

Number

...or **NUMB**, for the correct order of operations, take care when using a calculator.

- Brackets
- Orders (or powers)
- Division and Multiplication
- Addition and Subtraction

Types of number

Integer: a 'whole' number
Factors: the divisors of an integer
• Factors of 12 are 1, 2, 3, 4, 6, 12
Multiples: a 'times table' for an integer (with infinite multiples)
• Multiples of 12 are 12, 24, 36, ...
Prime number: an integer which has exactly two factors (1 and the number itself). Note it is not a prime number.

Units

Highest Common Factor (HCF)
• Factors of 6 are 1, 2, 3, 6
Factors of 9 are 1, 3, 9
HCF of 6 and 9 is 3

Lowest Common Multiple (LCM)

• Multiples of 6 are 6, 12, 18, 24, ...
Multiples of 9 are 9, 18, 27, 36, ...
LCM of 6 and 9 is 18

Power notation

Write a number as a product of its prime factors, and follow for repeated factors.
• $120 = 2 \times 2 \times 2 \times 3 \times 5$

Indices and roots

Special indices for any number a
 $a^0 = 1$
 $a^{-1} = \frac{1}{a}$
 $a^{-2} = \frac{1}{a^2}$

Ordering with fractions

Adding or subtracting fractions, use a common denominator.
• $\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$

Multiplying fractions

Multiplying fractions: multiply numerators and denominators.
• $\frac{1}{2} \times \frac{1}{3} = \frac{1 \times 1}{2 \times 3} = \frac{1}{6}$

Dividing fractions

Dividing fractions: 'flip' the second fraction, then multiply.
• $\frac{1}{2} \div \frac{1}{3} = \frac{1}{2} \times \frac{3}{1} = \frac{3}{2}$

Prime factors

Factorise an integer as a product of its prime factors.
• $12 = 2 \times 2 \times 3$

Least common multiple

Least common multiple (LCM) is the smallest number that is a multiple of two or more numbers.
• LCM of 6 and 9 is 18

Algebra

Look for the biggest square number factor of the coefficient.
• $100 = 10 \times 10$

Standard form

Standard form numbers are of the form: $a \times 10^n$ where $1 \leq a < 10$ and n is an integer.

Scientific notation

1 metre = 1000 millimetres
1 kilometre = 1000 metres
1 million = 1000 thousands
1 billion = 1000 millions
1 quadrillion = 1000 billions

Area and perimeter

1 day = 24 hours
1 hour = 60 minutes = 3600 seconds
1 minute = 60 seconds

Geometry

Transfer the number line and a 'number line' to record up or down. Record points on the number line.
• $100, 100, 100$ to 300

Area and perimeter

Find the area of a rectangle that will cover the given shape.
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Geometry & measures

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Equation of a straight line

Equation of a straight line $y = mx + c$ as in the graph, c is the y -intercept.
• Find the equation of the line that joins (0, 2) to (2, 1).
Find the gradient: $m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{1 - 2}{2 - 0} = -\frac{1}{2}$

Pythagorean Theorem

Pythagorean Theorem: In a right-angled triangle, the square of the hypotenuse is equal to the sum of the squares of the other two sides.
• $a^2 + b^2 = c^2$

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Probability

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There is plenty more to the Foundation Tier content, so make the most of it! Use all the content, including all the exercises you are provided to learn for GCSE. Use the exercises as a guide to learn. The content is for the 100 output content. The content is well, keep it in your mind, using it in your bag, make notes in it, learn, then take it into the examination...

Statistics

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Pixl Maths Exam Paper Jan 2014

**Lu Fang, Daniel Povey, Guangtao
Zhai, Tao Mei, Ruiping Wang**



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MultiMedia Modeling Cathal Gurrin, Frank Hopfgartner, Wolfgang Hurst, Håvard Johansen, Hyowon Lee, Noel O'Connor, 2014-01-02 The two volume set LNCS 8325 and 8326 constitutes the thoroughly refereed proceedings of the 20th Anniversary International Conference on Multimedia Modeling MMM 2014 held in Dublin Ireland in January 2014 The 46 revised regular papers 11 short papers and 9 demonstration papers were carefully reviewed and selected from 176 submissions 28 special session papers and 6 papers from Video Browser Showdown workshop are also included in the proceedings The papers included in these two volumes cover a diverse range of topics including applications of multimedia modelling interactive retrieval image and video collections 3D and augmented reality temporal analysis of multimedia content compression and streaming Special session papers cover the following topics Mediadrom artful post TV scenarios MM analysis for surveillance video and security applications 3D multimedia computing and modeling social geo media analytics and retrieval multimedia hyperlinking and retrieval

Handbook of Visual Optics, Volume One Pablo Artal, 2017-02-17 Handbook of Visual Optics offers an authoritative overview of encyclopedic knowledge in the field of physiological optics It builds from fundamental concepts to the science and technology of instruments and practical procedures of vision correction integrating expert knowledge from physics medicine biology psychology and engineering The chapters comprehensively cover all aspects of modern study and practice from optical principles and optics of the eye and retina to novel ophthalmic tools for imaging and visual testing devices and techniques for visual correction and the relationship between ocular optics and visual perception

ICCCE 2020 Amit Kumar, Stefan Mozar, 2020-10-11 This book is a collection of research papers and articles presented at the 3rd International Conference on Communications and Cyber Physical Engineering ICCCE 2020 held on 1 2 February 2020 at CMR Engineering College Hyderabad Telangana India Discussing the latest developments in voice and data communication engineering cyber physical systems network science communication software image and multimedia processing research and applications as well as communication technologies and other related technologies it includes contributions from both academia and industry This book is a valuable resource for scientists research scholars and PG students working to formulate their research ideas and find the future directions in these areas Further it may serve as a reference work to understand the latest engineering and technologies used by practicing engineers in the field of communication engineering

Intelligent Sustainable Systems Atulya Nagar, Dharm Singh Jat, Durgesh Mishra, Amit Joshi, 2025-08-02 This book provides insights of World Conference on Smart Trends in Systems Security and Sustainability WS4 2024 which is divided into different sections such as Smart IT Infrastructure for Sustainable Society Smart Management Prospective for Sustainable Society Smart Secure Systems for Next Generation Technologies Smart Trends for Computational Graphics and Image Modeling and Smart Trends for Biomedical and Health Informatics The proceedings is presented in four volumes The book is helpful for active researchers and practitioners in the field

Computational Intelligence in Communications and Business Analytics Somnath Mukhopadhyay, Sunita Sarkar, Paramartha Dutta, Jyotsna Kumar Mandal, Sudipta Roy, 2022-07-21 This book constitutes the refereed proceedings of the 4th International Conference on Computational Intelligence Communications and Business Analytics CICBA 2022 held in Silchar India in January 2022 The 21 full papers and 13 short papers presented in this volume were carefully reviewed and selected from 107 submissions The papers are organized in topical sections on computational intelligence computational intelligence in communication and computational intelligence in analytics **Computer Vision - ACCV 2018 Workshops** Gustavo Carneiro, Shaodi You, 2019-06-18 This LNCS workshop proceedings ACCV 2018 contains carefully reviewed and selected papers from 11 workshops each having different types or programs Scene Understanding and Modelling SUMO Challenge Learning and Inference Methods for High Performance Imaging LIMHPI Attention Intention Understanding AIU Museum Exhibit Identification Challenge Open MIC for Domain Adaptation and Few Shot Learning RGB D Sensing and Understanding via Combined Colour and Depth Dense 3D Reconstruction for Dynamic Scenes AI Aesthetics in Art and Media AIAM Robust Reading IWRR Artificial Intelligence for Retinal Image Analysis AIRIA Combining Vision and Language Advanced Machine Vision for Real life and Industrially Relevant Applications AMV **Putting the "Why" Back into Bone "Archytecture"** Phil Salmon, Daniel Chappard, Andrew Anthony Pitsillides, 2017-07-27 A large literature exists on trabecular and cortical bone morphology The engineering performance of bone implied from its 3d architecture is often the endpoint of bone biology experiments being clinically relevant to bone fracture How and why does bone travel along its complex spatio temporal trajectory to acquire its architecture The question why can have two meanings The first teleological why is an architecture advantageous is the domain of substantial biomechanical research to date The second etiological how did an architecture come about has received far less attention This Frontiers Bone Research Topic invited contributions addressing this etiological why what mechanisms can coordinate the activity of bone forming and resorbing cells to produce the observed complex and efficient bone architectures One mechanism is proposed chaotic nonlinear pattern formation NPF which underlies in a unifying way natural structures as disparate as trabecular bone swarms of birds flying or shoaling fish island formation fluid turbulence and others At the heart of NPF is the fact that simple rules operating between interacting elements multiplied and repeated many times lead to complex and structured patterns This paradigm of growth and form leads to a profound link between bone regulation and its architecture in bone the architecture is the regulation The former is the emergent consequence of the latter Whatever mechanism does determine bone s developing architecture has to operate at the level of individual sites of formation and resorption and coupling between the two This has implications as to how we understand the effect on bone of agents such as gene products or drugs It may be for instance that the tuning of coupling between formation and resorption might be as important as the achievement of enhanced bone volume The ten articles that were contributed to this Topic were just what we hoped for a snapshot of leading edge bone biology research which

addresses the question of how bone gets its shape We hope that you find these papers thought provoking and that they might stimulate new ideas in the research into bone architecture growth and adaptation and how to preserve healthy bone from gestation and childhood until old age **Low Power Circuit Design Using Advanced CMOS Technology** Milin

Zhang,Zhihua Wang,Jan Van der Spiegel,2022-09-01 Low Power Circuit Design Using Advanced CMOS Technology is a summary of lectures from the first Advanced CMOS Technology Summer School ACTS 2017 The slides are selected from the handouts while the text was edited according to the lecturers talk ACTS is a joint activity supported by the IEEE Circuit and System Society CASS and the IEEE Solid State Circuits Society SSCS The goal of the school is to provide society members as well researchers and engineers from industry the opportunity to learn about new emerging areas from leading experts in the field ACTS is an example of high level continuous education for junior engineers teachers in academe and students ACTS was the results of a successful collaboration between societies the local chapter leaders and industry leaders This summer school was the brainchild of Dr Zhihua Wang with strong support from volunteers from both the IEEE SSCS and CASS In addition the local companies Synopsys China and Beijing IC Park provided support This first ACTS was held in the summer 2017 in Beijing The lectures were given by academic researchers and industry experts who presented each 6 hour long lectures on topics covering process technology EDA skill and circuit and layout design skills The school was hosted and organized by the CASS Beijing Chapter SSCS Beijing Chapter and SSCS Tsinghua Student Chapter The co chairs of the first ACTS were Dr Milin Zhang Dr Hanjun Jiang and Dr Liyuan Liu The first ACTS was a great success as illustrated by the many participants from all over China as well as by the publicity it has been received in various media outlets including Xinhua News one of the most popular news channels in China **Teaching English to Young Learners** Janice Bland,2015-09-24 Aimed at student

teachers educators and practitioners Teaching English Language to Young Learners outlines and explains the crucial issues themes and scenarios relating to this area of teaching Each chapter by a leading international scholar offers a thorough introduction to a central theme of English as a foreign language EFL with preteens with clear presentation of the theoretical background and detailed references for further reading providing access to the most recent scholarship Exploring the essential issues critically and in depth including the disadvantages as well as advantages of Teaching English as a Foreign Language TEFL with young learners topics include task based learning in the primary school storytelling drama technology vocabulary development intercultural understanding Content and Language Integrated Learning CLIL scenarios assessment Innovative and rapidly emerging topics are covered such as immersion teaching picturebooks in the EFL classroom and English with pre primary children **Modern Approaches in Machine Learning and Cognitive Science: A Walkthrough** Vinit

Kumar Gunjan,Jacek M. Zurada,2021-04-26 This book provides a systematic and comprehensive overview of machine learning with cognitive science methods and technologies which have played an important role at the core of practical solutions for a wide scope of tasks between handheld apps industrial process control autonomous vehicles environmental

policies life sciences playing computer games computational theory and engineering development The chapters in this book focus on readers interested in machine learning cognitive and neuro inspired computational systems theories mechanisms and architecture which underline human and animal behaviour and their application to conscious and intelligent systems In the current version it focuses on the successful implementation and step by step explanation of practical applications of the domain It also offers a wide range of inspiring and interesting cutting edge contributions to applications of machine learning and cognitive science such as healthcare products medical electronics and gaming Overall this book provides valuable information on effective cutting edge techniques and approaches for students researchers practitioners and academicians working in the field of AI neural network machine learning and cognitive science Furthermore the purpose of this book is to address the interests of a broad spectrum of practitioners students and researchers who are interested in applying machine learning and cognitive science methods in their respective domains **Artificial Intelligence** Lu Fang, Daniel

Povey, Guangtao Zhai, Tao Mei, Ruiping Wang, 2022-12-16 This three volume set LNCS 13604 13606 constitutes revised selected papers presented at the Second CAAI International Conference on Artificial Intelligence held in Beijing China in August 2022 CICAi is a summit forum in the field of artificial intelligence and the 2022 forum was hosted by Chinese Association for Artificial Intelligence CAAI The 164 papers were thoroughly reviewed and selected from 521 submissions CICAi aims to establish a global platform for international academic exchange promote advanced research in AI and its affiliated disciplines such as machine learning computer vision natural language processing and data mining amongst others

Mathematics and Computing Debdas Ghosh, Debasis Giri, Ram N. Mohapatra, Ekrem Savas, Kouichi Sakurai, L. P. Singh, 2018-04-13 This book constitutes the proceedings of the 4th International Conference on Mathematics and Computing ICMC 2018 held in Varanasi India in January 2018 The 29 papers presented in this volume were carefully reviewed and selected from 116 submissions They are organized in topical sections on security and coding theory computing applied mathematics pure mathematics **Reasoning in Measurement** Nicola Mößner, Alfred Nordmann, 2017-03-16 This

collection offers a new understanding of the epistemology of measurement The interdisciplinary volume explores how measurements are produced for example in astronomy and seismology in studies of human sexuality and ecology in brain imaging and intelligence testing It considers photography as a measurement technology and Henry David Thoreau's poetic measures as closing the gap between mind and world By focusing on measurements as the hard won results of conceptual as well as technical operations the authors of the book no longer presuppose that measurement is always and exclusively a means of representing some feature of a target object or entity Measurement also provides knowledge about the degree to which things have been standardized or harmonized it is an indicator of how closely human practices are attuned to each other and the world Biomedical Engineering and Environmental Engineering David Chan, 2015-05-06 This conference series is a forum for enhancing mutual understanding between Biomedical Engineering and Environmental Engineering field

This proceeding provides contributions from many experts representing industry and academic establishments worldwide. The researchers are from different countries and professional. The conference brought *Compressed Sensing and its Applications* Holger Boche, Robert Calderbank, Gitta Kutyniok, Jan Vybíral, 2015-07-04. Since publication of the initial papers in 2006, compressed sensing has captured the imagination of the international signal processing community and the mathematical foundations are nowadays quite well understood. Parallel to the progress in mathematics, the potential applications of compressed sensing have been explored by many international groups of, in particular, engineers and applied mathematicians, achieving very promising advances in various areas such as communication theory, imaging sciences, optics, radar technology, sensor networks, or tomography. Since many applications have reached a mature state, the research center MATHEON in Berlin, focusing on Mathematics for Key Technologies, invited leading researchers on applications of compressed sensing from mathematics, computer science, and engineering to the MATHEON Workshop 2013: Compressed Sensing and its Applications in December 2013. It was the first workshop specifically focusing on the applications of compressed sensing. This book features contributions by the plenary and invited speakers of this workshop. To make this book accessible for those unfamiliar with compressed sensing, the book will not only contain chapters on various applications of compressed sensing written by plenary and invited speakers but will also provide a general introduction into compressed sensing. The book is aimed at both graduate students and researchers in the areas of applied mathematics, computer science, and engineering, as well as other applied scientists interested in the potential and applications of the novel methodology of compressed sensing. For those readers who are not already familiar with compressed sensing, an introduction to the basics of this theory will be included. *Document Classification in Information Retrieval System based on Neutrosophic sets* O.G. El Barbary, The aim of the present paper is to suggest a neutrosophic set model for information retrieval and to develop methods and algorithms for information retrieval based on the neutrosophic set model. A neutrosophic set has the possibility of being a common structure for the vagueness analysis of data sets, also including big data sets. Here we defined useful techniques like distance and similarity between two neutrosophic sets that have been applied to document classification in information retrieval. We define an innovative algorithm for classifying documents based on Euclidian distance between two neutrosophic sets. About 2500 documents in seven different categories are used for evaluation of this new algorithm. Our experiments show that Neutrosophic Classification Algorithm achieved 95% performance. **Progress in Advanced Computing and Intelligent Engineering** Khalid Saeed, Nabendu Chaki, Bibudhendu Pati, Sambit Bakshi, Durga Prasad Mohapatra, 2018-02-08. The book focuses on both theory and applications in the broad areas of communication technology, computer science, and information security. This two-volume book contains the Proceedings of International Conference on Advanced Computing and Intelligent Engineering. These volumes bring together academic scientists, professors, research scholars, and students to share and disseminate information on knowledge and scientific research works related to computing.

networking and informatics to discuss the practical challenges encountered and the solutions adopted The book also promotes translation of basic research into applied investigation and convert applied investigation into practice

Applications of Mathematics in Science and Technology Bui Thanh Hung,M. Sekar,Ayhan ESI,R. Senthil Kumar,2025-04-29 The Conference dealt with one of the most important problems faced in International development in Pure Mathematics and Applied mathematics development in engineering such as Cryptography Cyber Security Network Operations Research Heat Equation and so forth The aim of the conference was to provide a platform for researchers engineers academicians as well as industrial professionals to present their research results and development activities in Pure and Apply Mathematics and its applied technology It provided opportunities for the delegates to exchange new ideas and application experiences to establish business or research relations and to find global partners for future collaboration

Conference proceedings. New perspectives in science education 7th edition Pixel,2018-03-19 The built environment and public health: New insights Linchuan Yang,Ruoyu Wang,Bao-Jie He,Yu Ye,Yibin Ao,2023-02-06

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