter Apr 08 2022 A New York Times bestseller John Urschel, mathematician and former offensive lineman for the Baltimore Ravens, tells the story of a life balanced between two passions For John Urschel, what began as an insatiable appetite for puzzles as a child developed into mastery of the elegant systems and rules of mathematics. By the time he was thirteen, Urschel was auditing a college-level calculus course. But when he joined his high school football team, a new interest began to eclipse the thrill he felt in the classroom. Football challenged Urschel in an entirely different way, and he became addicted to the physical contact of the sport. After he accepted a scholarship to play at Penn State, his love of math was rekindled. As a Nittany Lion, he refused to sacrifice one passion for the other. Against the odds, Urschel found a way to manage his double life as a scholar and an athlete. While he was an offensive lineman for the Baltimore Ravens, he simultaneously pursued his PhD in mathematics at MIT. Weaving together two separate narratives, Urschel relives for us the most pivotal moments of his bifurcated life. He explains why, after Penn State was sanctioned for the acts of former coach Jerry Sandusky, he declined offers from prestigious universities and refused to abandon his team. He describes his parents' different influences and their profound effect on him, and he opens up about the correlation between football and CTE and the risks he took for the game he loves. Equally at home discussing Georg Cantor's work on infinities and Bill Belichick's playbook, Urschel reveals how each challenge—whether on the field or in the classroom—has brought him closer to understanding the two different halves of his own life, and how reason and emotion, the mind and the body, are always working together. "So often, people want to divide the world into two," he observes. "Matter and energy. Wave and particle. Athlete and mathematician. Why can't something (or someone) be both?"

The Internet of Materials Mar 27 2021 State-of-the-art, flat structures called metasurfaces can filter and steer light and sound, render an object completely invisible to electromagnetic waves, and much more. They can deliver automation, remote operation, and advanced performance to a wide variety of existing systems, with applications in communications, medical imaging, sensing, and security. However, for non-specialists, individual metasurfaces are currently restricted to limited reusability and accessibility. This book brings together various scientific disciplines with the aim of outlining a programmable 'plug-and-play' metasurface. The book focuses on a recently proposed platform – known as the HyperSurface – that provides many electromagnetic functions of metasurfaces in a single structure, which can be controlled and reconfigured by software. This revolutionary approach paves the way for new opportunities in wireless communications and programmable wireless environments: HyperSurfaces could link networks with objects and physical environments and create smarter systems that are far more responsive to user demands. Walls that absorb radiation or block digital eavesdropping, and wireless, long-distance charging of devices are among the many possibilities. The book aspires to provide the foundational knowledge for creating an Internet of Materials, enabling smart environments at any scale – from indoor wireless communications to medical imaging equipment. Although the set of disciplines involved covers a considerable span, we hope that the material will benefit experts and students alike.

Practical LaTeX Sep 13 2022 Practical LaTeX covers the material that is needed for everyday LaTeX documents. This accessible manual is friendly, easy to read, and is designed to be as portable as LaTeX itself. A short chapter, Mission Impossible, introduces LaTeX documents and presentations. Read these 30 pages; you then should be able to compose your own work in LaTeX. The remainder of the book delves deeper into the topics outlined in Mission Impossible while avoiding technical subjects. Chapters on presentations and illustrations are a highlight, as is the introduction of LaTeX on an iPad. Students, faculty, and professionals in the worlds of mathematics and technology will

benefit greatly from this new, practical introduction to LaTeX. George Grätzer, author of More Math into LaTeX (now in its 4th edition) and First Steps in LaTeX, has been a LaTeX guru for over a quarter of century. From the reviews of More Math into LaTeX: ``There are several LaTeX guides, but this one wins hands down for the elegance of its approach and breadth of coverage." —Amazon.com, Best of 2000, Editors Choice ``A very helpful and useful tool for all scientists and engineers." —Review of Astronomical Tools ``A novice reader will be able to learn the most essential features of LaTeX sufficient to begin typesetting papers within a few hours of time...An experienced TeX user, on the other hand, will find a systematic and detailed discussion of all LaTeX features, supporting software, and many other advanced technical issues." —Reports on Mathematical Physics

A Conversational Introduction to Algebraic Number Theory: Arithmetic Beyond Z Oct 15 2022 Gauss famously referred to mathematics as the “queen of the sciences” and to number theory as the “queen of mathematics”. This book is an introduction to algebraic number theory, meaning the study of arithmetic in finite extensions of the rational number field Q . Originating in the work of Gauss, the foundations of modern algebraic number theory are due to Dirichlet, Dedekind, Kronecker, Kummer, and others. This book lays out basic results, including the three “fundamental theorems”: unique factorization of ideals, finiteness of the class number, and Dirichlet's unit theorem. While these theorems are by now quite classical, both the text and the exercises allude frequently to more recent developments. In addition to traversing the main highways, the book reveals some remarkable vistas by exploring scenic side roads. Several topics appear that are not present in the usual introductory texts. One example is the inclusion of an extensive discussion of the theory of elasticity, which provides a precise way of measuring the failure of unique factorization. The book is based on the author's notes from a course delivered at the University of Georgia; pains have been taken to preserve the conversational style of the original lectures.

Internet of Things (IoT) Jan 30 2024 This books objective is to explore the concepts and applications related to Internet of Things with the vision to identify and address existing challenges. Additionally, the book provides future research directions in this domain, and explores the different applications of IoT and its associated technologies. Studies investigate applications for crowd sensing and sourcing, as well as smart applications to healthcare solutions, agriculture and intelligent disaster management. This book will appeal to students, practitioners, industry professionals and researchers working in the field of IoT and its integration with other technologies to develop comprehensive solutions to real-life problems

Intensified Algebra I Student Activity Book Oct 27 2023

Advances in Algebra and Analysis Jan 18 2023 This volume is the first of two containing selected papers from the International Conference on Advances in Mathematical Sciences, Vellore, India, December 2017 - Volume I. This meeting brought together researchers from around the world to share their work, with the aim of promoting collaboration as a means of solving various problems in modern science and engineering. The authors of each chapter present a research problem, techniques suitable for solving it, and a discussion of the results obtained. These volumes will be of interest to both theoretical- and application-oriented individuals in academia and industry. Papers in Volume I are dedicated to active and open areas of research in algebra, analysis, operations research, and statistics, and those of Volume II consider differential equations, fluid mechanics, and graph theory.

The Best Writing on Mathematics 2015 Feb 16 2023 The year's finest writing on mathematics from around the world This annual anthology

brings together the year's finest mathematics writing from around the world. Featuring promising new voices alongside some of the foremost names in the field, The Best Writing on Mathematics 2015 makes available to a wide audience many articles not easily found anywhere else—and you don't need to be a mathematician to enjoy them. These writings offer surprising insights into the nature, meaning, and practice of mathematics today. They delve into the history, philosophy, teaching, and everyday occurrences of math, and take readers behind the scenes of today's hottest mathematical debates. Here David Hand explains why we should actually expect unlikely coincidences to happen; Arthur Benjamin and Ethan Brown unveil techniques for improvising custom-made magic number squares; Dana Mackenzie describes how mathematicians are making essential contributions to the development of synthetic biology; Steven Strogatz tells us why it's worth writing about math for people who are alienated from it; Lisa Rougetet traces the earliest written descriptions of Nim, a popular game of mathematical strategy; Scott Aaronson looks at the unexpected implications of testing numbers for randomness; and much, much more. In addition to presenting the year's most memorable writings on mathematics, this must-have anthology includes a bibliography of other notable writings and an introduction by the editor, Mircea Pitici. This book belongs on the shelf of anyone interested in where math has taken us—and where it is headed.

The Learning and Teaching of Algebra Aug 13 2022 IMPACT (Interweaving Mathematics Pedagogy and Content for Teaching) is an exciting new series of texts for teacher education which aims to advance the learning and teaching of mathematics by integrating mathematics content with the broader research and theoretical base of mathematics education. The Learning and Teaching of Algebra provides a pedagogical framework for the teaching and learning of algebra grounded in theory and research. Areas covered include: • Algebra: Setting the Scene • Some Lessons From History • Seeing Algebra Through the Eyes of a Learner • Emphases in Algebra Teaching • Algebra Education in the Digital Era This guide will be essential reading for trainee and qualified teachers of mathematics, graduate students, curriculum developers, researchers and all those who are interested in the "problématique" of teaching and learning algebra. It allows you to get involved in the wealth of knowledge that teachers can draw upon to assist learners, helping you gain the insights that mastering algebra provides.

Algebra I: 1,001 Practice Problems For Dummies (+ Free Online Practice) Aug 01 2021 1,001 Algebra I Practice Problems For Dummies Practice makes perfect—and helps deepen your understanding of algebra by solving problems 1,001 Algebra I Practice Problems For Dummies, with free access to online practice problems, takes you beyond the instruction and guidance offered in Algebra I For Dummies, giving you 1,001 opportunities to practice solving problems from the major topics in algebra. You start with some basic operations, move on to algebraic properties, polynomials, and quadratic equations, and finish up with graphing. Every practice question includes not only a solution but a step-by-step explanation. From the book, go online and find: One year free subscription to all 1,001 practice problems On-the-go access any way you want it—from your computer, smart phone, or tablet Multiple choice questions on all you math course topics Personalized reports that track your progress and help show you where you need to study the most Customized practice sets for self-directed study Practice problems categorized as easy, medium, or hard Whether you're studying algebra at the high school or college level, the practice problems in 1,001 Algebra I Practice Problems For Dummies give you a chance to practice and reinforce the skill s you learn in the classroom and help you refine your understanding of algebra. Note to readers: 1,001 Algebra I Practice Problems For Dummies, which only includes problems to solve, is a great companion to Algebra I For Dummies, 2nd Edition which offers complete instruction on all topics in a typical Algebra I

course.

Algebra Nov 03 2021 This book is about algebra. This is a very old science and its gems have lost their charm for us through everyday use. We have tried in this book to refresh them for you. The main part of the book is made up of problems. The best way to deal with them is: Solve the problem by yourself - compare your solution with the solution in the book (if it exists) - go to the next problem. However, if you have difficulties solving a problem (and some of them are quite difficult), you may read the hint or start to read the solution. If there is no solution in the book for some problem, you may skip it (it is not heavily used in the sequel) and return to it later. The book is divided into sections devoted to different topics. Some of them are very short, others are rather long. Of course, you know arithmetic pretty well. However, we shall go through it once more, starting with easy things. 2 Exchange of terms in addition Let's add 3 and 5: 3+5=8. And now change the order: 5+3=8. We get the same result. Adding three apples to five apples is the same as adding five apples to three - apples do not disappear and we get eight of them in both cases. 3 Exchange of terms in multiplication Multiplication has a similar property. But let us first agree on notation.

Big Data Analytics for Internet of Things Jun 03 2024 BIG DATA ANALYTICS FOR INTERNET OF THINGS Discover the latest developments in IoT Big Data with a new resource from established and emerging leaders in the field Big Data Analytics for Internet of Things delivers a comprehensive overview of all aspects of big data analytics in Internet of Things (IoT) systems. The book includes discussions of the enabling technologies of IoT data analytics, types of IoT data analytics, challenges in IoT data analytics, demand for IoT data analytics, computing platforms, analytical tools, privacy, and security. The distinguished editors have included resources that address key techniques in the analysis of IoT data. The book demonstrates how to select the appropriate techniques to unearth valuable insights from IoT data and offers novel designs for IoT systems. With an abiding focus on practical strategies with concrete applications for data analysts and IoT professionals, Big Data Analytics for Internet of Things also offers readers: A thorough introduction to the Internet of Things, including IoT architectures, enabling technologies, and applications An exploration of the intersection between the Internet of Things and Big Data, including IoT as a source of Big Data, the unique characteristics of IoT data, etc. A discussion of the IoT data analytics, including the data analytical requirements of IoT data and the types of IoT analytics, including predictive, descriptive, and prescriptive analytics A treatment of machine learning techniques for IoT data analytics Perfect for professionals, industry practitioners, and researchers engaged in big data analytics related to IoT systems, Big Data Analytics for Internet of Things will also earn a place in the libraries of IoT designers and manufacturers interested in facilitating the efficient implementation of data analytics strategies.

Coordination Models and Languages Nov 15 2022 This book constitutes the proceedings of the 18th InternationalConference on Coordination Models and Languages, COORDINATION 2016, heldin Heraklion, Crete, Greece, in June 2016, as part of the 11th International Federated Conference on Distributed Computing Techniques, DisCoTec 2016. The 16 full papers included in this volume were carefully reviewed andselected from 44 submissions. The papers cover a wide range of topicsand techniques related to system coordination, including: programming andcommunication abstractions; communication protocols and behavioural types;actors and concurrent objects; tuple spaces; games, interfaces and contracts; information flow policies and dissemination techniques; and probabilistic modelsand formal verification.

Big Data Management and the Internet of Things for Improved Health Systems Jun 22 2023 Because of the increased access to high-

speed Internet and smart phones, many patients have started to use mobile applications to manage various health needs. These devices and mobile apps are now increasingly used and integrated with telemedicine and telehealth via the medical Internet of Things (IoT). Big Data Management and the Internet of Things for Improved Health Systems is a critical scholarly resource that examines the digital transformation of healthcare. Featuring coverage on a broad range of topics, such as brain computer interface, data reduction techniques, and risk factors, this book is geared towards academicians, practitioners, researchers, and students seeking research on health and well-being data.

Kiss My Math Jan 23 2021 The New York Times bestselling math workbook from actress and math genius Danica McKellar that teaches seventh to ninth grade girls how to conquer pre-algebra! Stepping up not only the math but the sass and style, McKellar helps math-phobic teenagers moving up into high school chill out and finally “get” negative numbers, variables, absolute values, exponents, and more. As she did so effectively in Math Doesn't Suck, McKellar uses personality quizzes, reader polls, real-life testimonials, and stories from her own life—in addition to clear instruction, helpful tips, and practice problems—revealing why pre-algebra is easier, more relevant, and more glamorous than girls think.

Algebra May 29 2021 Challenge very capable students while also helping those who need the extra practice.

Homotopy Type Theory: Univalent Foundations of Mathematics Mar 08 2022

Algebra the Beautiful Jul 24 2023 A mathematician reveals the hidden beauty, power, and—yes—fun of algebra What comes to mind when you think about algebra? For many of us, it’s memories of dull or frustrating classes in high school. Award-winning mathematics professor G. Arnell Williams is here to change that. Algebra the Beautiful is a journey into the heart of fundamental math that proves just how amazing this subject really is. Drawing on lessons from twenty-five years of teaching mathematics, Williams blends metaphor, history, and storytelling to uncover algebra’s hidden grandeur. Whether you’re a teacher looking to make math come alive for your students, a parent hoping to get your children engaged, a student trying to come to terms with a sometimes bewildering subject, or just a lover of mathematics, this book has something for you. With a passion that’s contagious, G. Arnell Williams shows how each of us can grasp the beauty and harmony of algebra.

Technology Adoption and Social Issues: Concepts, Methodologies, Tools, and Applications Dec 17 2022 As society continues to experience increases in technological innovations, various industries must rapidly adapt and learn to incorporate these advances. While there are benefits to implementing these technologies, the sociological aspects still need to be considered. Technology Adoption and Social Issues: Concepts, Methodologies, Tools, and Applications is an innovative reference source for the latest academic material on the various effects of technology adoption, implementation, and acceptance. Highlighting a range of topics, such as educational technology, globalization, and social structure, this multi-volume book is ideally designed for academicians, professionals, and researchers who are interested in the latest insights into technology adoption.

Encountering Algebra May 10 2022 The book reports a comparative research project about algebra teaching and learning in four countries. Algebra is a central topic of learning across the world, and it is well-known that it represents a hurdle for many students. The book presents analyses built on extensive video-recordings of classrooms documenting the first introduction to symbolic algebra (students aged 12 to 14). While the content addressed in all classrooms is variables, expressions and equations, the teaching approaches are diverse. The chapters bring the reader into different algebra classrooms, discussing issues such as mathematization and social norms, the role of mediating tools and

designed examples, and teacher beliefs. By comparing classrooms, new insights are generated about how students understand the algebraic content, how teachers instruct, and how both parties deal with difficulties in learning elementary algebra. The book also describes a research methodology using video in search of taken-for-granted aspects of algebra lessons.

Learning Approaches in Signal Processing Feb 04 2022 Coupled with machine learning, the use of signal processing techniques for big data analysis, Internet of things, smart cities, security, and bio-informatics applications has witnessed explosive growth. This has been made possible via fast algorithms on data, speech, image, and video processing with advanced GPU technology. This book presents an up-to-date tutorial and overview on learning technologies such as random forests, sparsity, and low-rank matrix estimation and cutting-edge visual/signal processing techniques, including face recognition, Kalman filtering, and multirate DSP. It discusses the applications that make use of deep learning, convolutional neural networks, random forests, etc. The applications include super-resolution imaging, fringe projection profilometry, human activities detection/capture, gesture recognition, spoken language processing, cooperative networks, bioinformatics, DNA, and healthcare.

Visual-spatial Ability in STEM Education Dec 05 2021 Each chapter in this book makes a unique contribution to the body of the literature and enhances the understanding of spatial ability and its influence on learning in the STEM disciplines. It addresses spatial abilities, ways to measure them as well as their impact and how they can affect learning subjects in scientific, technology and engineering domains. The volume deliberately covers a wide range perspectives from cognitive psychology, educational psychology, science, technology, engineering and mathematics, computer science, information technology disciplines to human development. Taking a broad view on the topic, chapters in the book discuss how to define spatial ability and its factors, the measurement of spatial ability and psychometric analyses, and educational strategies to improve spatial skills and their implications for science and technology education. The book thus provides an overview of current thinking about visual-spatial ability, spatial reasoning, and spatial skills.

The Math Myth Nov 27 2023 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

Sub: My Years Underground in America's Schools Oct 03 2021 "As a substitute teacher in the schools of San Francisco and South San

Francisco since some time in the last millennium (and in Boston before that), Tom Gallagher sees kids on their worst behavior five days a week -- that's when business is good. Once a member of the Massachusetts House of Representatives, where he was affectionately known as Tommy the Commie and sat on the Joint Committee on Education, Gallagher currently holds the line against academic entropy in everything from pre-Kindergarten through 12th Grade, from Physics to Phys Ed. The fundamental stance of Sub: My Years Underground in America's Schools is wry -- it dares raise questions like why the guy who invented middle schools was never prosecuted for crimes against humanity. At the same time, Gallagher finds much of the current national debate on education misplaced: the system works just fine for some, while for others schools are asked to solve problems in children's lives that are far beyond their scope"--Back cover.

What Mathematics Do Students Know and How is that Knowledge Changing? May 02 2024 This volume is intended for researchers, curriculum developers, policy makers, and classroom teachers who want comprehensive information on what students at grades 4, 8, and 12 (the grades assessed by NAEP) can and cannot do in mathematics. After two introductory chapters on the design of NAEP, the volume contains a chapter on the challenges in analyzing NAEP data at the item level followed by five chapters that report 2005 through 2013 student performance on specific assessment items. These chapters are organized by content area and then by topic (e.g., understanding of place value, knowledge of transformations, ability to use metric and U.S. systems of measurement) and thus provide baseline data on the proportion of students who are able to complete the mathematics tasks currently used in the upper elementary, middle, and high?school mathematics curriculum. Additional chapters focus on student reasoning, U.S. performance on international assessments, and using construct analysis rather than percent correct on clusters of items to understand student knowledge on specific mathematics topics. Several themes emerge from the volume. One is that while the rate of improvement in mathematics learning in grades 4 and 8 has slowed in recent years, it has slowed more on some topics than others. Another is that relatively minor changes in wording can have significant effects on student performance and thus it is difficult to be specific about what students can do without knowing exactly what questions they were asked. A third theme is that changes in performance over time can sometimes but not always be understood in terms of what students are taught. For example, there were substantial gains on several grade 4 items requiring understanding of fractions and that is probably because the amount of instruction on fractions in grades 3 and 4 has been increasing. In contrast, while relatively few twelfth?grade students have ever been good at factoring trinomials, performance on this skill seems to be decreasing. This suggests that while more students are completing advanced mathematics courses in high school, these courses are not helping in the area of factoring trinomials. Finally, there are limitations to using NAEP as a measure of student performance on the Common Core State Standards. To the extent that NAEP can be used, however, the NAEP data show a substantial gap between expectations and performance.

Math with Bad Drawings Sep 25 2023 A hilarious reeducation in mathematics-full of joy, jokes, and stick figures-that sheds light on the countless practical and wonderful ways that math structures and shapes our world. In Math With Bad Drawings, Ben Orlin reveals to us what math actually is; its myriad uses, its strange symbols, and the wild leaps of logic and faith that define the usually impenetrable work of the mathematician. Truth and knowledge come in multiple forms: colorful drawings, encouraging jokes, and the stories and insights of an empathetic teacher who believes that math should belong to everyone. Orlin shows us how to think like a mathematician by teaching us a brand-new game of tic-tac-toe, how to understand an economic crises by rolling a pair of dice, and the mathematical headache that ensues

when attempting to build a spherical Death Star. Every discussion in the book is illustrated with Orlin's trademark "bad drawings," which convey his message and insights with perfect pitch and clarity. With 24 chapters covering topics from the electoral college to human genetics to the reasons not to trust statistics, Math with Bad Drawings is a life-changing book for the math-estranged and math-enamored alike.
Essential Algebra Jul 12 2022
Topological (in) Hegel Aug 25 2023 The aim of this book is to critically examine whether it is methodologically possible to combine mathematical rigor – topology with a systematic dialectical methodology in Hegel, and if so, to provide as result of my interpretation the outline of Hegel’s Analysis Situs, also with the proposed models (build on the topological manifold, cobordism, topological data analysis, persistent homology, simplicial complexes and graph theory, to provide an indication of how the merger of Hegel’s dialectical logic and topology may be instrumental to a systematic logician and of how a systematic dialectical logic perspective may help mathematical model builders.
Meeting the Challenges to Measurement in an Era of Accountability Sep 01 2021 Under pressure and support from the federal government, states have increasingly turned to indicators based on student test scores to evaluate teachers and schools, as well as students themselves. The focus thus far has been on test scores in those subject areas where there is a sequence of consecutive tests, such as in mathematics or English/language arts with a focus on grades 4-8. Teachers in these subject areas, however, constitute less than thirty percent of the teacher workforce in a district. Comparatively little has been written about the measurement of achievement in the other grades and subjects. This volume seeks to remedy this imbalance by focusing on the assessment of student achievement in a broad range of grade levels and subject areas, with particular attention to their use in the evaluation of teachers and schools in all. It addresses traditional end-of-course tests, as well as alternative measures such as portfolios, exhibitions, and student learning objectives. In each case, issues related to design and development, psychometric considerations, and validity challenges are covered from both a generic and a content-specific perspective. The NCME Applications of Educational Measurement and Assessment series includes edited volumes designed to inform research-based applications of educational measurement and assessment. Edited by leading experts, these books are comprehensive and practical resources on the latest developments in the field. The NCME series editorial board is comprised of Michael J. Kolen, Chair; Robert L. Brennan; Wayne Camara; Edward H. Haertel; Suzanne Lane; and Rebecca Zwick.

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