

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

Prime factors

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

Least common multiple

12	18	24	36	48	60
12	18	24	36	48	60

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 = 1 000 grams
1 kilometre = 1 000 metres
1 metre = 100 centimetres = 1 000 millimetres
1 centimetre = 10 millimetres

Time

1 day = 24 hours
1 hour = 60 minutes = 3 600 seconds
1 minute = 60 seconds

Area and perimeter

Calculate the perimeter, then use it to 'double' (if) to find area or vice versa.
Perimeter (units) = the distance round.
• Perimeter of a square = 4 × side.

Area

Area of a rectangle = length × width
• Area of a square = side × side
• Area of a triangle = $\frac{1}{2} \times \text{base} \times \text{height}$

Volume

Volume of a rectangular prism = length × width × height
• Volume of a cube = side × side × side
• Volume of a cylinder = $\pi \times \text{radius}^2 \times \text{height}$

Area of a triangle

Area of a triangle = $\frac{1}{2} \times \text{base} \times \text{height}$
• Area of a square = side × side
• Area of a rectangle = length × width

Area of a circle

Area of a circle = $\pi \times \text{radius}^2$
• Area of a sector = $\frac{\theta}{360} \times \pi \times \text{radius}^2$
• Area of a segment = Area of sector - Area of triangle

Area of a parallelogram

Area of a parallelogram = base × height
• Area of a rectangle = length × width
• Area of a triangle = $\frac{1}{2} \times \text{base} \times \text{height}$

Area of a trapezium

Area of a trapezium = $\frac{1}{2} \times (\text{top} + \text{bottom}) \times \text{height}$
• Area of a square = side × side
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Standard graphs



Graphs of functions

Equation of straight line $y = mx + c$ or $y = a + bx$ as in the graphs, x is the x -coordinate.
• Find the equation of the line that joins (0, 2) to (2, 1).
Find the gradient: $\frac{1-2}{2-0} = -\frac{1}{2}$
...and its y -intercept.
Hence the line is $y = -\frac{1}{2}x + 2$
Equation is $y = -\frac{1}{2}x + 2$

Graphs of functions

Parallel lines: gradients are equal.
• $y = 2x + 3$ and $y = 2x + 5$ both have gradient 2 so are parallel.

Graphs of functions

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Right-angled triangles



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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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 with, for the GCSE. Use the exercises as a guide to help you learn. The exercises are for the 100 output content. The exercises will help you to see what you are learning, and to see how it fits into the overall picture.

Algebra



Algebraic diagrams

Algebraic diagrams: a triangle with sides a, b, c, a square with side a, and a rectangle with sides a and b.

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JE Gale



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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 **Computer Vision - ACCV 2014 Workshops** C.V. Jawahar, Shiguang Shan, 2015-04-10 The three volume set consisting of LNCS 9008 9009 and 9010 contains carefully reviewed and selected papers presented at 15 workshops held in conjunction with the 12th Asian Conference on Computer Vision ACCV 2014 in Singapore in November 2014 The 153 full papers presented were selected from numerous submissions LNCS 9008 contains the papers selected for the Workshop on Human Gait and Action Analysis in the Wild the Second International Workshop on Big Data in 3D Computer Vision the Workshop on Deep Learning on Visual Data the Workshop on Scene Understanding for Autonomous Systems and the Workshop on Robust Local Descriptors for Computer Vision LNCS 9009 contains the papers selected for the Workshop on Emerging Topics on Image Restoration and Enhancement the First International Workshop on Robust Reading the Second Workshop on User Centred Computer Vision the International Workshop on Video Segmentation in Computer Vision the Workshop My Car Has Eyes Intelligent Vehicle with Vision Technology the Third Workshop on E Heritage and the Workshop on Computer Vision for Affective Computing LNCS 9010 contains the papers selected for the Workshop on Feature and Similarity for Computer Vision the Third International Workshop on Intelligent Mobile and Egocentric Vision and the Workshop on Human Identification for Surveillance *Computer Vision -- ACCV 2014* Daniel Cremers, Ian Reid, Hideo Saito, Ming-Hsuan Yang, 2015-04-16 The five volume set LNCS 9003 9007 constitutes the thoroughly refereed post conference proceedings of the 12th Asian Conference on Computer Vision ACCV 2014 held in Singapore Singapore in November 2014 The total of 227 contributions presented in these volumes was carefully reviewed and selected from 814 submissions The papers are organized in topical sections on recognition 3D vision low level vision and features segmentation face and gesture tracking stereo physics video and events and poster sessions 1 3 **Advances in Neural Networks - ISNN 2014** Zhigang Zeng, Yangmin Li, Irwin King, 2014-11-28 The volume LNCS 8866 constitutes the refereed proceedings of the 11th International Symposium on Neural Networks ISNN 2014 held in Hong Kong and Macao China on November December 2014 The 71 revised full papers presented were carefully reviewed and selected from 119 submissions These papers cover all

major topics of the theoretical research empirical study and applications of neural networks research as follows The focus is on following topics such as analysis modeling and applications *Electronics, Information Technology and Intellectualization* Young Min Song,Kyung Sup Kwak,2015-01-08 The International Conference on Electronics Information Technology and Intellectualization ICEITI2014 was dedicated to build a high level international academic communication forum for international experts and scholars This first conference of an annual series was held in Pengcheng Shenzhen China 16 17 August 2014 Many prestigious experts **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 **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 Neural Information Processing Chu Kiong Loo,Yap Keem Siah,Kok Wai Wong,Andrew Teoh Beng Jin,Kaizhu Huang,2014-10-21 The three volume set LNCS 8834 LNCS 8835 and LNCS 8836 constitutes the proceedings of the 20th International Conference on Neural Information Processing ICONIP 2014 held in Kuching Malaysia in November 2014 The 231 full papers presented were carefully reviewed and selected from 375 submissions The selected papers cover major topics of theoretical research empirical study and applications of neural information processing research The 3 volumes represent topical sections containing articles on cognitive science neural networks and learning systems theory and design applications kernel and statistical methods evolutionary computation and hybrid intelligent systems signal and image processing and special sessions intelligent systems for supporting decision making processes theories and applications cognitive robotics and learning systems for social network and web mining

Breast Imaging Hiroshi Fujita,Takeshi Hara,Chisako Muramatsu,2014-06-23 This book constitutes the refereed

proceedings of the 12th International Workshop on Breast Imaging IWDM 2014 held in Gifu City Japan in June July 2014 The 24 revised full papers and 73 revised poster papers presented together with 6 invited talks were carefully reviewed and selected from 122 submissions The papers are organized in topical sections on screening outcomes ultrasound breast density imaging physics CAD tomosynthesis and ICT and image processing *Digital Forensics and Watermarking* Christian Kraetzer, Yun-Qing Shi, Jana Dittmann, Hyoung Joong Kim, 2017-08-09 This book constitutes the refereed proceedings of the 16th International Workshop on Digital Forensics and Watermarking IWDW 2017 held in Magdeburg Germany in August 2017 The 30 papers presented in this volume were carefully reviewed and selected from 48 submissions The contributions are covering the state of the art theoretical and practical developments in the fields of digital watermarking steganography and steganalysis forensics and anti forensics visual cryptography and other multimedia related security issues Also included are the papers on two special sessions on biometric image tampering detection and on emerging threats of criminal use of information hiding usage scenarios and detection approaches **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 **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 *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

Pattern Recognition and Computer Vision Jian-Huang Lai, Cheng-Lin Liu, Xilin Chen, Jie Zhou, Tieniu Tan, Nanning Zheng, Hongbin Zha, 2018-11-02 The four volume set LNCS 11256 11257 11258 and 11259 constitutes the refereed proceedings of the First Chinese Conference on Pattern Recognition and Computer Vision PRCV 2018 held in Guangzhou China in November 2018 The 179 revised full papers presented were carefully reviewed and selected from 399 submissions The papers have been organized in the following topical sections Part I Biometrics Computer Vision Application Part II Deep Learning Part III Document Analysis Face Recognition and Analysis Feature Extraction and Selection Machine Learning Part IV Object Detection and Tracking Performance Evaluation and Database Remote Sensing

Energy Minimization Methods in Computer Vision and Pattern Recognition Marcello Pelillo, Edwin Hancock, 2018-03-23 This volume constitutes the refereed proceedings of the 11th International Conference on Energy Minimization Methods in Computer Vision and Pattern Recognition EMMCVPR 2017 held in Venice Italy in October November 2017 The 37 revised full papers were carefully reviewed and selected from 51 submissions The papers are organized in topical sections on Clustering and Quantum Methods Motion and Tracking Image Processing and Segmentation Color Shading and Reflectance of Light Propagation and Time evolution and Inference Labeling and Relaxation

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

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

Computational Modeling of Objects Presented in Images. Fundamentals, Methods, and Applications Reneta P.

Barneva,Valentin E. Brimkov,Piotr Kulczycki,João Manuel R. S. Tavares,2019-05-28 This book constitutes the refereed post conference proceedings of the 6th International Symposium on Computational Modeling of Objects Presented in Images CompIMAGE 2018 held in Cracow Poland in July 2018 The 16 revised full papers presented in this book were carefully reviewed and selected from 30 submissions The papers cover the following topics digital geometry digital tomography and methods and applications **Combinatorial Image Analysis** Reneta P. Barneva,Valentin E. Brimkov,Giorgio

Nordo,2023-01-01 This book constitutes the refereed proceedings of the 201st International Workshop on Combinatorial Image Analysis IWCIA 2022 held in Messina Italy in July 2022 The 20 full papers presented were carefully reviewed and selected from 24 submissions The papers are grouped into four sections The first one consists of one invited talk The second section contains seven papers devoted to digital geometry and topology The third part consists of six papers discussing picture languages The last part including six papers is devoted to various applications We believe that many of these papers would be of interest to a broader audience including researchers in scientific areas such as computer vision shape modeling pattern analysis and recognition and computer graphics **Analysis of Images, Social Networks and Texts** Dmitry I.

Ignatov,Mikhail Yu. Khachay,Valeri G. Labunets,Natalia Loukachevitch,Sergey I. Nikolenko,Alexander Panchenko,Andrey V. Savchenko,Konstantin Vorontsov,2017-02-15 This book constitutes the proceedings of the 5th International Conference on

Analysis of Images Social Networks and Texts AIST 2016 held in Yekaterinburg Russia in April 2016 The 23 full papers 7 short papers and 3 industrial papers were carefully reviewed and selected from 142 submissions The papers are organized in topical sections on machine learning and data analysis social networks natural language processing analysis of images and video

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Table of Contents Pixl Maths Paper November 2014

1. Understanding the eBook Pixl Maths Paper November 2014
 - The Rise of Digital Reading Pixl Maths Paper November 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Pixl Maths Paper November 2014
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Pixl Maths Paper November 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pixl Maths Paper November 2014
 - Personalized Recommendations
 - Pixl Maths Paper November 2014 User Reviews and Ratings
 - Pixl Maths Paper November 2014 and Bestseller Lists
5. Accessing Pixl Maths Paper November 2014 Free and Paid eBooks
 - Pixl Maths Paper November 2014 Public Domain eBooks
 - Pixl Maths Paper November 2014 eBook Subscription Services
 - Pixl Maths Paper November 2014 Budget-Friendly Options
6. Navigating Pixl Maths Paper November 2014 eBook Formats

- ePub, PDF, MOBI, and More
- Pixl Maths Paper November 2014 Compatibility with Devices
- Pixl Maths Paper November 2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pixl Maths Paper November 2014
 - Highlighting and Note-Taking Pixl Maths Paper November 2014
 - Interactive Elements Pixl Maths Paper November 2014
- 8. Staying Engaged with Pixl Maths Paper November 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pixl Maths Paper November 2014
- 9. Balancing eBooks and Physical Books Pixl Maths Paper November 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pixl Maths Paper November 2014
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Pixl Maths Paper November 2014
 - Setting Reading Goals Pixl Maths Paper November 2014
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Pixl Maths Paper November 2014
 - Fact-Checking eBook Content of Pixl Maths Paper November 2014
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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