

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 value a
 $a^0 = 1$
 $a^{-1} = \frac{1}{a}$
 $a^{\frac{1}{2}} = \sqrt{a}$

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

Proportion notation

Fraction in numerator = denominator
• $\frac{1}{2} \text{ of } 10 = \frac{1}{2} \times 10 = 5$

Percent notation

Use the given values to change decimals or fractions. Multiply where possible.
• $0.45 = \frac{45}{100} = \frac{9}{20}$

Least frequently used ones

100	1000	10000	100000	1000000	10000000	100000000	1000000000
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Units

Look for the biggest square number factor of the number.
• $100 = 10 \times 10 = 10^2$

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 atom = 0.000 000 000 000 000 000 000 kg
1 kilogram = 1000 grams
1 kilometre = 1000 metres
1 metre = 100 centimetres = 1000 millimetres
1 centimetre = 10 millimetres

Time

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

Area

Calculate the number, then use a 'square digit' to round up or down. Round (up) means use the decimal point.
• 100.1, 100.5, 100.9, ...
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Area

Find the area of numbers that will round to a given value.
• $a = 5.55$ (2 decimal places)
 $5.55 \leq a < 5.56$
• $a = 5.55$ (2 significant figures)
 $5.5 \leq a < 5.6$

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Standard graphs



Graphs

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: $m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{1 - 2}{2 - 0} = -\frac{1}{2}$
...and the y -intercept, $c = 2$
Hence the equation is $y = -\frac{1}{2}x + 2$
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Graphs

Parallel lines: gradients are equal.
• $y = 3x + 2$ and $y = 3x + 4$ both have gradient 3 so are parallel.

Graphs

Equation of a line: $y = mx + c$
• $3x + 2y = 6$ $\Rightarrow y = -\frac{3}{2}x + 3$
• $2x + 3y = 6$ $\Rightarrow y = -\frac{2}{3}x + 2$
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Right-angled triangles



Right-angled triangles

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.
No angles: $a^2 + b^2 = c^2$
The longest side of any right-angled triangle is the hypotenuse, check that your answer is consistent with this.
Special values of sin, cos, tan: Learn (or be able to find without a calculator):

θ	$\sin \theta$	$\cos \theta$	$\tan \theta$
0	0	1	0
30	$\frac{1}{2}$	$\frac{\sqrt{3}}{2}$	$\frac{1}{\sqrt{3}}$
45	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{2}$	1
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Pixl Maths Paper March 2015

G Psacharopoulos



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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

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

Spatial Information Theory Sara Irina Fabrikant, Martin Raubal, Michela Bertolotto, Clare Davies, Scott Freundsuh, Scott Bell, 2015-09-29 This book constitutes the proceedings of the 12th International Conference on Spatial

Information Theory COSIT 2015 held in Santa Fee NM USA in October 2015 The 22 papers presented in this book were carefully reviewed and selected from 52 full paper submissions The following topics are addressed formalizing and modeling space time qualitative spatio temporal reasoning and representation language and space signs images maps and other representations of space navigations by humans and machines Entropy in Image Analysis Amelia Carolina Sparavigna,2019-06-24 Image analysis is a fundamental task for extracting information from images acquired across a range of different devices Since reliable quantitative results are requested image analysis requires highly sophisticated numerical and analytical methods particularly for applications in medicine security and remote sensing where the results of the processing may consist of vitally important data The contributions to this book provide a good overview of the most important demands and solutions concerning this research area In particular the reader will find image analysis applied for feature extraction encryption and decryption of data color segmentation and in the support new technologies In all the contributions entropy plays a pivotal role 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 **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 *Ryan's Retina E-Book* SriniVas R. Sadda,Andrew P. Schachat,Charles P. Wilkinson,David R. Hinton,Peter Wiedemann,K. Bailey Freund,David Sarraf,2022-04-13 Through six outstanding and award winning editions Ryan s Retina has offered unsurpassed coverage of this complex subspecialty everything from basic science through the latest research therapeutics technology and surgical techniques The fully revised 7th Edition edited by Drs SriniVas R Sadda Andrew P Schachat Charles P Wilkinson David R Hinton Peter Wiedemann K Bailey Freund and David Sarraf continues the tradition of excellence balancing the latest scientific research and clinical correlations and covering everything you need to know on retinal diagnosis treatment development structure function and pathophysiology More than 300 global contributors share their knowledge and expertise to create the most comprehensive reference available on retina today Features sweeping content updates including new insights into the fundamental pathogenic mechanisms of age related macular degeneration advances in imaging including OCT angiography and intraoperative OCT new therapeutics for retinal vascular disease and AMD novel immune based therapies for uveitis and the latest in instrumentation and techniques for vitreo retinal surgery Includes five new chapters

covering Artificial Intelligence and Advanced Imaging Analysis Pachychoroid Disease and Its Association with Polypoidal Choroidal Vasculopathy Retinal Manifestations of Neurodegeneration Microbiome and Retinal Disease and OCT Angiography Includes more than 50 video clips 35 new to this edition highlighting the latest surgical techniques imaging guidance and coverage of complications of vitreoretinal surgery New videos cover Scleral Inlay for Recurrent Optic Nerve Pit Masculopathy Trauma with Contact Lens Recurrent Retinal Detachment due to PVR Asteroid Hyalosis and many more Contains more than 2 000 high quality images 700 new to this edition including anatomical illustrations clinical and surgical photographs diagnostic imaging decision trees and graphs Enhanced eBook version included with purchase Your enhanced eBook allows you to access all of the text figures and references from the book on a variety of devices Geometric Science of Information Frank Nielsen, Frederic Barbaresco, 2015-10-24 This book constitutes the refereed proceedings of the Second International Conference on Geometric Science of Information GSI 2015 held in Palaiseau France in October 2015 The 80 full papers presented were carefully reviewed and selected from 110 submissions and are organized into the following thematic sessions Dimension reduction on Riemannian manifolds optimal transport optimal transport and applications in imagery statistics shape space and diffeomorphic mappings random geometry homology Hessian information geometry topological forms and Information information geometry optimization information geometry in image analysis divergence geometry optimization on manifold Lie groups and geometric mechanics thermodynamics computational information geometry Lie groups novel statistical and computational frontiers geometry of time series and linear dynamical systems and Bayesian and information geometry for inverse problems **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 *Communication and Computing Systems* B.M.K. Prasad, Krishna Kant Singh, Neelam Ruhil, Karan Singh, Richard O'Kennedy, 2017-02-15 This book is a collection of accepted papers that were presented at the International Conference on Communication and Computing Systems ICCCS 2016 Dronacharya College of Engineering Gurgaon September 9 11 2016 The purpose of the conference was to provide a platform for interaction between scientists from industry academia and other areas of society to discuss the current advancements in the field of

communication and computing systems The papers submitted to the proceedings were peer reviewed by 2 3 expert referees
This volume contains 5 main subject areas 1 Signal and Image Processing 2 Communication Computer Networks 3 Soft
Computing Intelligent System Machine Vision and Artificial Neural Network 4 VLSI Embedded System 5 Software
Engineering and Emerging Technologies

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