GCSE Mathematics Foundation Tier

● Number ● Algebra ● Ratio, proportion and rate of change ● Geometry & measures ● Probability ● Statistics

Here is pretty much all the Foundation Tier content you could fit onto an A3 sheet of paper, including all the formulae you are expected to know for GCSE. An ✚ points to an illustrative example. The notes refer to the AQA subject content. Pi (π) is a math letter in the same family as p and q, but we use it to stand for 3.14159... don't take it into the examination!

BIDMAS

...or BODMAS. For the correct order of operations, take care when using a calculator.

1. Brackets
2. Indices (or Powers)
3. Division and Multiplication
4. 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 (add successive multiples)

✚ Multiples of 12 are: 12, 24, 36, ...

Prime number: an integer which has exactly two factors (1 and the number itself). Note: 1 is not a prime number.

HCF, LCM

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

Prime factors

Write a number as a product of its prime factors, and indices for repeated factors

✚ $126 = 2 \times 3^2 \times 7$

Powers and roots

Special indices for any value of x

$$x^0 = 1$$

$$x^{-n} = \frac{1}{x^n}$$

✚ $$x^{-2} = \frac{1}{x^2} = \frac{1}{x \times x}$$

Calculating with fractions

Adding or subtracting fractions: use a common denominator...

✚ $$\frac{1}{3} + \frac{1}{5} = \frac{5}{15} + \frac{3}{15} = \frac{8}{15}$$

Multiplying fractions: multiply numerators and denominators...

✚ $$\frac{1}{3} \times \frac{1}{5} = \frac{1}{15}$$

Dividing fractions: "flip" the second fraction, then multiply...

✚ $$\frac{1}{3} \div \frac{1}{5} = \frac{1}{3} \times \frac{5}{1} = \frac{5}{3}$$

Fractions, decimals, percentages

Fraction to decimal: numerator ÷ denominator

✚ $\frac{1}{8} = 1 \div 8 = 0.125$

Use place values to change decimals to fractions. Simplify where possible.

✚ $0.45 = \frac{45}{100} = \frac{9}{20}$

Learn the most frequently used ones:

$\frac{1}{2}$	$\frac{1}{3}$	$\frac{2}{3}$	$\frac{1}{4}$	$\frac{3}{4}$	$\frac{1}{5}$	$\frac{1}{8}$
0.5	0.333...	0.666...	0.25	0.75	0.2	0.125

Units

Look for the biggest square number factor of the number:

✚ $\sqrt{200} = \sqrt{100} \times \sqrt{2} = 10\sqrt{2}$

Standard form

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

Standard units

1 tonne = 1000 kilograms
1 kilogram = 1000 grams

1 kilometre = 1000 metres
1 metre = 100 centimetres
= 1000 millimetres
1 centimetre = 10 millimetres

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

Accuracy

Truncate: the number, then use a "decider digit" to round up or down.

Decimal places: use the decimal point

✚ 562.5683 to 1dp.
562.5 (< 6) = 562.57 to 2dp.

Significant figures: use the first non-zero digit.

✚ 562.5683 to 2sf.
5 (≥ 5) 683 = 560 to 2sf.
✚ 0.007735 to 3sf.
0.00773 (< 8) = 0.00773 to 3sf.

Error intervals

Find the range of numbers that will round to a given value:

✚ $x = 5.83$ (2 decimal places)
$5.825 \le x < 5.835$

✚ $y = 60$ (2 significant figures)
$55 \le y < 65$

Note use of ≤ and <, and that the last significant figure of each is 5

Algebraic notation

$$ab = a \times b$$
$$2y = y + y = y \times 2$$
$$a^2 = a \times a$$
$$a^3 = a \times a \times a$$
$$a^2b = a \times a \times b$$
$$\frac{a}{b} = a \div b$$

Expressions and formulae

An equation is true for some particular value of x

✚ $2x + 1 = 7$ is true only if $x = 3$

...but an identity is true for every value of x

✚ $(x + a)^2 = x^2 + 2ax + a^2$
(note the use of the symbol ≡)

Laws of indices

For any value n

$$a^n \times a^m = a^{n+m}$$
$$\frac{a^n}{a^m} = a^{n-m}$$
$$(a^n)^m = a^{nm}$$

✚ $$\frac{(3x)^2}{(2y)^3} = \frac{3x \times 3x}{2y \times 2y \times 2y} = \frac{3^2}{2^3} x^2 y^{-3}$$

Number grids

y = mx + c

Equation of straight line $y = mx + c$ m is the gradient, c is the y intercept

✚ Find the equation of the line that joins (0, 3) to (2, 11)

Find its gradient:

$$\frac{11 - 3}{2 - 0} = \frac{8}{2} = 4$$

...and its y intercept...

Points through (0, 3), so $c = 3$

Equation is $y = 4x + 3$

Parallel lines: gradients are equal

✚ $y = 2x + 3$ and $y = 2x - 1$ both have gradient 2 so are parallel.

Expanding brackets

$$a(b + c) = ab + ac$$

✚ $5(2x - 3y) = 5x - 15y$

✚ $$(x + a)(x + b) = x^2 + ax + bx + ab$$
$$(2x - 3)(x + 5)$$
$$= 2x^2 - 3x + 10x - 15$$
$$= 2x^2 + 7x - 15$$

Reverse of expanding is factorising: putting an expression into brackets.

Quadratics

Solve a quadratic by factorising.

✚ Solve $x^2 - 8x + 15 = 0$

Put into brackets (taking care with any negative numbers)...

$$(x - 3)(x - 5) = 0$$

...then either $x - 3 = 0$ so $x = 3$, or $x - 5 = 0$ so $x = 5$.

Difference of two squares

$$a^2 - b^2 = (a + b)(a - b)$$

✚ $x^2 - 25 = (x + 5)(x - 5)$

Simultaneous equations

✚ Solve $\begin{cases} 2x - 3y = 13 \\ 5x - 3y = 7 \end{cases}$

Multiply to match x terms or y or y

$$\begin{cases} 10x - 15y = 65 \\ 9x - 15y = 21 \end{cases}$$

Add or subtract to cancel...

$$10x - 9x = 65 - 21$$

Finally, substitute and solve...

$$2 \times 8 - 3x = 13, \text{ so } x = 3$$

Rearrange a formula

The subject of a formula is the term on its own. The rules that "balance" the formula to change its subject

✚ Make x the subject of

$$2x + 3y = z$$

Move subtract $3y$ from both sides...

$$2x + 3y - 3y = z - 3y$$

...then divide both sides by 2

$$x = \frac{z - 3y}{2}$$

Right angled triangles

Pythagoras' Theorem.
Links all three 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.

Trigonometry.
Links two sides and one angle.
SOH | CAH | TOA

$$\sin\theta = \frac{\text{opp}}{\text{hyp}} \quad \cos\theta = \frac{\text{adj}}{\text{hyp}} \quad \tan\theta = \frac{\text{opp}}{\text{adj}}$$

Use "2nd$F$" or "SHIFT" key to find a missing angle

Special values of sin, cos, tan
Learn (or be able to find without a calculator)...

$x°$	$\sin x°$	$\cos x°$	$\tan x°$
0	0	1	0
30	$\frac{1}{2}$	$\frac{\sqrt{3}}{2}$	$\frac{1}{\sqrt{3}}$
45	$\frac{1}{\sqrt{2}}$	$\frac{1}{\sqrt{2}}$	1
60	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	$\sqrt{3}$
90	1	0	

Areas and volumes

Area of triangle $= \frac{1}{2} \times$ base $\times$ height

Volume of cuboid = length × width × height

Area of trapezium $= \frac{1}{2}(a + b)h$

Circumference of circle $= \pi \times D$
Area of circle $= \pi \times r^2$

Arc length $= \frac{\theta}{360} \times \pi \times D$

Area of sector $= \frac{\theta}{360} \times \pi \times r^2$

Volume of cylinder = $\pi r^2 \times$ height

Volume of prism = area of cross section × length

Transformations

Reflection
- Line of reflection

Rotation
- Centre of rotation
- Angle of rotation
- Clockwise or anticlockwise

Enlargement
- Centre of enlargement
- Scale factor (SF) (If < 1 the shape will get smaller).

Translation
- Vector

Angle facts

Equal angles at parallel lines always use corresponding...

Angles on a straight line total 180°

Angles in a full turn total 360°

Interior angles in a triangle total 180°

Use this for the interior angles of any polygon...

...or 180° × (n − 2)

Exterior angles always total 360°

Averages

Mode: most frequently occurring
Median: put the data in numerical order, then choose the middle one
Mean = $\frac{\text{total of items of data}}{\text{number of items of data}}$

Frequency tables

Height (h cm)	Frequency
$150 < h \le 160$	12
$160 < h \le 170$	15
$170 < h \le 180$	8

Modal class: $150 < h \le 160$

Estimate mean: add a row for midpoint, and a row for midpoint × frequency

Height (h cm)	Frequency	Midpoint	Midpoint × Frequency
$150 < h \le 160$	12	155	1860
$160 < h \le 170$	15	165	2475
$170 < h \le 180$	8	175	1400
	35		5735

Estimate mean $= \frac{5735}{35} = 163.9$ cm

Inequalities

Triangular numbers

1st	2nd	3rd	4th	5th
1	3	6	10	15

Square numbers (n^2 = n × n)

1st	2nd	3rd	4th	5th
1	4	9	16	25

Cube numbers (n^3 = n × n × n)

1st	2nd	3rd	4th	5th
1	8	27	64	125

nth term of an arithmetic (linear) sequence is $an + d$

✚ sequence 5, 8, 11, 14, ... is
$3n + 2$ (always increase by 3)
first term is $3 \times 1 + 2 = 5$

Geometric sequence: multiply each term by a common ratio

✚ 3, 6, 12, 24, ... (ratio is 2)

Fibonacci sequence: make the next term by adding the previous two ...

✚ 1, 1, 2, 3, 5, 8, 13, 21, 34, ...

Inequalities

p = [illegible]

$p = 0$	impossible
$0 < p < 0.5$	unlikely
$p = 0.5$	evens
$0.5 < p < 1$	likely
$p = 1$	certain

Probability basics

Multiply for independent events

✚ P(3 on first and 5 on second)

$$\frac{1}{6} \times \frac{1}{6} = \frac{1}{36}$$

Add for mutually exclusive events

✚ P(3 or 4 on die)

$$\frac{1}{6} + \frac{1}{6} = \frac{2}{6} = \frac{1}{3}$$

Apply these rules to tree diagrams.

Parts of a circle

Direct proportion

Use a ratio for unequal sharing

✚ Divide £400 in the ratio 1 : 3 : 4
1 + 3 + 4 = 8, then £400 ÷ 8 = £50
1 × £50 = £200, 3 × £50 = £150
4 × £50 = £200 (check: £200 + £150 + £50 = £400 ✓)

Ratio and fractions

Link between ratios and fractions

✚ Share in girls to boys ratio 2 : 3

$\frac{2}{5}$ are boys, $\frac{3}{5}$ are girls.

Percentages

$$x \text{ percent of } n = \frac{x}{100} \times n$$

✚ Increase £50 by 20%.

$$\frac{120}{100} \times 50 = 1.20 \times 50 = £60.00$$

$£100 \times £0.80 = £73.60$

$$y \text{ as a percentage of } x = \frac{y}{x} \times 100\%$$

✚ The population of a town increases from 15000 to 16250. Find the percentage increase.

$$\frac{\text{increase}}{\text{original}} \times 100\% = \frac{1250}{15000} \times 100\% = 8.3\%$$

Reverse Percentages: $\frac{\text{new}}{\text{original}}$

Learn the most frequently used ones:

1	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{5}$	$\frac{1}{8}$	$\frac{1}{10}$
100%	50%	25%	20%	12.5%	10%

Speed, distance, time

$$\text{Speed} = \frac{\text{distance}}{\text{time}}$$

✚ A car travels 90 miles in 2 hours, 30 minutes. Find its average speed.
90 miles ÷ 2.5 hours = 36 mph

Correlation

Positive correlation

Negative correlation

Pixl Maths Paper June 2foundation

Christos Mousas,Hyewon Seo,Daniel Thalmann,Frederic Cordier

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Computer Animation and Social Agents Christos Mousas,Hyewon Seo,Daniel Thalmann,Frederic Cordier,2025-08-18 The LNCS 15915 constitutes the proceedings from the 38th International Conference on Computer Animation and Social Agents CASA 2025 held in Strasbourg France during June 2 4 2025 The 20 papers 17 from the main conference and 3 from the AniNex workshop presented were carefully reviewed and selected from 82 submissions These papers focus on various aspects of Computer Animation and Social Agents such as Motion Capture Retargeting Physics based Animation Vision based Techniques Behavioral Animation Facial Animation Image based Animation Virtual Humans Crowd Simulation AI based Animation Deep Learning Methods Virtual Humans and Avatars and 3D Physiological Humans **Scale Space and Variational Methods in Computer Vision** Arjan Kuijper,Kristian Bredies,Thomas Pock,Horst Bischof,2013-05-20 This book constitutes the refereed proceedings of the 4th International Conference on Scale Space Methods and Variational Methods in Computer Vision SSVM 2013 held in Schloss Seggau near Graz Austria in June 2013 The 42 revised full papers presented were carefully reviewed and selected 69 submissions The papers are organized in topical sections on image denoising and restoration image enhancement and texture synthesis optical flow and 3D reconstruction scale space and partial differential equations image and shape analysis and segmentation *Mathematical Reviews* ,1999 Graph-Based Representations in Pattern Recognition Donatello Conte,Jean-Yves Ramel,Pasquale Foggia,2019-06-10 This book constitutes the refereed proceedings of the 12th IAPR TC 15 International Workshop on Graph Based Representation in Pattern Recognition GbRPR 2019 held in Tours France in June 2019 The 22 full papers included in this volume together with an invited talk were carefully reviewed and selected from 28 submissions The papers discuss research results and applications at the intersection of pattern recognition image analysis and graph theory They cover topics such as graph edit distance graph matching machine learning for graph problems network and graph embedding spectral graph problems and parallel algorithms for graph problems *Outdoor and Large-Scale Real-World Scene Analysis* Frank Dellaert,Jan-Michael Frahm,Marc Pollefeys,Laura Leal-Taixé,Bodo Rosenhahn,2012-09-22 This book constitutes the thoroughly refereed post proceedings of the 15th International Workshop on Theoretic Foundations of Computer Vision held as a Dagstuhl Seminar in Dagstuhl Castle Germany in June July 2011 The 19 revised full papers presented were carefully reviewed and selected after a blind peer review process The topic of this Workshop was Outdoor and Large Scale Real World Scene Analysis which covers all aspects applications and open problems regarding the performance or design of computer vision algorithms capable of working in outdoor setups and or large scale environments Developing these methods is important for driver assistance city modeling and reconstruction virtual tourism telepresence and motion capture **Information Processing and Management of Uncertainty in Knowledge-Based Systems. Theory and Foundations** Jesús Medina,Manuel Ojeda-Aciego,José Luis Verdegay,David A. Pelta,Inma P. Cabrera,Bernadette Bouchon-Meunier,Ronald R. Yager,2018-05-30 This three volume set

CCIS 853 855 constitutes the proceedings of the 17th International Conference on Information Processing and Management of Uncertainty in Knowledge Based Systems IPMU 2017 held in C diz Spain in June 2018 The 193 revised full papers were carefully reviewed and selected from 383 submissions The papers are organized in topical sections on advances on explainable artificial intelligence aggregation operators fuzzy metrics and applications belief function theory and its applications current techniques to model process and describe time series discrete models and computational intelligence formal concept analysis and uncertainty fuzzy implication functions fuzzy logic and artificial intelligence problems fuzzy mathematical analysis and applications fuzzy methods in data mining and knowledge discovery fuzzy transforms theory and applications to data analysis and image processing imprecise probabilities foundations and applications mathematical fuzzy logic mathematical morphology measures of comparison and entropies for fuzzy sets and their extensions new trends in data aggregation pre aggregation functions and generalized forms of monotonicity rough and fuzzy similarity modelling tools soft computing for decision making in uncertainty soft computing in information retrieval and sentiment analysis tri partitions and uncertainty decision making modeling and applications logical methods in mining knowledge from big data metaheuristics and machine learning optimization models for modern analytics uncertainty in medicine uncertainty in Video Image Processing UVIP **Information Security and Cryptology** Chuan-Kun Wu,Moti Yung,Dongdai Lin,2012-10-20 This book constitutes the thoroughly refereed post conference proceedings of the 7th International Conference on Information Security and Cryptology Inscrypt 2011 held in Beijing China in November December 2011 The 24 revised full papers presented together with 2 invited talks were carefully reviewed and selected from 80 submissions The papers present research advances in the areas of information security cryptology and their applications Handbook of Visual Optics, Two-Volume Set Pablo Artal,2017-06-27 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 *Computer Vision* Honbin 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 **Selected Papers on Image Coding and Compression** Majid Rabbani,1992 **Efficient Algorithms for Global Optimization Methods in Computer Vision**

Andrés Bruhn,Thomas Pock,Xue-Cheng Tai,2014-04-01 This book constitutes the thoroughly refereed post conference proceedings of the International Dagstuhl Seminar on Efficient Algorithms for Global Optimization Methods in Computer Vision held in Dagstuhl Castle Germany in November 2011 The 8 revised full papers presented were carefully reviewed and selected by 12 lectures given at the seminar The seminar focused on the entire algorithmic development pipeline for global optimization problems in computer vision modelling mathematical analysis numerical solvers and parallelization In particular the goal of the seminar was to bring together researchers from all four fields to analyze and discuss the connections between the different stages of the algorithmic design pipeline **Numerical Analysis and Its Applications** Ivan Dimov,István Faragó,Lubin Vulkov,2013-10-01 This book constitutes thoroughly revised selected papers of the 5th International Conference on Numerical Analysis and Its Applications NAA 2012 held in Lozenetz Bulgaria in June 2012 The 65 revised papers presented were carefully reviewed and selected from various submissions The papers cover a broad area of topics of interest such as numerical approximation and computational geometry numerical linear algebra and numerical solution of transcendental equation numerical methods for differential equations numerical stochastics numerical modeling and high performance scientific computing Pattern Recognition Tieniu Tan,Xuelong Li,Xilin Chen,Jie Zhou,Jian Yang,Hong Cheng,2016-10-21 The two volume set CCIS 662 and CCIS 663 constitutes the refereed proceedings of the 7th Chinese Conference on Pattern Recognition CCPR 2016 held in Chengdu China in November 2016 The 121 revised papers presented in two volumes were carefully reviewed and selected from 199 submissions The papers are organized in topical sections on robotics computer vision basic theory of pattern recognition image and video processing speech and language emotion recognition **Pattern Recognition** Apostolos Antonacopoulos,Subhasis Chaudhuri,Rama Chellappa,Cheng-Lin Liu,Saumik Bhattacharya,Umapada Pal,2024-12-04 The multi volume set of LNCS books with volume numbers 15301 15333 constitutes the refereed proceedings of the 27th International Conference on Pattern Recognition ICPR 2024 held in Kolkata India during December 1 5 2024 The 963 papers presented in these proceedings were carefully reviewed and selected from a total of 2106 submissions They deal with topics such as Pattern Recognition Artificial Intelligence Machine Learning Computer Vision Robot Vision Machine Vision Image Processing Speech Processing Signal Processing Video Processing Biometrics Human Computer Interaction HCI Document Analysis Document Recognition Biomedical Imaging Bioinformatics *The Economist* ,2006 1997 IEEE Nuclear Science Symposium Orhan Nalcioglu,1998 **Applied Mechanics Reviews** ,1997 **IMACS '91, 13th World Congress on Computation and Applied Mathematics** Robert Vichnevetsky,1991 **Government Reports Announcements & Index** ,1984-08 **Scientific and Technical Aerospace Reports** ,1995

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