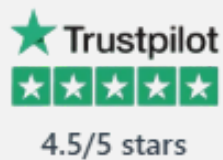


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MATHS HORIZON SEEKERS

MODULE -1 ROUND AND ESTIMATE USING DECIMALS, SIGNIFICANT FIGURES, AND NUMBER LINES; UNDERSTAND PERCENTAGES AND SOLVE PROBLEMS INVOLVING PERCENTAGE CHANGE AND PROPORTIONAL RELATIONSHIPS.

ESTIMATION AND ROUNDING

- Checking understanding of rounding
- Rounding to three decimal places
- Rounding decimals to significant figures
- Problem solving with estimation and rounding



UNDERSTANDING MULTIPLICATIVE RELATIONSHIPS: PERCENTAGES AND PROPORTIONALITY

- Checking understanding of percentages
- Multiplicative relationships presented graphically
- Expressing one number as a percentage of another
- Increase and Decrease by a percentage
- Problem solving with percentages and proportionality



ACCURACY AND ESTIMATION

- Rounding numbers using a number line
- Rounding from a calculator: Approximating
- Solving Problems with Rounding
- Estimation



MATHS HORIZON SEEKERS

MODULE -1 SOLVE PROBLEMS ON PERIMETER, AREA, SURFACE AREA, VOLUME, AND PYTHAGORAS' THEOREM; EXPLORE ANGLES, POLYGONS, AND FORMAL GEOMETRIC CONSTRUCTIONS.

PERIMETER, AREA AND VOLUME

- Checking understanding of perimeter
- Checking understanding of area
- Circumference and area of a circle
- Area and Perimeter of composite shapes
- Surface area of cuboids, prisms and cylinders
- Volume of prisms and cylinders
- Problem solving with perimeter, area and volume



INTRODUCTION TO PYTHAGORAS THEOREM

- Introduction to Pythagoras Theorem
- Using Pythagoras theorem
- Finding the length of a shorter side



MATHS

HORIZON SEEKERS

MODULE -1 SOLVE PROBLEMS ON PERIMETER, AREA, SURFACE AREA, VOLUME, AND PYTHAGORAS' THEOREM; EXPLORE ANGLES, POLYGONS, AND FORMAL GEOMETRIC CONSTRUCTIONS.

GEOMETRICAL PROPERTIES: POLYGONS

- Securing understanding of angles from KS2
- Formal angle notation
- Angles on parallel lines traversed by a straight line
- Using the sum of the interior angles of a triangle
- Deriving the sum of interior angles in multiple ways
- Interior and exterior angles of regular polygons
- Corresponding angles
- Alternate angles
- Co-interior angles
- Missing angles
- Problem solving with polygons



CONSTRUCTIONS

- Checking compass skills
- Understanding constructing a circle
- Bisecting an angle
- Perpendicular bisector of a line segment
- Constructing triangles
- Constructing rhombi
- Diagonals of a rhombus
- Perpendicular to a given line through a given point
- Problem solving with constructions



MATHS HORIZON SEEKERS

MODULE -2 INTERPRET AND CONSTRUCT BAR CHARTS, PICTOGRAMS, PIE CHARTS, AND SCATTER GRAPHS TO SOLVE DATA-BASED PROBLEMS.

GRAPHICAL REPRESENTATIONS OF DATA

- Checking understanding of pictograms and bar charts
- Securing constructing bar charts by hand
- Constructing and interpreting pie charts
- Constructing and interpreting scatter graphs
- Problem solving with graphical representations of data



NUMERICAL SUMMARIES OF DATA

- Checking understanding of the mean
- Calculating the mean
- Calculating the median
- Understanding the mode
- Analysing different statistical representations
- Correlation



MATHS HORIZON SEEKERS

MODULE -3 UNDERSTAND SUBSTITUTION, ALGEBRAIC OPERATIONS, EXPANDING BRACKETS, AND INDEX LAWS; WORK WITH SEQUENCES, COORDINATES, AND SOLVE MULTI-STEP LINEAR EQUATIONS.

SEQUENCES

- Checking understanding of sequences
- Generating a sequence using a term-to-term rule
- Arithmetic sequences
- Finding the n th term
- Representing sequences graphically
- Problem solving with sequences



GRAPHICAL REPRESENTATIONS OF LINEAR EQUATIONS

- Checking and securing understanding of plotting coordinates
- Checking and securing understanding of plotting coordinates with technology
- Defining features of linear relationships
- Positive rate of change from a graph
- Negative rate of change from a graph
- Finding the equation of the line $y = mx + c$
- Finding the equation of the line $ay + bx + c = 0$
- Problem solving with graphing linear relationships



MATHS HORIZON SEEKERS

MODULE -3 UNDERSTAND SUBSTITUTION, ALGEBRAIC OPERATIONS, EXPANDING BRACKETS, AND INDEX LAWS; WORK WITH SEQUENCES, COORDINATES, AND SOLVE MULTI-STEP LINEAR EQUATIONS.

SOLVING LINEAR EQUATIONS

- Checking understanding of algebraic notation
- Different types of equations
- Solving simple linear equations with an additive step
- Solving simple linear equations with a multiplicative step
- Solving complex linear equations
- Problem solving with linear equations



MATHS HORIZON SEEKERS

MODULE -4 SIMPLIFY RATIOS, DIVIDE QUANTITIES, USE RATES AND THE UNITARY METHOD, AND SOLVE PROBLEMS USING PROPORTIONAL AND INVERSE RELATIONSHIPS WITH GRAPHS.

RATIOS AND RATES

- Introducing and simplifying ratios
- Dividing a quantity in a given ratio
- Introducing rates
- Ratios and rates and unitary method



DIRECT AND INDIRECT PROPORTION

- Looking at proportional relationships
- Graphs of proportional relationships
- Inverse proportion in context
- Graphs of inverse proportion problems
- Direct or inverse proportion?



MATHS HORIZON SEEKERS

MODULE -5 UNDERSTAND AND APPLY THE CONDITIONS FOR TRIANGLE SIMILARITY USING ANGLE–ANGLE RELATIONSHIPS AND PROPORTIONAL SIDE LENGTHS. USE SIMILAR TRIANGLES TO CALCULATE UNKNOWN LENGTHS AND SOLVE REAL-WORLD MEASUREMENT PROBLEMS ACCURATELY

SIMILAR TRIANGLES

- Defining Similar Triangles
- Angle–Angle Similarity
- Proportional Side Lengths
- Using Similar Triangles to Find Lengths
- Solving Real-World Problems



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