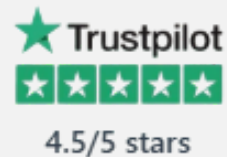


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MATHS GROWTH GURUS

MODULE -1 CALCULATE PERIMETER AND AREA OF POLYGONS, EXPLORE TRANSFORMATIONS, AND CONSTRUCT TRIANGLES AND QUADRILATERALS..

PERIMETER AND AREA

- Securing understanding of perimeter and area
- Finding the perimeter of polygons
- Calculating missing lengths with perimeter of polygons
- Perimeter with composite rectilinear shapes
- Using the formula for the area of a triangle
- Area of composite rectilinear shapes
- Calculating missing side lengths from the area of a trapezium



TRANSFORMATIONS

- Checking understanding of basic transformations
- Describing a translation
- Describing a rotation's direction and size
- Understanding the centre of rotation
- Describing a reflection
- Enlarging objects
- Problem solving with transformations



MATHS GROWTH GURUS

MODULE -1 CALCULATE PERIMETER AND AREA OF POLYGONS, EXPLORE TRANSFORMATIONS, AND CONSTRUCT TRIANGLES AND QUADRILATERALS..

CONSTRUCTING TRIANGLES AND QUADRILATERALS

- Exploring circles
- Constructing triangles
- Quadrilaterals in circles
- Constructing quadrilaterals



MATHS GROWTH GURUS

MODULE -2 EXPLORE SURFACE AREA AND VOLUME OF CUBES,
CUBOIDS, PRISMS, PYRAMIDS, AND CYLINDERS.

SHAPES

- Cube and Cuboids
- Prisms and Traingular prisms
- Pyramids and Cylinder



MATHS GROWTH GURUS

MODULE -3 UNDERSTAND AND SOLVE PROBLEMS USING EXPRESSIONS, EQUATIONS, AND ALGEBRAIC NOTATION; PLOT COORDINATES, INCLUDING NON-INTEGERS, AND EXPLORE RELATIONSHIPS.

EXPRESSIONS AND EQUATIONS

- Securing understanding of expressions and equations
- Algebraic notation
- Representing an unknown or variable
- Simplifying by collecting like terms
- Highest common factor with algebraic terms
- Factorising expressions
- Problem solving with expressions and equations



PLOTTING COORDINATES

- Checking understanding of plotting coordinates
- Securing understanding of plotting coordinates
- Plotting non-integer coordinates
- Plotting coordinates generated from a rule
- Plotting coordinates generated from a rule using technology
- Plotting a relationship
- Problem solving with plotting coordinates



MATHS GROWTH GURUS

MODULE -4 UNDERSTAND PLACE VALUE IN INTEGERS, DECIMALS, AND METRIC UNITS, INCLUDING EXPONENTIAL AND FRACTIONAL VALUES.

PLACE VALUE

- Checking understanding of place value in integers
- Securing understanding of place value in integers
- Exponential and fractional column headings
- Place value in decimals
- Securing understanding of place value in metric units
- Checking understanding of ordering and comparing numbers
- Problem solving with place value



PROPERTIES OF NUMBER: FACTORS, MULTIPLES, SQUARES AND CUBES

- Securing understanding of factors, multiples, squares and cubes
- Divisibility tests for 2 and 3
- Divisibility tests 6 and 9
- Divisibility tests for 5 and 10
- Divisibility tests for 4 and 8
- Square and cube numbers
- Square and cube roots
- Powers and roots using a calculator
- Checking understanding of prime numbers
- Calculating integers from their prime factor expressions
- Highest common factor
- Least Common Multiple
- HCF or LCM
- Problem solving with factors, multiples, squares and cubes



MATHS GROWTH GURUS

MODULE -4 UNDERSTAND PLACE VALUE IN INTEGERS, DECIMALS, AND METRIC UNITS, INCLUDING EXPONENTIAL AND FRACTIONAL VALUES.

ARITHMETIC PROCEDURES WITH INTEGERS AND DECIMALS

- Securing understanding of arithmetic procedures with integers and decimals
- Addition of positive and negative integers
- Subtraction of positive and negative integers
- Checking and securing understanding of written addition and subtraction strategies
- Simplifying multiplication and division using multiples of 10
- Multiplying with decimals
- Dividing with decimals
- Priority of operations with positive and negative integers and decimals
- Using the associative, commutative and distributive laws together
- Problem solving with integers and decimals



MATHS GROWTH GURUS

MODULE -4 UNDERSTAND PLACE VALUE IN INTEGERS, DECIMALS, AND METRIC UNITS, INCLUDING EXPONENTIAL AND FRACTIONAL VALUES.

COMPARING AND ORDERING FRACTIONS AND DECIMALS (POSITIVE AND NEGATIVE)

- Checking and securing understanding of fractions
- Checking and securing converting mixed numbers to improper fractions
- Converting fractions to recurring decimals
- Ordering negative integers
- Ordering decimals
- Ordering fractions by way of a common denominator
- Ordering positive and negative fractions and decimals
- Problem solving with fractions and decimals



ARITHMETIC PROCEDURES WITH FRACTIONS

- Securing understanding of addition and subtraction with fractions
- Securing understanding of multiplication with fractions
- Deepening understanding of multiplication with fractions
- Checking and securing dividing a fraction by a whole number
- Dividing a fraction by a fraction
- Priority of operations with positive and negative integers, decimals and fractions
- Problem solving with arithmetic procedures involving fractions



MATHS GROWTH GURUS

MODULE -4 UNDERSTAND PLACE VALUE IN INTEGERS, DECIMALS, AND METRIC UNITS, INCLUDING EXPONENTIAL AND FRACTIONAL VALUES.

UNDERSTANDING MULTIPLICATIVE RELATIONSHIPS: FRACTIONS AND RATIO

- Checking understanding of multiplicative relationships
- Multiplicative relationships in context
- Expressing multiplicative relationships as ratios and fractions
- Equivalent multiplicative relationships
- Ratio language and notation
- Checking and securing finding a fraction of a given amount
- Expressing one number as a fraction of another
- Determining the whole
- Determining the part
- Describing exchange rates with ratio
- Describing more conversions with ratio
- Problem solving with fractions and ratios



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