

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.
• $120 = 2^3 \times 3 \times 5$

Indices and roots

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

Ordering and 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.
• $\frac{1}{2} \div \frac{1}{3} = \frac{1}{2} \times \frac{3}{1} = \frac{3}{2}$

Percentages

Percent is hundredth = denominator
• $\frac{1}{100} = 1\%$
The given values change directly or inversely, depending where possible.
• $0.45 = \frac{45}{100} = \frac{9}{20}$

Least common multiple

Least common multiple

12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	100
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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.
• $1000 = 1 \times 10^3$

Area and perimeter

1 square = 10000 square centimetres
1 kilometre = 1000 metres
1 metre = 100 centimetres
1 centimetre = 10 millimetres
1 day = 24 hours
1 hour = 60 minutes = 3600 seconds
1 minute = 60 seconds

Geometry

Transfer the number, then add or 'transfer' digits to round up or down.
Round 12.345 to the nearest 100.
• 12.345 is 12.35, so 12.35 is 12.35

Area and perimeter

Find the area of a rectangle that will round to a given value.
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Geometry & measures



Area and perimeter

Equation of 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.
 $m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{1 - 2}{2 - 0} = -\frac{1}{2}$

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M Tight



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XIII Mediterranean Conference on Medical and Biological Engineering and Computing 2013 Laura M. Roa Romero, 2013-10-01 The general theme of MEDICON 2013 is Research and Development of Technology for Sustainable Healthcare This decade is being characterized by the appearance and use of emergent technologies under development This situation has produced a tremendous impact on Medicine and Biology from which it is expected an unparalleled evolution in these disciplines towards novel concept and practices The consequence will be a significant improvement in health care and well fare i e the shift from a reactive medicine to a preventive medicine This shift implies that the citizen will play an important role in the healthcare delivery process what requires a comprehensive and personalized assistance In this context society will meet emerging media incorporated to all objects capable of providing a seamless adaptive anticipatory unobtrusive and pervasive assistance The challenge will be to remove current barriers related to the lack of knowledge required to produce new opportunities for all the society while new paradigms are created for this inclusive society to be socially and economically sustainable and respectful with the environment In this way these proceedings focus on the convergence of biomedical engineering topics ranging from formalized theory through experimental science and technological development to practical clinical applications

Issues in Logic, Operations, and Computational Mathematics and Geometry: 2013 Edition, 2013-05-01 Issues in Logic Operations and Computational Mathematics and Geometry 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Random Structures and Algorithms The editors have built Issues in Logic Operations and Computational Mathematics and Geometry 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Random Structures and Algorithms in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Logic Operations and Computational Mathematics and Geometry 2013 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

[Conference proceedings. New perspectives in science education](#) Pixel, 2014

A Biography of the Pixel Alvy Ray Smith, 2021-08-03 The pixel as the organizing principle of all pictures from cave paintings to Toy Story The Great Digital Convergence of all media types into one universal digital medium occurred with little fanfare at the recent turn of the millennium The bit became the universal medium and the pixel a particular packaging of bits conquered the world Henceforward nearly every picture in the world would be composed of pixels cell phone pictures app interfaces Mars Rover transmissions book illustrations videogames In A Biography of the Pixel Pixar cofounder Alvy Ray Smith argues that the pixel is the organizing principle of most modern media and he presents a few

simple but profound ideas that unify the dazzling varieties of digital image making Smith's story of the pixel's development begins with Fourier waves proceeds through Turing machines and ends with the first digital movies from Pixar DreamWorks and Blue Sky Today almost all the pictures we encounter are digital mediated by the pixel and irretrievably separated from their media museums and kindergartens are two of the last outposts of the analog Smith explains engagingly and accessibly how pictures composed of invisible stuff become visible that is how digital pixels convert to analog display elements Taking the special case of digital movies to represent all of Digital Light his term for pictures constructed of pixels and drawing on his decades of work in the field Smith approaches his subject from multiple angles art technology entertainment business and history A Biography of the Pixel is essential reading for anyone who has watched a video on a cell phone played a videogame or seen a movie 400 pages of annotations prepared by the author and available online provide an invaluable resource for readers

Digital-Forensics and Watermarking Yun Qing Shi, Hyoung-Joong Kim, Fernando Pérez-González, 2014-07-08

This book constitutes the thoroughly refereed post proceedings of the 12th International Workshop on Digital Forensics and Watermarking IWDW 2013 held in Auckland New Zealand during October 2013 The 24 full and 13 poster papers presented together with 2 abstracts were carefully reviewed and selected from 55 submissions The papers are organized in topical sections on steganography and steganalysis visual cryptography reversible data hiding forensics watermarking anonymizing and plate recognition

Medical Image Computing and Computer-Assisted Intervention -- MICCAI 2013 Kensaku

Mori, Ichiro Sakuma, Yoshinobu Sato, Christian Barillot, Nassir Navab, 2013-09-20 The three volume set LNCS 8149 8150 and 8151 constitutes the refereed proceedings of the 16th International Conference on Medical Image Computing and Computer Assisted Intervention MICCAI 2013 held in Nagoya Japan in September 2013 Based on rigorous peer reviews the program committee carefully selected 262 revised papers from 789 submissions for presentation in three volumes The 95 papers included in the first volume have been organized in the following topical sections physiological modeling and computer assisted intervention imaging reconstruction and enhancement registration machine learning statistical modeling and atlases computer aided diagnosis and imaging biomarkers intraoperative guidance and robotics microscope optical imaging and histology cardiology vasculatures and tubular structures brain imaging and basic techniques diffusion MRI and brain segmentation and atlases

Discrete Geometry for Computer Imagery Rocio Gonzalez Diaz, Maria Jose Jimenez, Belen Garfia Medrano, 2013-03-17

This book constitutes the thoroughly refereed proceedings of the 17th International Conference on Discrete Geometry for Computer Imagery DGCI 2013 held in Seville Spain in March 2013 The 34 revised full papers presented were carefully selected from 56 submissions and focus on geometric transforms discrete and combinatorial tools for image segmentation and analysis discrete and combinatorial topology discrete shape representation recognition and analysis models for discrete geometry morphological analysis and discrete tomography

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

Selected Papers from the 2018 41st International Conference on Telecommunications and Signal Processing (TSP) Norbert Herencsar,Francesco Benedetto,Jorge Crichigno,2019-07-01 This Special Issue contains a series of excellent research works on telecommunications and signal processing selected from the 2018 41st International Conference on Telecommunications and Signal Processing TSP which was held on July 4 6 2018 in Athens Greece The conference was organized in cooperation with the IEEE Region 8 Europe Middle East and Africa IEEE Greece Section IEEE Czechoslovakia Section and IEEE Czechoslovakia Section SP CAS COM Joint Chapter by seventeen universities from the Czech Republic Hungary Turkey Taiwan Japan Slovak Republic Spain Bulgaria France Slovenia Croatia and Poland for academics researchers and developers and serves as a premier international forum for the annual exchange and promotion of the latest advances in telecommunication technology and signal processing The aim of the conference is to bring together both novice and experienced scientists developers and specialists to meet new colleagues collect new ideas and establish new cooperation between research groups from universities research centers and private sectors worldwide This collection of 10 papers is highly recommended for researchers and believed to be interesting inspiring and motivating for readers in their further research

How to Free Your Inner Mathematician Susan D'Agostino,2020 How to Free Your Inner Mathematician delivers engaging mathematical content and provides reassurance that mathematical success has more to do with curiosity and drive than innate aptitude offering readers more than 300 hand drawn sketches alongside accessible descriptions of topics

Rotating Machinery, Optical Methods & Scanning LDV Methods, Volume 6 Dario Di Maio,Javad Baqersad,2025-08-07 Rotating Machinery Optical Methods Scanning LDV Methods Volume 6 Proceedings of the 39th IMAC A Conference and Exposition on Structural Dynamics 2021 the sixth volume of nine from the Conference brings together contributions to this important area of research and engineering The collection presents early findings and case studies on fundamental and applied aspects of Structural Health Monitoring including papers on Novel Techniques Optical Methods Scanning LDV Methods Photogrammetry DIC Rotating Machinery

Hybrid Artificial Intelligent Systems Jeng-Shyang Pan,Marios M. Polycarpou,Michal Wozniak,André C.P.L.F. de Carvalho,Héctor Quintian,2013-08-15 This volume constitutes the proceedings of the 8th International Conference on Hybrid Artificial Intelligent Systems HAIS 2013 held in Salamanca

Spain in September 2013 The 68 papers published in this volume were carefully reviewed and selected from 218 submissions They are organized in topical sessions on Agents and Multi Agents Systems HAIS Applications Classification and Cluster Analysis Data Mining and Knowledge Discovery Video and Image Analysis Bio inspired Models and Evolutionary Computation Learning Algorithms Systems MAN and Cybernetics Hybrid Intelligent Systems for Data Mining and Applications Metaheuristics for Combinatorial Optimization and Modelling Complex Systems Curves and Surfaces Jean-Daniel Boissonnat,Albert Cohen,Olivier Gibaru,Christian Gout,Tom Lyche,Marie-Laurence Mazure,Larry L. Schumaker,2015-08-13 This volume constitutes the thoroughly refereed post conference proceedings of the 8th International Conference on Curves and Surfaces held in Paris France in June 2014 The conference had the overall theme Representation and Approximation of Curves and Surfaces and Applications The 32 revised full papers presented were carefully reviewed and selected from 39 submissions The scope of the conference was on following topics approximation theory computer aided geometric design computer graphics and visualization computational geometry and topology geometry processing image and signal processing interpolation and smoothing mesh generation finite elements and splines scattered data processing and learning theory sparse and high dimensional approximation subdivision wavelets and multi resolution method Discrete Geometry and Mathematical Morphology Étienne Baudrier,Benoît Naegel,Adrien Krähenbühl,Mohamed Tajine,2022-10-20 This book constitutes the proceedings of the Second IAPR International Conference on Discrete Geometry and Mathematical Morphology DGMM 2022 which was held during October 24 27 2022 in Strasbourg France The 33 papers included in this volume were carefully reviewed and selected from 45 submissions They were organized in topical sections as follows discrete and combinatorial topology discrete tomography and inverse problems multivariate and PDE based mathematical morphology morphological filtering hierarchical and Graph Based Models Analysis and Segmentation discrete geometry models transforms and visualization learning based morphology to Mathematical Morphology and distance transform The book also contains 3 invited keynote papers **Brainlesion: Glioma, Multiple Sclerosis, Stroke and Traumatic Brain Injuries** Alessandro Crimi,Spyridon Bakas,2021-03-25 This two volume set LNCS 12658 and 12659 constitutes the thoroughly refereed proceedings of the 6th International MICCAI Brainlesion Workshop BrainLes 2020 the International Multimodal Brain Tumor Segmentation BraTS challenge and the Computational Precision Medicine Radiology Pathology Challenge on Brain Tumor Classification CPM RadPath challenge These were held jointly at the 23rd Medical Image Computing for Computer Assisted Intervention Conference MICCAI 2020 in Lima Peru in October 2020 The revised selected papers presented in these volumes were organized in the following topical sections brain lesion image analysis 16 selected papers from 21 submissions brain tumor image segmentation 69 selected papers from 75 submissions and computational precision medicine radiology pathology challenge on brain tumor classification 6 selected papers from 6 submissions The workshop and challenges were held virtually *Graph Drawing and Network Visualization* Fabrizio Frati,Kwan-Liu Ma,2018-01-25

This book constitutes revised selected papers from the 25th International Symposium on Graph Drawing and Network Visualization GD 2017 held in Boston MA USA in September 2017 The 34 full and 9 short papers presented in this volume were carefully reviewed and selected from 87 submissions Also included in this book are 2 abstracts of keynote presentations 16 poster abstracts and 1 contest report The papers are organized in topical sections named straight line representations obstacles and visibility topological graph theory orthogonal representations and book embeddings evaluations tree drawings graph layout designs point set embeddings special representations and beyond planarity

Mathematical Methods for Curves and Surfaces Michael Floater, Tom Lyche, Marie-Laurence Mazure, Knut Morken, Larry L. Schumaker, 2014-02-03

This volume constitutes the thoroughly refereed post conference proceedings of the 8th International Conference on Mathematical Methods for Curves and Surfaces MMCS 2012 held in Oslo Norway in June July 2012 The 28 revised full papers presented were carefully reviewed and selected from 135 submissions The topics range from mathematical analysis of various methods to practical implementation on modern graphics processing units The papers reflect the newest developments in these fields and also point to the latest literature

Reservoir Characterization, Modeling and Quantitative Interpretation Shib Sankar Ganguli, V.P. Dimri, 2023-10-27 Reservoir Characterization Modeling and Quantitative Interpretation Recent Workflows to Emerging Technologies offers a wide spectrum of reservoir characterization techniques and technologies focusing on the latest breakthroughs and most efficient methodologies in hydrocarbon exploration and development Topics covered include 4D seismic technologies AVAz inversion fracture characterization multiscale imaging technologies static and dynamic reservoir characterization among others The content is delivered through an inductive approach which will help readers gain comprehensive insights on advanced practices and be able to relate them to other subareas of reservoir characterization including CO₂ storage and data driven modeling This will be especially useful for field scientists in collecting and analyzing field data prospect evaluation developing reservoir models and adopting new technologies to mitigate exploration risk They will be able to solve the practical and challenging problems faced in the field of reservoir characterization as it will offer systematic industrial workflows covering every aspect of this branch of Earth Science including subsurface geoscientific perspectives of carbon geosequestration This resource is a 21st Century guide for exploration geologists geoscience students at postgraduate level and above and petrophysicists working in the oil and gas industry Covers the latest and most effective technologies in reservoir characterization including Avo analysis AVAz inversion wave field separation and Machine Learning techniques Provides a balanced blend of both theoretical and practical approaches for solving challenges in reservoir characterization Includes detailed industry standard practical workflows along with code structures for algorithms and practice exercises

Computer Vision Hongbin Zha, Xilin Chen, Liang Wang, Qiguang Miao, 2015-09-18 The two volumes CCIS 546 and 547 constitute the refereed proceedings of the CCF Chinese Conference on Computer Vision CCCV 2015 held in Xi an China in September 2015 The total of 89 revised full papers presented in both

volumes were carefully reviewed and selected from 176 submissions The papers address issues such as computer vision machine learning pattern recognition target recognition object detection target tracking image segmentation image restoration face recognition image classification *Pattern Recognition* Thomas Brox,Andrés Bruhn,Mario Fritz,2019-02-15 This book constitutes the refereed proceedings of the 40th German Conference on Pattern Recognition GCPR 2018 held in Stuttgart Germany in October 2018 The 48 revised full papers presented were carefully reviewed and selected from 118 submissions The German Conference on Pattern Recognition is the annual symposium of the German Association for Pattern Recognition DAGM It is the national venue for recent advances in image processing pattern recognition and computer vision and it follows the long tradition of the DAGM conference series which has been renamed to GCPR in 2013 to reflect its increasing internationalization In 2018 in Stuttgart the conference series celebrated its 40th anniversary

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