GCSE Mathematics Foundation Tier

Number · Algebra · Ratio, proportion and rates of change · Geometry & measures · Probability · Statistics

Here is pretty much all the Foundation Tier content we could fit onto an A3 sheet of paper, including all the formulae you are required to know for GCSE. An ✚ points to an illustrative example. The codes refer to the DfE subject content. Pin this to a wall, keep it on your desk, carry it in your bag, make notes on it (sorry, don't take it into the examination)...

BIDMAS (N3)
...or BIDMAS. Use the correct order of operations: take care when using a calculator.
- Brackets
- Indices (or pOwers)
- Division and Multiplication
- Addition and Subtraction

Types of number (N4)
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 (will continue indefinitely).
✚ 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 (N4)
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 (N4)
Write a number as a product of its prime factors; use indices for repeated factors.
✚ $720 = 5 \times 3^2 \times 2^4$

Powers and roots (N6, N7)
Special indices for any value a:
$$a^0 = 1$$
$$a^{-n} = \frac{1}{a^n}$$
✚ $3^{-4} = \frac{1}{3^4} = \frac{1}{81}$

Calculating with fractions (N2)
Adding or subtracting fractions: use a common denominator...
✚
Multiplying fractions: multiply numerators and denominators...
✚
Dividing fractions: "flip" the second fraction, then multiply...
✚

Fractions, decimals (N10)
Fraction is numerator ÷ denominator
✚ $\frac{3}{8} = 3 \div 8 = 0.375$
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:

$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{10}$	$\frac{1}{5}$	$\frac{3}{4}$
0.5	0.25	0.1	0.2	0.75

Surds (N8)
Look for the biggest square number factor of the number.
✚ $\sqrt{50} = \sqrt{25} \times \sqrt{2} = 5\sqrt{2}$

Standard form (N9)
Standard form numbers are of the form $a \times 10^n$ where $1 \le a < 10$ and n is an integer.

Standard units (N13)
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

Rounding (N15)
Truncate the number, then use a "decider digit" to round up or down.
Decimal places: use the decimal point.
✚ 542.3681 to 2dp
542.36|81 ≈ 542.37 to 2dp
Significant figures: use the first non-zero digit.
✚ 542.3681 to 2sf
54|2.3681 ≈ 540 to 2sf
✚ 0.007 039 to 2sf
0.0070|39 ≈ 0.0070 to 2sf

Error intervals (N15)
Find the range of numbers that will round to a given value.
✚ $x = 5.83$ (2 decimal places)
$5.825 \le x < 5.835$
✚ $y = 44$ (2 significant figures)
$43.5 \le y < 44.5$
Note use of ≤ and <, and that the last significant figure of each is 5.

Algebraic notation (A1)
$ab = a \times b$
$3y = y + y + y$
$a^2 = a \times a$
$a^3 = a \times a \times a$
$a^2b = a \times a \times b$
$\frac{a}{b} = a \div b$

Equations and identities (A3)
An equation is true for some particular value of x.
✚ $2x + 3 = 7$ is true if $x = 2$
...but an identity is true for every value of x.
✚ $(x + a)^2 \equiv x^2 + 2ax + a^2$
(note the use of the symbol ≡)

Laws of indices (A4)
For any value a:
$$a^x \times a^y = a^{x+y}$$
$$\frac{a^x}{a^y} = a^{x-y}$$
$$(a^x)^y = a^{xy}$$
✚ [illegible]

Standard graphs (A12)

y = mx + c (A9)
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...
Passes 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 (A4)
$$a(b + c) = ab + ac$$
✚ $5(2x - 3y) = 10x - 15y$
$(x + a)(x + b) = x^2 + ax + bx + ab$
✚ $(2x - 3)(x + 5)$
$= 2x^2 - 3x + 10x - 15$
$= 2x^2 + 7x - 15$
Reverse of expanding is factorising: putting an expression into brackets.

Quadratics (A18)
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 $x - 3 = 0$ or $x - 5 = 0$ so that $x = 3$ or $x = 5$.

Difference of two squares (A4)
$$a^2 - b^2 = (a + b)(a - b)$$
✚ $x^2 - 25 = (x + 5)(x - 5)$

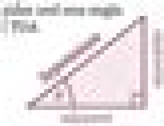
Simultaneous equations (A19)
✚ Solve $\begin{cases} 2x + 3y = 11 \\ 3x - 5y = 7 \end{cases}$
Multiply to match a term in x or y
$\begin{cases} 10x + 15y = 55 \\ 9x - 15y = 21 \end{cases}$
Add or subtract to cancel...
$19x = 76$, so $x = 4$
Finally, substitute and solve...
$2 \times 4 + 3y = 11$, so $y = 1$

Rearrange a formula (A5)
The subject of a formula is the term on its own. Use rules that "balance" the formula to change its subject.
✚ Make x the subject of $2x + 3y = z$
Here, subtract $3y$ from both sides...
$2x = z - 3y$
...then divide both sides by 2
$$x = \frac{z - 3y}{2}$$

Right angled triangles (G20, G21)
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



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

Use "2ndF" or "SHIFT" key to find a missing angle.

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	$\frac{1}{\sqrt{2}}$	$\frac{1}{\sqrt{2}}$	1
60	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	$\sqrt{3}$
90	1	0	

Area and volumes (G16, G17, G18, G23)
Area of triangle = $\frac{1}{2}$ × base × height
Volume of cuboid = length × width × height

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

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

Arc length = $\frac{\theta}{360} \times \pi \times D$
Volume of cylinder = πr^2 × height
Area of sector = $\frac{\theta}{360} \times \pi \times r^2$
Volume of prism = area of cross section × length

Transformations (G7, G24)
Reflection
- Line of reflection

Translation
- Vector

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

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

Angle facts (G3)
Know angles in parallel lines; always use correct terminology...
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...
Exterior angles always total 360°.

Alternate angles · Corresponding angles · ...= 180° × (n − 2)

Sequences (A24, A25)
Triangular numbers

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

Square numbers ($n^2 = n \times n$)

1^2	2^2	3^2	4^2	5^2
1	4	9	16	25

Cube numbers ($n^3 = n \times n \times n$)

1^3	2^3	3^3	4^3	5^3
1	8	27	64	125

nth term of an arithmetic (linear) sequence is $an + d$
✚ nth term of 5, 8, 11, 14, ... is $3n + 2$ (always increases by 3; first term is $3 \times 1 + 2 = 5$)
Geometric sequence: multiply each term by a constant ratio.
✚ 3, 6, 12, 24, ... (ratio is 2)
Fibonacci sequence: make the next term by adding the previous two...
✚ 2, 4, 6, 10, 16, 26, 42, ...

Probability (P3, P4)
$p = \frac{\text{number of favourable outcomes}}{\text{number of possible outcomes}}$

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

Probability rules (P8, P9)
Multiply for independent events.
✚ P(3 on dice and H on coin)
$$\frac{1}{6} \times \frac{1}{2} = \frac{1}{12}$$
Add for mutually exclusive events.
✚ P(3 or 4 on dice)
$$\frac{1}{6} + \frac{1}{6} = \frac{2}{6}$$
Apply these rules to tree diagrams.

Parts of a circle (G9)

Division using ratio (R5)
Use a ratio for unequal sharing.
✚ Divide £600 in the ratio 7 : 5
7 + 5 = 12, then £600 ÷ 12 = £50
7 × £50 = £350, 5 × £50 = £250
(check: £350 + £250 = £600 ✓)

Ratio and fractions (R8)
Link between ratios and fractions.
✚ Boys to girls in ratio 2 : 3
$\frac{2}{5}$ are boys, $\frac{3}{5}$ are girls.

Percentages (R9)
$$x \text{ percent of } y = \frac{x}{100} \times y$$
✚ Increase £58 by 26%
$\frac{26}{100} \times £58 = £15.08$
£58 + £15.08 = £73.08
$$x \text{ as a percentage of } y = \frac{x}{y} \times 100\%$$
✚ The population of a town increases from 3500 to 4620. Find the percentage increase.
$\frac{1120}{3500} \times 100\% = 32\%$
Note: fraction = $\frac{\text{increase}}{\text{original}}$
Learn the most frequently used ones:

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

Speed, distance, time (R11)
$$\text{Speed} = \frac{\text{distance}}{\text{time}}$$
✚ A car travels 90 miles in 1 hour 30 minutes. Find its average speed.
90 miles ÷ 1.5 hours = 60 mph

Averages (S4)
Mode: most frequently occurring.
Median: put the data in numerical order, then choose the middle one.
$$\text{Mean} = \frac{\text{total of items of data}}{\text{number of items of data}}$$

Correlation (S6)

Pixl Maths Predicted Paper November 2014 Answers

Richard Bailey

Pixl Maths Predicted Paper November 2014 Answers:

Pixl Maths Predicted Paper November 2014 Answers: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Pixl Maths Predicted Paper November 2014 Answers : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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