

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.
• $\frac{1}{2} \times \frac{1}{3} = \frac{1 \times 1}{2 \times 3} = \frac{1}{6}$

Working fractions 'top' the second fraction

Working fractions 'top' the second fraction, then multiply.
• $\frac{1}{2} \div \frac{1}{3} = \frac{1}{2} \times \frac{3}{1} = \frac{3}{2}$

Problems involving

Problems involving a - denominator
• $\frac{1}{2} \div \frac{1}{3} = \frac{1}{2} \times \frac{3}{1} = \frac{3}{2}$
The given values change directly or inversely, depending where possible.
• $a \propto b \Rightarrow \frac{a}{b} = \frac{1}{2}$

Least of the most frequently used ones

100	10	1	0.1	0.01	0.001
100	10	1	0.1	0.01	0.001

Algebra

Look for the biggest square number factor of the coefficient.
• $12x^2 = 4 \times 3 \times x^2 = 4x^2 \times 3x^2$

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 metre = 1000 millimetres
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.
• 102.1021 to 102
• 102.1021 to 103
• 102.1021 to 100
• 102.1021 to 1000

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)
 $55 \leq a < 56$

Area

Note use of $a \leq 5.55$ and that the last significant figure of a is 5.
• $a = 5.55$ (2 decimal places)
 $5.55 \leq a < 5.56$
• $a = 5.55$ (2 significant figures)
 $55 \leq a < 56$

Area

Area of a rectangle = length $\times$ width
• $10 \times 5 = 50$
Area of a triangle = $\frac{1}{2} \times$ base $\times$ height
• $\frac{1}{2} \times 10 \times 5 = 25$

Area

Area of a circle = πr^2
• $\pi \times 5^2 = 25\pi$
Area of a sector = $\frac{\theta}{360} \times \pi r^2$
• $\frac{90}{360} \times \pi \times 5^2 = \frac{25\pi}{4}$

Area

Area of a trapezium = $\frac{1}{2} \times$ (sum of parallel sides) $\times$ height
• $\frac{1}{2} \times (10 + 5) \times 4 = 30$

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Geometry & measures



Geometry & measures

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

Geometry & measures

Pythagoras' Theorem: In a right-angled triangle, the square of the hypotenuse is equal to the sum of the squares of the other two sides.
• $a^2 + b^2 = c^2$

Geometry & measures

Similar figures: Two figures are similar if their corresponding sides are in the same ratio.
• If a triangle has sides 3, 4, 5 and another has sides 6, 8, 10, they are similar with a scale factor of 2.

Geometry & measures

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Probability



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Probability of an event = $\frac{\text{Number of favourable outcomes}}{\text{Total number of outcomes}}$
• A bag contains 10 balls, 3 are red, 7 are blue. The probability of drawing a red ball is $\frac{3}{10}$.

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There is plenty more to the Foundation Tier content, so make the most of it! Use all the space on the page, including all the information you are provided to help you. Use the **+** symbol to show addition. The **+** symbol is also used to show the positive sign. The **-** symbol is used to show the negative sign. The **x** symbol is used to show multiplication. The **÷** symbol is used to show division. The **=** symbol is used to show equality. The **>** symbol is used to show 'greater than'. The **<** symbol is used to show 'less than'. The **\geq** symbol is used to show 'greater than or equal to'. The **\leq** symbol is used to show 'less than or equal to'. The **\neq** symbol is used to show 'not equal to'. The **\propto** symbol is used to show 'proportional to'. The **\frac{1}{2}** symbol is used to show 'half'. The **\frac{1}{3}** symbol is used to show 'one third'. The **\frac{1}{4}** symbol is used to show 'one quarter'. The **\frac{1}{5}** symbol is used to show 'one fifth'. The **\frac{1}{6}** symbol is used to show 'one sixth'. The **\frac{1}{7}** symbol is used to show 'one seventh'. The **\frac{1}{8}** symbol is used to show 'one eighth'. The **\frac{1}{9}** symbol is used to show 'one ninth'. The **\frac{1}{10}** symbol is used to show 'one tenth'. The **\frac{1}{11}** symbol is used to show 'one eleventh'. The **\frac{1}{12}** symbol is used to show 'one twelfth'. The **\frac{1}{13}** symbol is used to show 'one thirteenth'. The **\frac{1}{14}** symbol is used to show 'one fourteenth'. The **\frac{1}{15}** symbol is used to show 'one fifteenth'. The **\frac{1}{16}** symbol is used to show 'one sixteenth'. The **\frac{1}{17}** symbol is used to show 'one seventeenth'. The **\frac{1}{18}** symbol is used to show 'one eighteenth'. The **\frac{1}{19}** symbol is used to show 'one nineteenth'. The **\frac{1}{20}** symbol is used to show 'one twentieth'. The **\frac{1}{21}** symbol is used to show 'one twenty-first'. The **\frac{1}{22}** symbol is used to show 'one twenty-second'. The **\frac{1}{23}** symbol is used to show 'one twenty-third'. The **\frac{1}{24}** symbol is used to show 'one twenty-fourth'. The **\frac{1}{25}** symbol is used to show 'one twenty-fifth'. The **\frac{1}{26}** symbol is used to show 'one twenty-sixth'. The **\frac{1}{27}** symbol is used to show 'one twenty-seventh'. The **\frac{1}{28}** symbol is used to show 'one twenty-eighth'. The **\frac{1}{29}** symbol is used to show 'one twenty-ninth'. The **\frac{1}{30}** symbol is used to show 'one thirtieth'. The **\frac{1}{31}** symbol is used to show 'one thirty-first'. The **\frac{1}{32}** symbol is used to show 'one thirty-second'. The **\frac{1}{33}** symbol is used to show 'one thirty-third'. The **\frac{1}{34}** symbol is used to show 'one thirty-fourth'. The **\frac{1}{35}** symbol is used to show 'one thirty-fifth'. The **\frac{1}{36}** symbol is used to show 'one thirty-sixth'. The **\frac{1}{37}** symbol is used to show 'one thirty-seventh'. The **\frac{1}{38}** symbol is used to show 'one thirty-eighth'. The **\frac{1}{39}** symbol is used to show 'one thirty-ninth'. The **\frac{1}{40}** symbol is used to show 'one fortieth'. The **\frac{1}{41}** symbol is used to show 'one forty-first'. The **\frac{1}{42}** symbol is used to show 'one forty-second'. The **\frac{1}{43}** symbol is used to show 'one forty-third'. The **\frac{1}{44}** symbol is used to show 'one forty-fourth'. The **\frac{1}{45}** symbol is used to show 'one forty-fifth'. The **\frac{1}{46}** symbol is used to show 'one forty-sixth'. The **\frac{1}{47}** symbol is used to show 'one forty-seventh'. The **\frac{1}{48}** symbol is used to show 'one forty-eighth'. The **\frac{1}{49}** symbol is used to show 'one forty-ninth'. The **\frac{1}{50}** symbol is used to show 'one fiftieth'. The **\frac{1}{51}** symbol is used to show 'one fifty-first'. The **\frac{1}{52}** symbol is used to show 'one fifty-second'. The **\frac{1}{53}** symbol is used to show 'one fifty-third'. The **\frac{1}{54}** symbol is used to show 'one fifty-fourth'. The **\frac{1}{55}** symbol is used to show 'one fifty-fifth'. The **\frac{1}{56}** symbol is used to show 'one fifty-sixth'. The **\frac{1}{57}** symbol is used to show 'one fifty-seventh'. The **\frac{1}{58}** symbol is used to show 'one fifty-eighth'. The **\frac{1}{59}** symbol is used to show 'one fifty-ninth'. The **\frac{1}{60}** symbol is used to show 'one sixtieth'. The **\frac{1}{61}** symbol is used to show 'one sixty-first'. The **\frac{1}{62}** symbol is used to show 'one sixty-second'. The **\frac{1}{63}** symbol is used to show 'one sixty-third'. The **\frac{1}{64}** symbol is used to show 'one sixty-fourth'. The **\frac{1}{65}** symbol is used to show 'one sixty-fifth'. The **\frac{1}{66}** symbol is used to show 'one sixty-sixth'. The **\frac{1}{67}** symbol is used to show 'one sixty-seventh'. The **\frac{1}{68}** symbol is used to show 'one sixty-eighth'. The **\frac{1}{69}** symbol is used to show 'one sixty-ninth'. The **\frac{1}{70}** symbol is used to show 'one seventieth'. The **\frac{1}{71}** symbol is used to show 'one seventy-first'. The **\frac{1}{72}** symbol is used to show 'one seventy-second'. The **\frac{1}{73}** symbol is used to show 'one seventy-third'. The **\frac{1}{74}** symbol is used to show 'one seventy-fourth'. The **\frac{1}{75}** symbol is used to show 'one seventy-fifth'. The **\frac{1}{76}** symbol is used to show 'one seventy-sixth'. The **\frac{1}{77}** symbol is used to show 'one seventy-seventh'. The **\frac{1}{78}** symbol is used to show 'one seventy-eighth'. The **\frac{1}{79}** symbol is used to show 'one seventy-ninth'. The **\frac{1}{80}** symbol is used to show 'one eightieth'. The **\frac{1}{81}** symbol is used to show 'one eighty-first'. The **\frac{1}{82}** symbol is used to show 'one eighty-second'. The **\frac{1}{83}** symbol is used to show 'one eighty-third'. The **\frac{1}{84}** symbol is used to show 'one eighty-fourth'. The **\frac{1}{85}** symbol is used to show 'one eighty-fifth'. The **\frac{1}{86}** symbol is used to show 'one eighty-sixth'. The **\frac{1}{87}** symbol is used to show 'one eighty-seventh'. The **\frac{1}{88}** symbol is used to show 'one eighty-eighth'. The **\frac{1}{89}** symbol is used to show 'one eighty-ninth'. The **\frac{1}{90}** symbol is used to show 'one ninetieth'. The **\frac{1}{91}** symbol is used to show 'one ninety-first'. The **\frac{1}{92}** symbol is used to show 'one ninety-second'. The **\frac{1}{93}** symbol is used to show 'one ninety-third'. The **\frac{1}{94}** symbol is used to show 'one ninety-fourth'. The **\frac{1}{95}** symbol is used to show 'one ninety-fifth'. The **\frac{1}{96}** symbol is used to show 'one ninety-sixth'. The **\frac{1}{97}** symbol is used to show 'one ninety-seventh'. The **\frac{1}{98}** symbol is used to show 'one ninety-eighth'. The **\frac{1}{99}** symbol is used to show 'one ninety-ninth'. The **\frac{1}{100}** symbol is used to show 'one hundredth'. The **\frac{1}{101}** symbol is used to show 'one hundred-first'. The **\frac{1}{102}** symbol is used to show 'one hundred-second'. The **\frac{1}{103}** symbol is used to show 'one hundred-third'. The **\frac{1}{104}** symbol is used to show 'one hundred-fourth'. The **\frac{1}{105}** symbol is used to show 'one hundred-fifth'. The **\frac{1}{106}** symbol is used to show 'one hundred-sixth'. The **\frac{1}{107}** symbol is used to show 'one hundred-seventh'. The **\frac{1}{108}** symbol is used to show 'one hundred-eighth'. The **\frac{1}{109}** symbol is used to show 'one hundred-ninth'. The **\frac{1}{110}** symbol is used to show 'one hundred-tenth'. The **\frac{1}{111}** symbol is used to show 'one hundred-eleventh'. The **\frac{1}{112}** symbol is used to show 'one hundred-twelfth'. The **\frac{1}{113}** symbol is used to show 'one hundred-thirteenth'. The **\frac{1}{114}** symbol is used to show 'one hundred-fourteenth'. The **\frac{1}{115}** symbol is used to show 'one hundred-fifteenth'. The **\frac{1}{116}** symbol is used to show 'one hundred-sixteenth'. The **\frac{1}{117}** symbol is used to show 'one hundred-seventeenth'. The **\frac{1}{118}** symbol is used to show 'one hundred-eighteenth'. The **\frac{1}{119}** symbol is used to show 'one hundred-nineteenth'. The **\frac{1}{120}** symbol is used to show 'one hundred-twentieth'. The **\frac{1}{121}** symbol is used to show 'one hundred-twenty-first'. The **\frac{1}{122}** symbol is used to show 'one hundred-twenty-second'. The **\frac{1}{123}** symbol is used to show 'one hundred-twenty-third'. The **\frac{1}{124}** symbol is used to show 'one hundred-twenty-fourth'. The **\frac{1}{125}** symbol is used to show 'one hundred-twenty-fifth'. The **\frac{1}{126}** symbol is used to show 'one hundred-twenty-sixth'. The **\frac{1}{127}** symbol is used to show 'one hundred-twenty-seventh'. The **\frac{1}{128}** symbol is used to show 'one hundred-twenty-eighth'. The **\frac{1}{129}** symbol is used to show 'one hundred-twenty-ninth'. The **\frac{1}{130}** symbol is used to show 'one hundred-thirtieth'. The **\frac{1}{131}** symbol is used to show 'one hundred-thirty-first'. The **\frac{1}{132}** symbol is used to show 'one hundred-thirty-second'. The **\frac{1}{133}** symbol is used to show 'one hundred-thirty-third'. The **\frac{1}{134}** symbol is used to show 'one hundred-thirty-fourth'. The **\frac{1}{135}** symbol is used to show 'one hundred-thirty-fifth'. The **\frac{1}{136}** symbol is used to show 'one hundred-thirty-sixth'. The **\frac{1}{137}** symbol is used to show 'one hundred-thirty-seventh'. 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The **\frac{1}{164}** symbol is used to show 'one hundred-sixty-fourth'. The **\frac{1}{165}** symbol is used to show 'one hundred-sixty-fifth'. The **\frac{1}{166}** symbol is used to show 'one hundred-sixty-sixth'. The **\frac{1}{167}** symbol is used to show 'one hundred-sixty-seventh'. The **\frac{1}{168}** symbol is used to show 'one hundred-sixty-eighth'. The **\frac{1}{169}** symbol is used to show 'one hundred-sixty-ninth'. The **\frac{1}{170}** symbol is used to show 'one hundred-seventieth'. The **\frac{1}{171}** symbol is used to show 'one hundred-seventy-first'. The **\frac{1}{172}** symbol is used to show 'one hundred-seventy-second'. The **\frac{1}{173}** symbol is used to show 'one hundred-seventy-third'. The **\frac{1}{174}** symbol is used to show 'one hundred-seventy-fourth'. The **\frac{1}{175}** symbol is used to show 'one hundred-seventy-fifth'. The **\frac{1}{176}** symbol is used to show 'one hundred-seventy-sixth'. The **\frac{1}{177}** symbol is used to show 'one hundred-seventy-seventh'. The **\frac{1}{178}** symbol is used to show 'one hundred-seventy-eighth'. The **\frac{1}{179}** symbol is used to show 'one hundred-seventy-ninth'. The **\frac{1}{180}** symbol is used to show 'one hundred-eightieth'. The **\frac{1}{181}** symbol is used to show 'one hundred-eighty-first'. The **\frac{1}{182}** symbol is used to show 'one hundred-eighty-second'. The **\frac{1}{183}** symbol is used to show 'one hundred-eighty-third'. The **\frac{1}{184}** symbol is used to show 'one hundred-eighty-fourth'. The **\frac{1}{185}** symbol is used to show 'one hundred-eighty-fifth'. The **\frac{1}{186}** symbol is used to show 'one hundred-eighty-sixth'. The **\frac{1}{187}** symbol is used to show 'one hundred-eighty-seventh'. The **\frac{1}{188}** symbol is used to show 'one hundred-eighty-eighth'. The **\frac{1}{189}** symbol is used to show 'one hundred-eighty-ninth'. The **\frac{1}{190}** symbol is used to show 'one hundred-ninetieth'. The **\frac{1}{191}** symbol is used to show 'one hundred-ninety-first'. The

Pixl Maths Paper June 2mark Scheme

KJ Lindholm-Leary



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Table of Contents Pixl Maths Paper June 2mark Scheme

1. Understanding the eBook Pixl Maths Paper June 2mark Scheme
 - The Rise of Digital Reading Pixl Maths Paper June 2mark Scheme
 - Advantages of eBooks Over Traditional Books
2. Identifying Pixl Maths Paper June 2mark Scheme
 - 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 June 2mark Scheme
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pixl Maths Paper June 2mark Scheme
 - Personalized Recommendations
 - Pixl Maths Paper June 2mark Scheme User Reviews and Ratings
 - Pixl Maths Paper June 2mark Scheme and Bestseller Lists
5. Accessing Pixl Maths Paper June 2mark Scheme Free and Paid eBooks
 - Pixl Maths Paper June 2mark Scheme Public Domain eBooks

- Pixl Maths Paper June 2mark Scheme eBook Subscription Services
- Pixl Maths Paper June 2mark Scheme Budget-Friendly Options
- 6. Navigating Pixl Maths Paper June 2mark Scheme eBook Formats
 - ePub, PDF, MOBI, and More
 - Pixl Maths Paper June 2mark Scheme Compatibility with Devices
 - Pixl Maths Paper June 2mark Scheme Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pixl Maths Paper June 2mark Scheme
 - Highlighting and Note-Taking Pixl Maths Paper June 2mark Scheme
 - Interactive Elements Pixl Maths Paper June 2mark Scheme
- 8. Staying Engaged with Pixl Maths Paper June 2mark Scheme
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pixl Maths Paper June 2mark Scheme
- 9. Balancing eBooks and Physical Books Pixl Maths Paper June 2mark Scheme
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pixl Maths Paper June 2mark Scheme
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Pixl Maths Paper June 2mark Scheme
 - Setting Reading Goals Pixl Maths Paper June 2mark Scheme
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Pixl Maths Paper June 2mark Scheme
 - Fact-Checking eBook Content of Pixl Maths Paper June 2mark Scheme
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
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