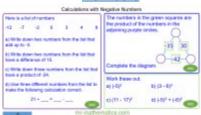
## Aiming for Grades 1 to 3

#### **Order of Operations**



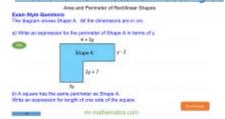
#### Calculations with Negative Numbers



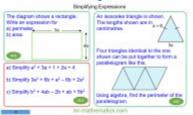
# Converting Between Metric and Imperial Units



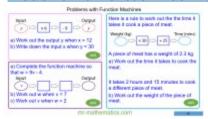
#### Area and Perimeter of Rectangles



#### **Collecting Like Terms**



#### **Problems with Function Machines**



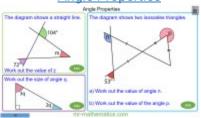
#### Algebraic Products and Brackets



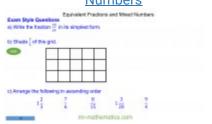
#### **Highest Common Factors**



#### **Angle Properties**



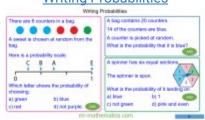
#### Equivalent Fractions and Mixed Numbers



#### **Powers and Roots**



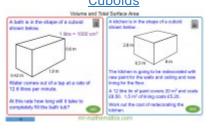
#### **Writing Probabilities**



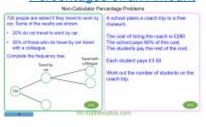
# Multiples and Lowest Common Multiple



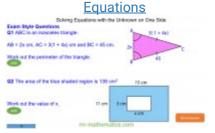
# Volume and Surface Area of Cuboids



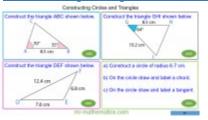
#### Percentages of an Amount



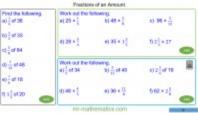
## Balance Method to Solve Two-Step



#### **Constructing Triangles and Circles**

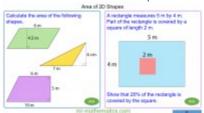


#### Fractions of an Amount



Best Value Ratio Problems

#### Area of 2D Shapes

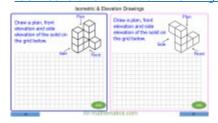


# Fractions, Decimals and Percentages

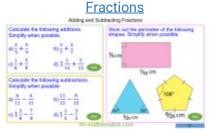




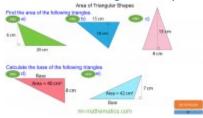
#### **Isometric and Elevation Drawings**



## Adding and Subtracting with



#### **Area of Triangular Shapes**



#### **Primes and Prime Factors**



#### **Multiplying with Decimals**



#### **Averages and Range**



#### **Direct Proportion**



#### Pie Charts



#### Percentage Changes



#### Rounding and Estimates



## Aiming for Grades 4 to 5

#### **Multiplication with Decimals**



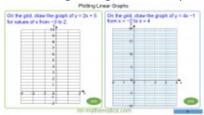
#### **Division with Decimals**



# Written Methods to Solve Worded Problems



#### Plotting Straight Line Graphs



#### Rules of Indices



#### **Problems with Ratios**



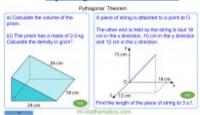
#### Substitution into Formulae



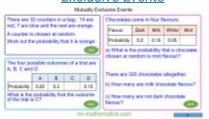
#### **Factorising Expressions**



#### Pythagoras' Theorem



# Expectation and Mutually Exclusive Events



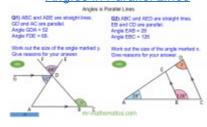
#### Nth Term of Arithmetic Sequences



#### Averages from a Grouped Frequency Table



#### Angles in Parallel Lines



## Problems with Proportional Reasoning



#### Prime Factors, HCF and LCM



#### **Constructing Loci**



#### **Density and Pressure**



#### **Enlarging Shapes on a Grid**



#### **Reverse Percentages**



#### Writing Numbers in Standard Form



# Problems with Simultaneous Equations



# Performing and Describing Transformations



#### Venn Diagrams and Set Notation



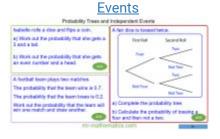
#### Adding and Subtracting with



#### Calculations with Standard Form



#### Probability Trees and Independent



#### Compound Percentage Changes



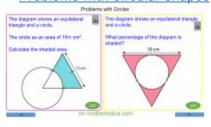
#### **Equation of Straight Line Graphs**



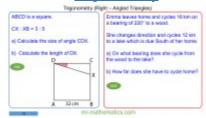
#### Multiplying and Dividing with Fractions



#### **Problems with Circular Shapes**



#### **Trigonometry**



## Aiming for Grades 5 to 6

## Multiplication with Decimal



#### **Division with Decimal Numbers**



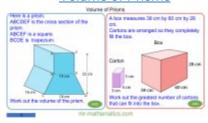
# Performing and Describing Transformations



# Interior and Exterior Angles of Polygons



#### **Volume of Prisms**



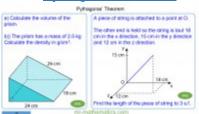
#### Writing Numbers in Standard Form



#### **Exchange Rates**



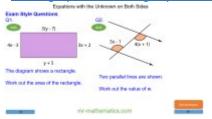
#### Pythagoras' Theorem



#### Scatter Graphs and Correlation



#### Setting up and Solving Equations



#### Setting up and Solving Inequalities



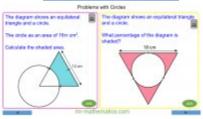
#### Angles in Parallel Lines



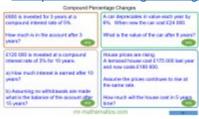
### Sharing to a Ratio



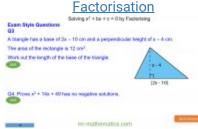
#### **Problems with Circles**



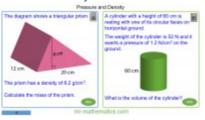
#### Compound Percentage Change



## Solving Quadratics by



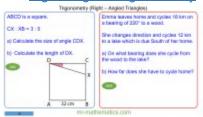
#### **Density and Pressure**



#### **Linear Simultaneous Equations**



#### Right-Angled Trigonometry



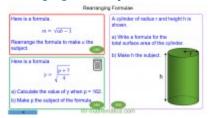


Sectors and their Formulae

## Reverse Percentages



#### Changing the Subject of a Formula



#### **Equations with Fractions**



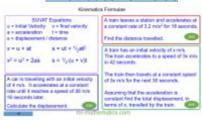
#### Rules of Indices



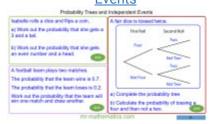
#### Calculations with Standard Form



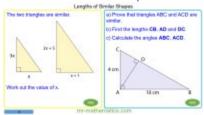
#### Kinematics Formulae



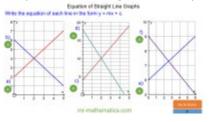
#### **Probability Trees and Independent Events**



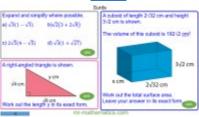
#### Similar Shapes



#### **Equation of Straight Line Graphs**



#### Surds



#### Nth Term of Linear Sequences

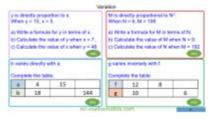


## Aiming for Grades 7 to 9

#### <u>Limits of Accuracy and Error</u> <u>Intervals</u>

# Birtle down the error internal for a when the following are measured to the given level of accountry. ### 124 (1.4 p.) ### 125 (1.4 p.)

#### **Variation**



#### Similarity



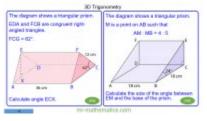
#### <u>Drawing and Interpreting</u> <u>Histograms</u>



# Indices with Fractional and Negative Powers



#### **3D Trigonometry**



#### **Conditional Probability**



#### Completing the Square



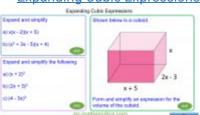
## Functions and Composite Functions



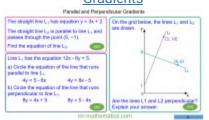
#### Sine and Area Rules



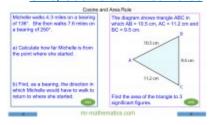
#### **Expanding Cubic Expressions**



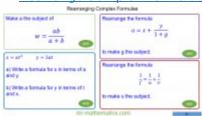
#### Parallel and Perpendicular Gradients



#### Sine, Cosine and Area Rules



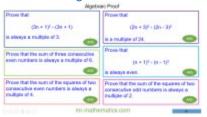
#### Rearrange Complex Formulae



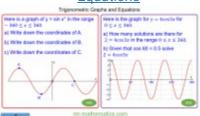
#### Area Under Non-Linear Graphs



#### Algebraic Proof



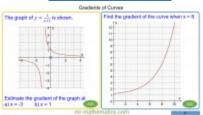
#### <u>Trigonometric Graphs and</u> Equations



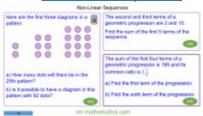
#### Solving $ax^2 + bx + c = 0 by$ Factorisation



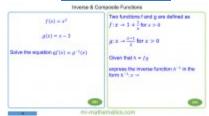
#### **Gradients of Curves**



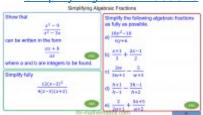
#### **Non-Linear Sequences**



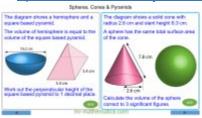
#### **Inverse Functions**



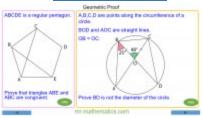
#### Simplify Algebraic Fractions



#### Spheres, Cones and Pyramids



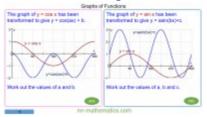
#### **Geometrical Proof**



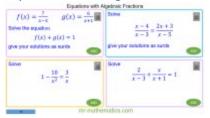
#### Calculations with Surds



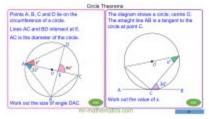
#### **Transforming Functions**



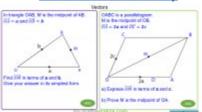
#### **Equations with Algebraic Fractions**



#### **Circle Theorems**



#### **Vectors and Geometry**



#### Setting Up and Solving Quadratics



## Linear and Quadratic Simultaneous

#### **Equations**

