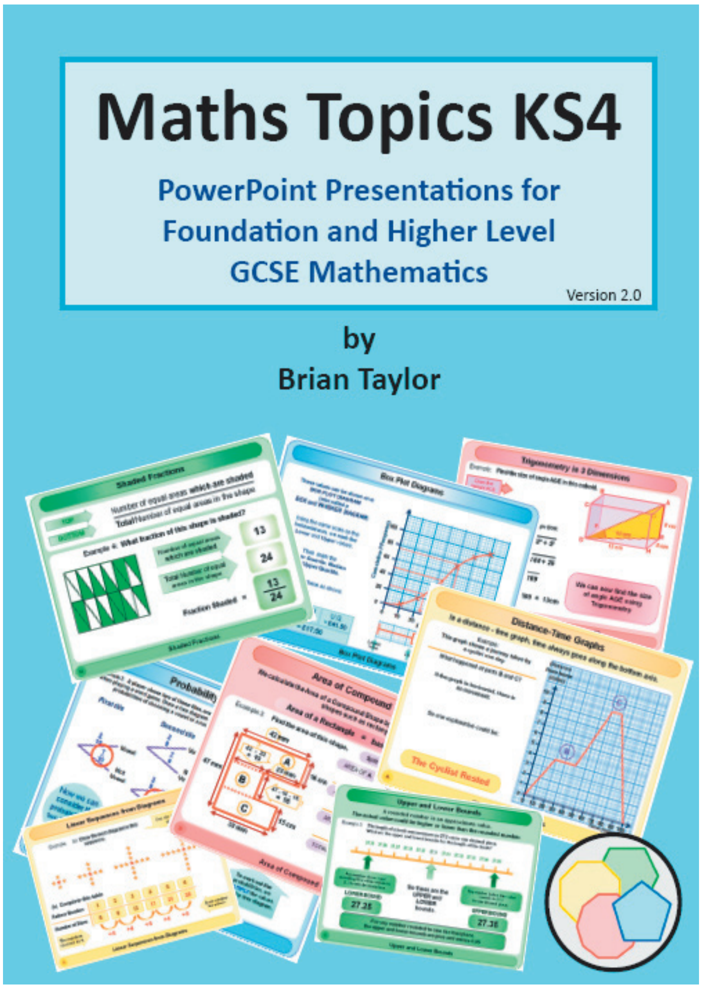
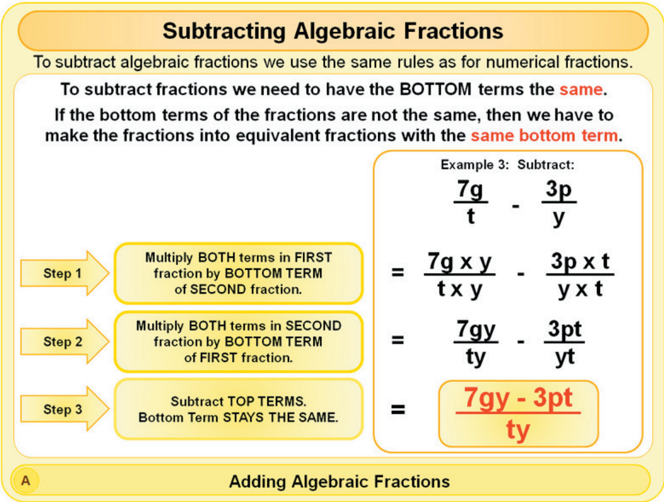
MATHS TOPICS

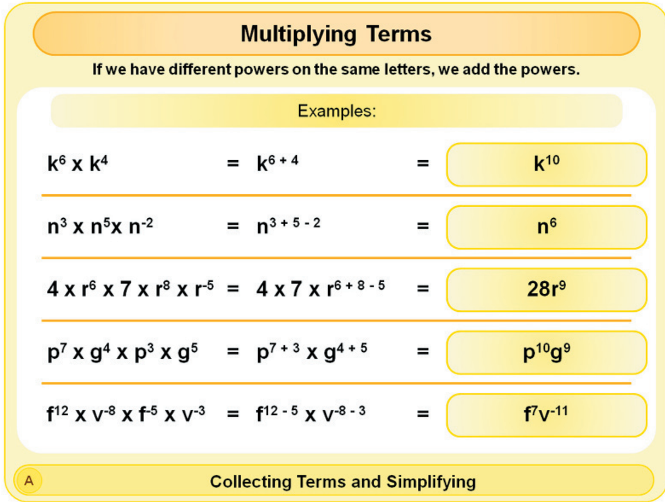
Powerpoint Presentations for
Foundation and Higher Level
GCSE Mathematics



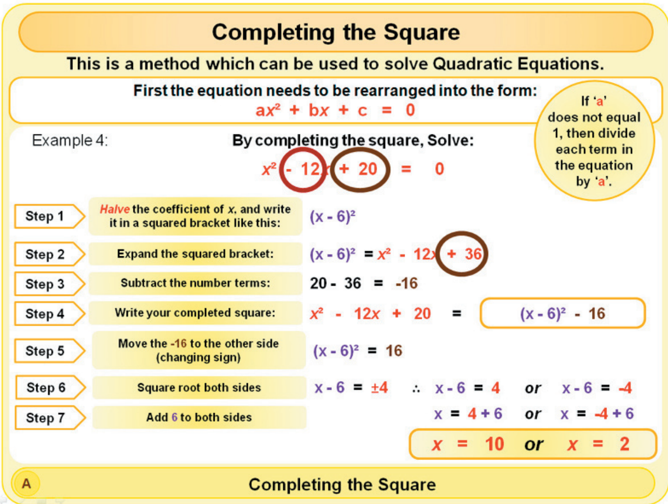
A sample screen shot from each powerpoint is given.



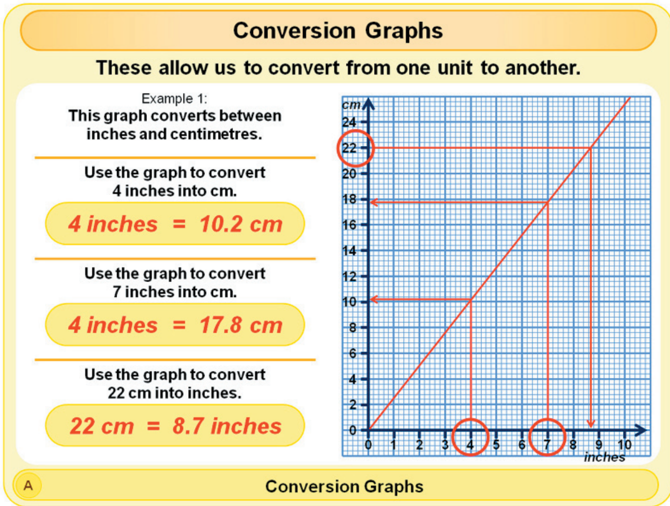
Algebra: Algebraic Fractions



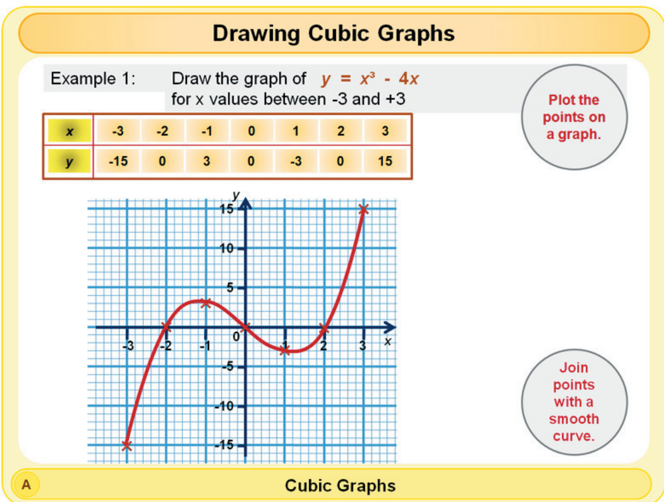
Algebra: Collecting Terms and Simplifying



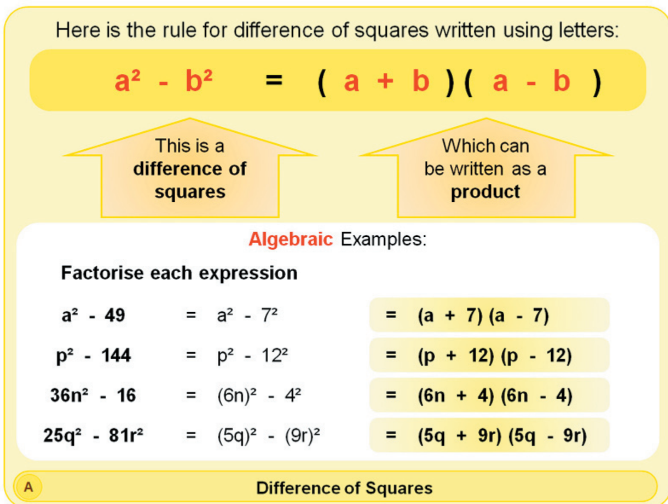
Algebra: Completing the Square



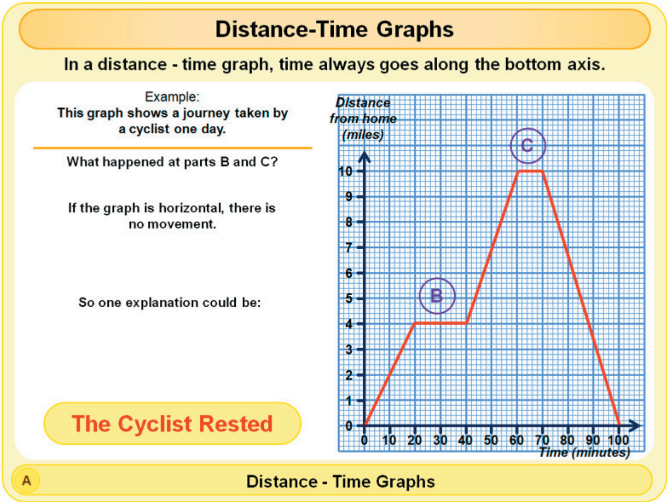
Algebra: Conversion Graphs



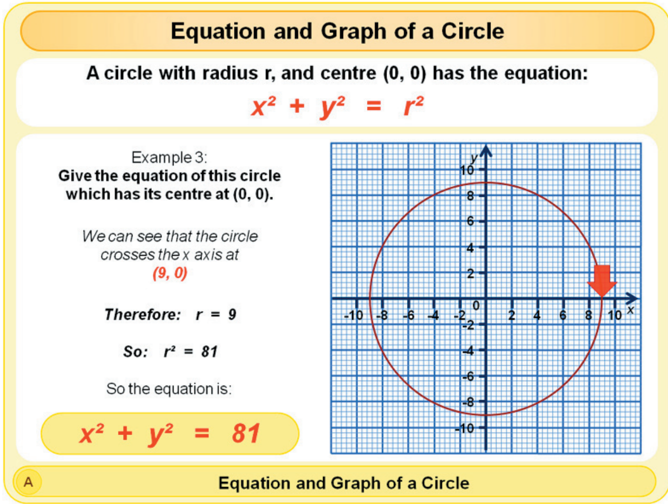
Algebra: Cubic and Reciprocal Graphs



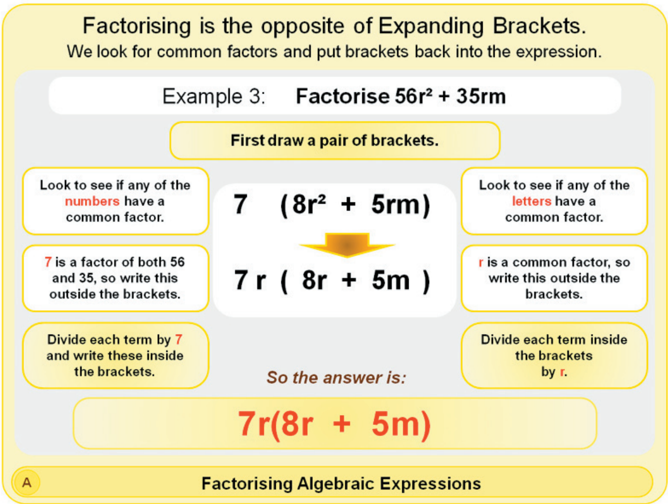
Algebra: Difference of Squares



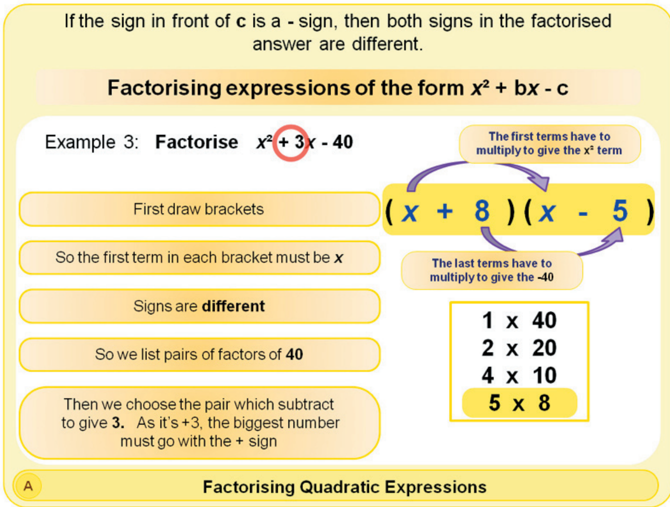
Algebra: Distance - Time Graphs



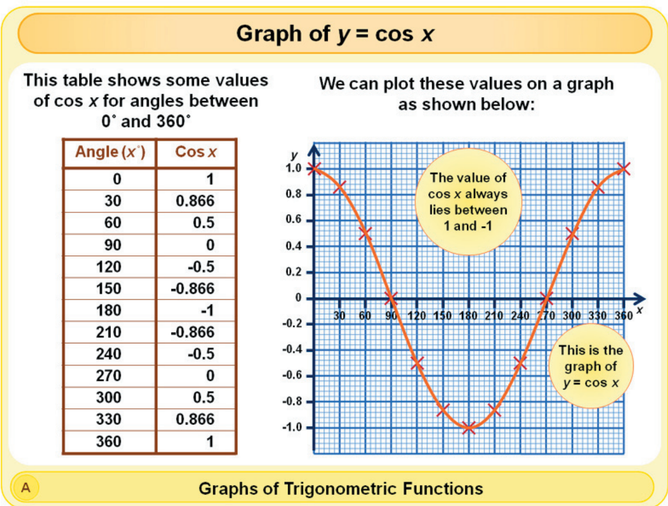
Algebra: Equation and Graph of a Circle



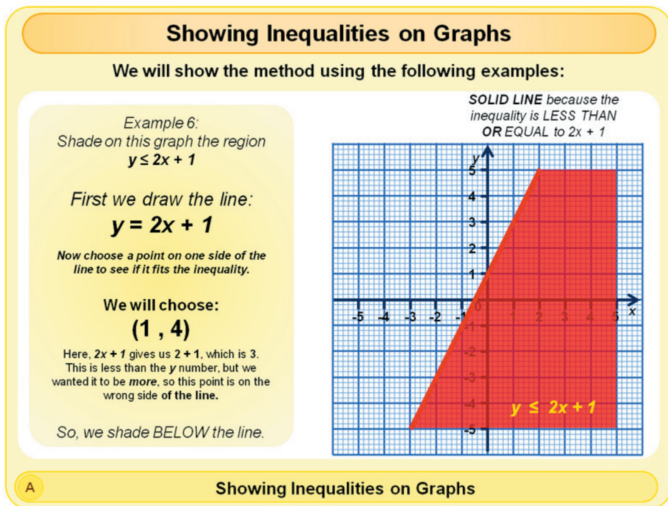
Algebra: Factorising Algebraic Expressions



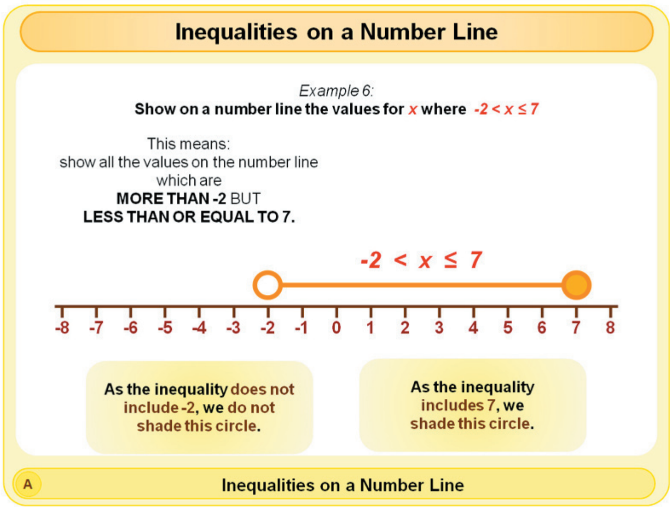
Algebra: Factorising Quadratic Expressions



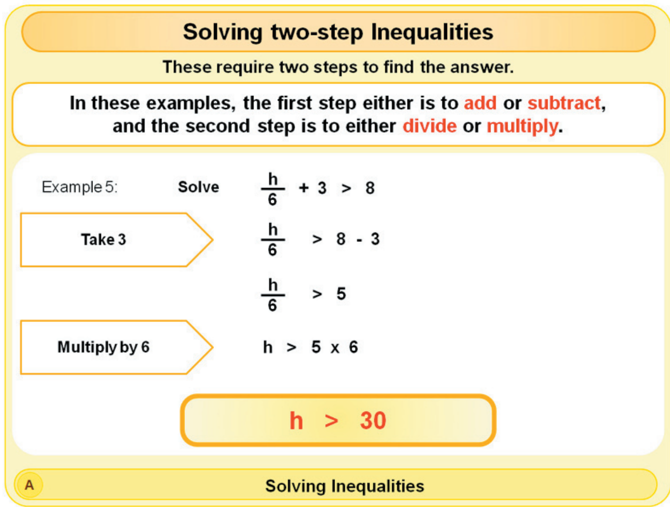
Algebra: Graphs of Trigonometric Functions



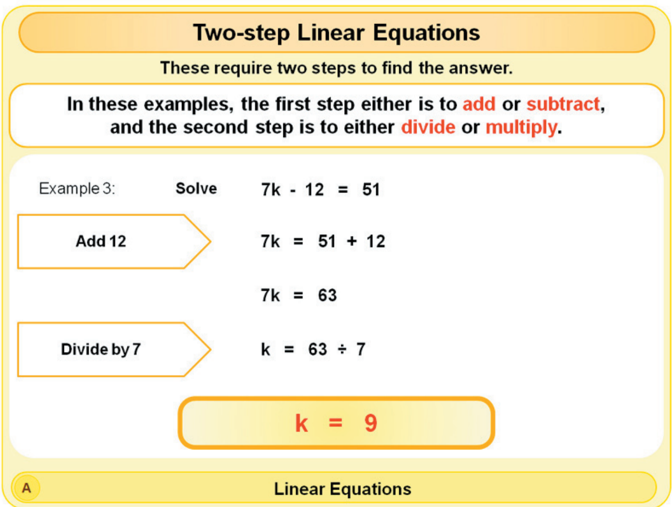
Algebra: Inequalities as Regions on Graphs



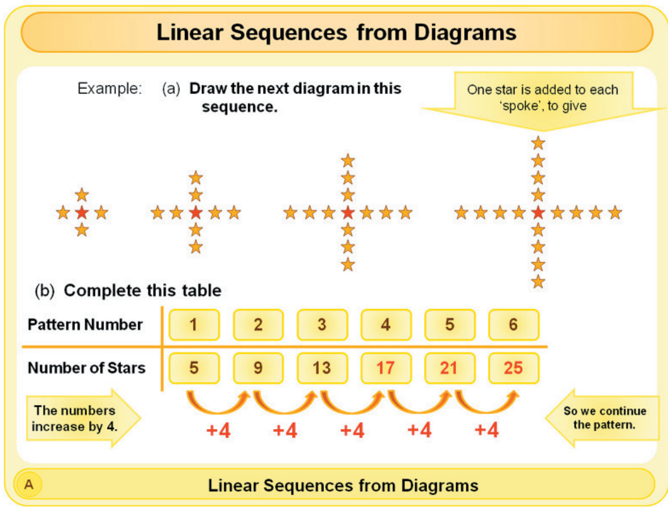
Algebra: Inequalities on a Number Line



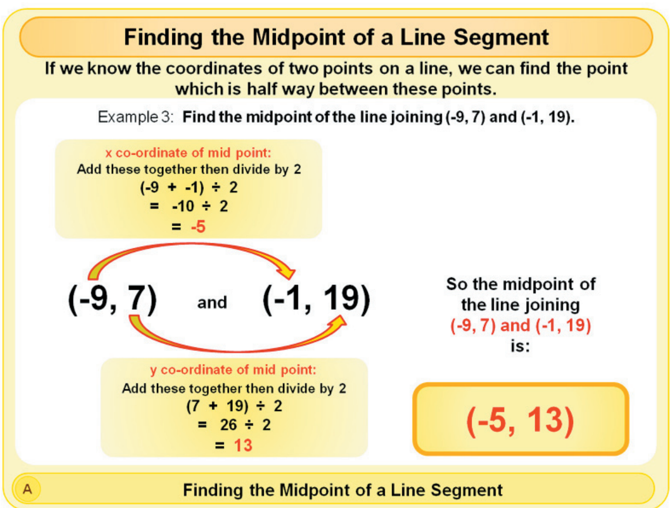
Algebra: Inequalities: Solving



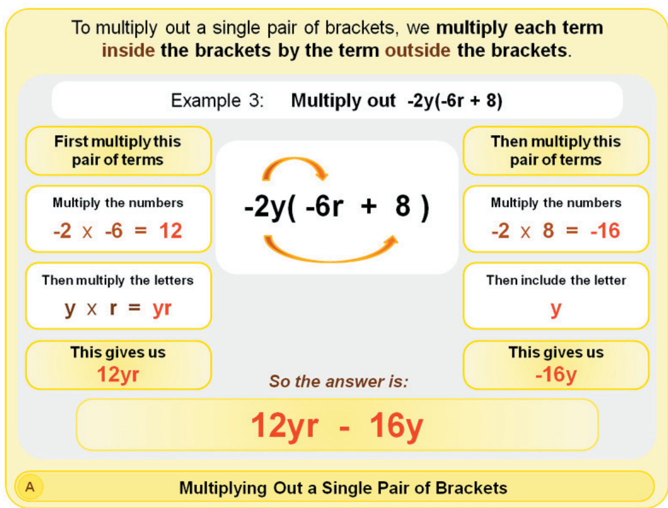
Algebra: Linear Equations



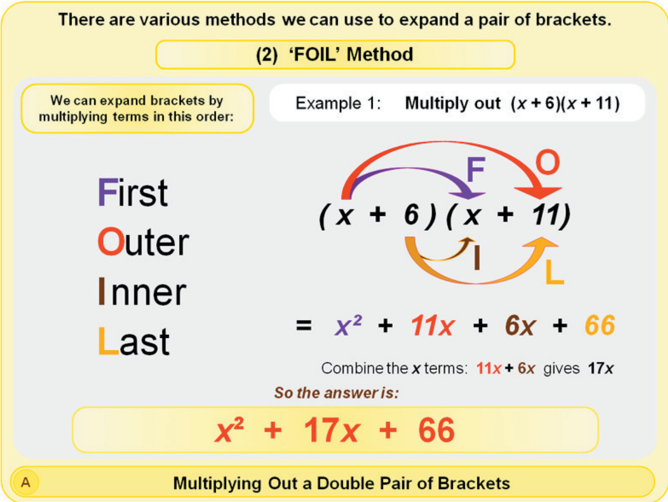
Algebra: Linear Sequences - Finding Terms and Rules



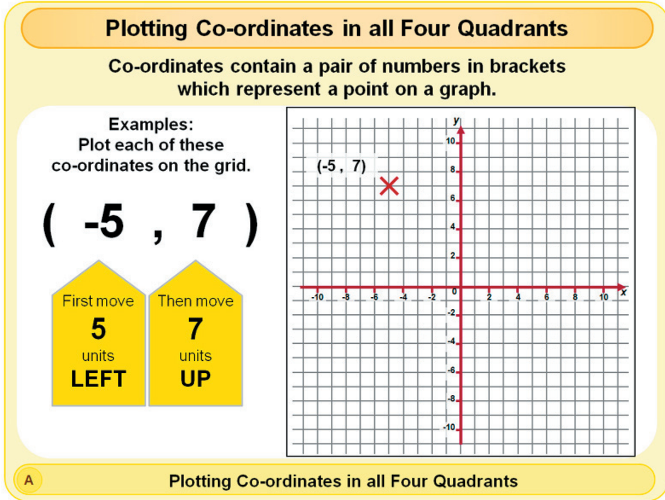
Algebra: Midpoint of a Line Segment



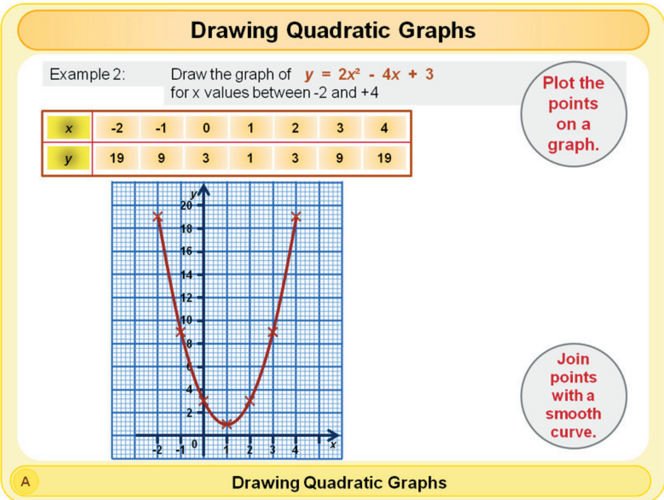
Algebra: Multiplying out a Single Pair of Brackets



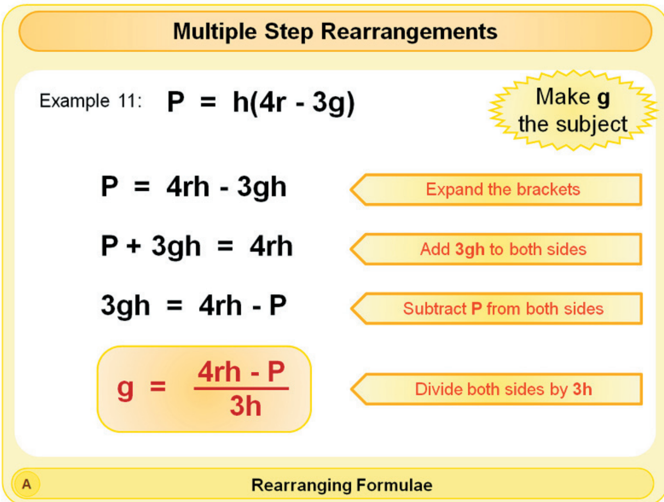
Algebra: Multiplying out a Double Pair of Brackets



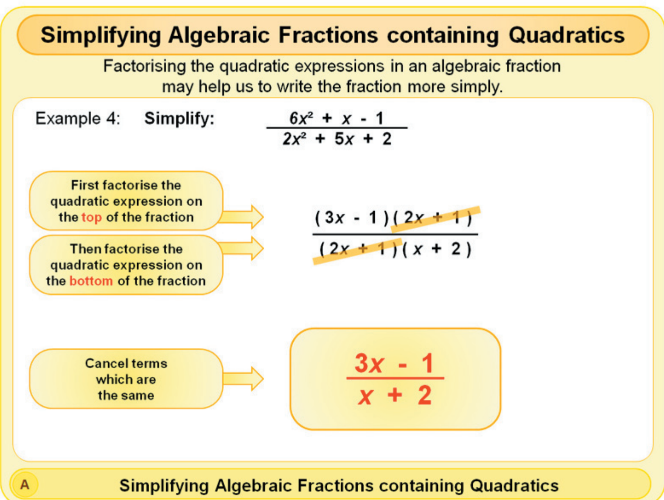
Algebra: Plotting Co-ordinates in all Four Quadrants



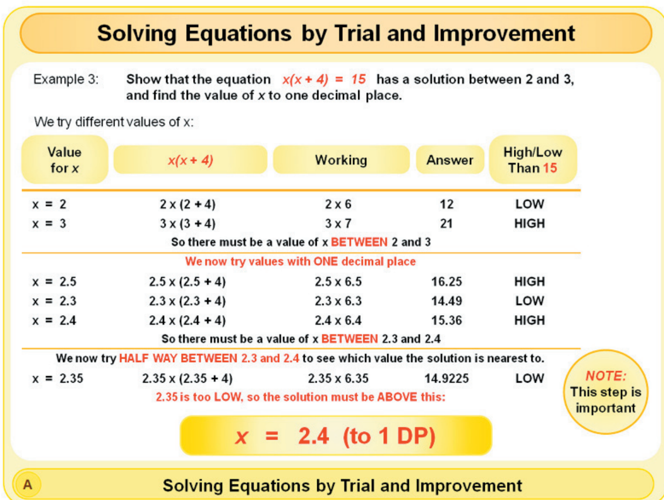
Algebra: Quadratic Graphs



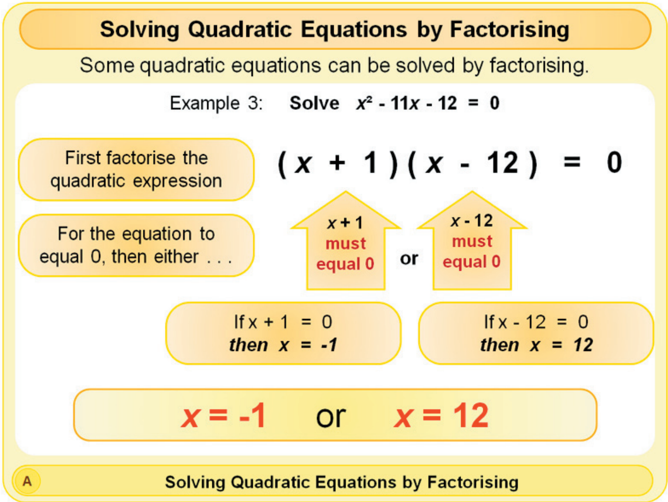
Algebra: Rearranging Formulae



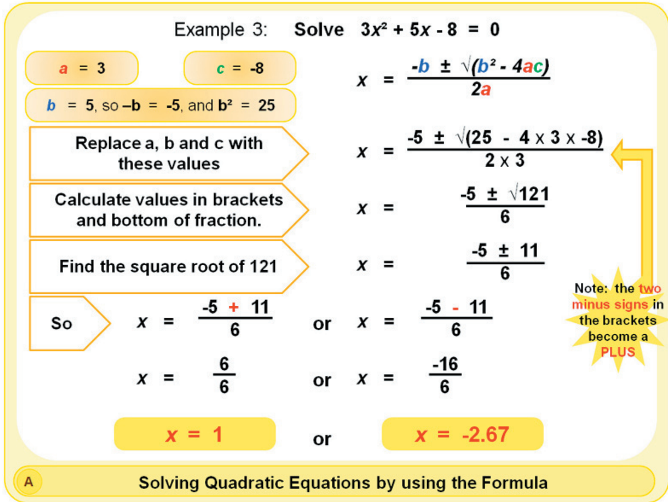
Algebra: Simplifying Algebraic Fractions Containing Quadratics



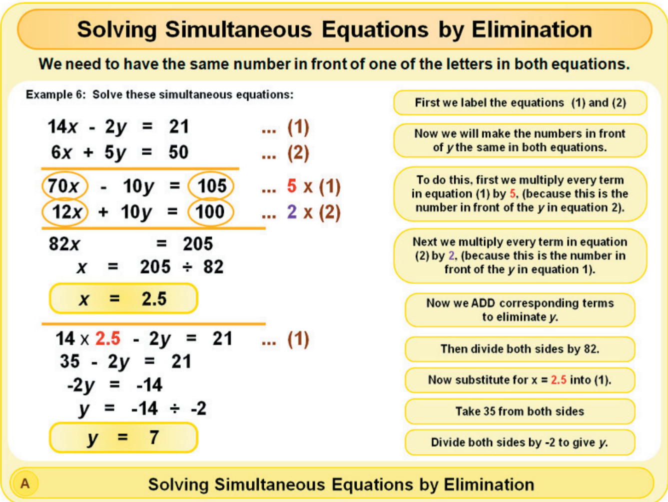
Algebra: Solving Equations by Trial and Improvement



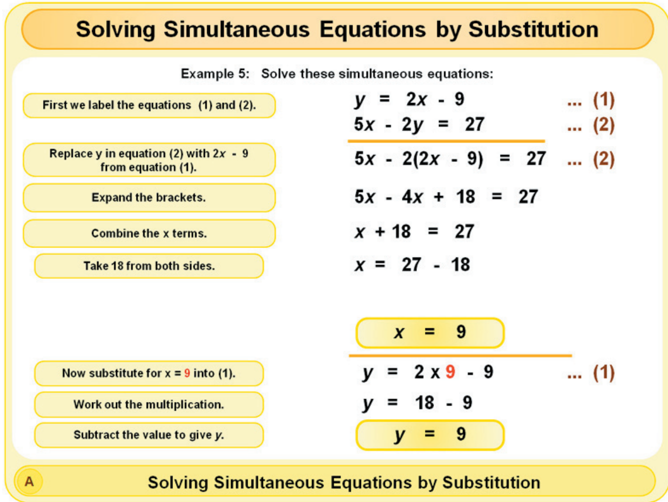
Algebra: Solving Quadratic Equations by Factorising



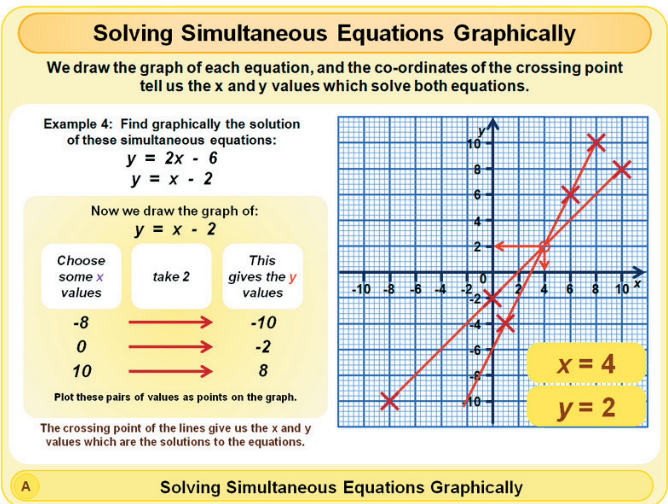
Algebra: Solving Quadratic Equations by using the Formula



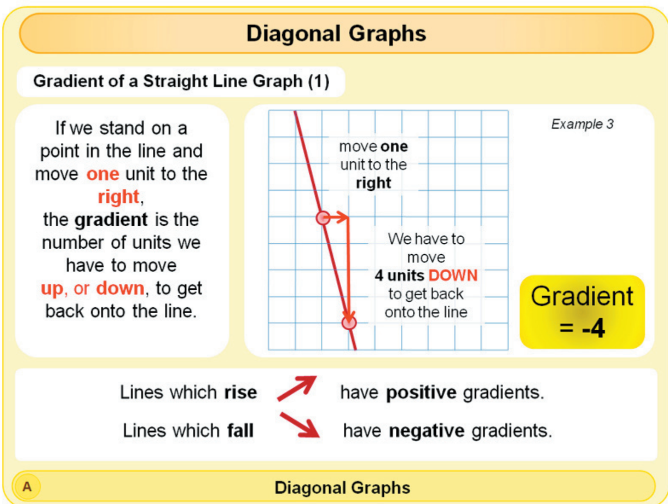
Algebra: Solving Simultaneous Equations by Elimination



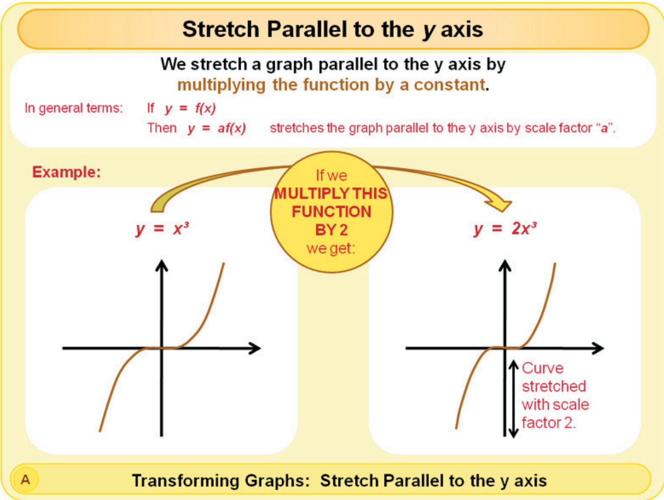
Algebra: Solving Simultaneous Equations by Substitution



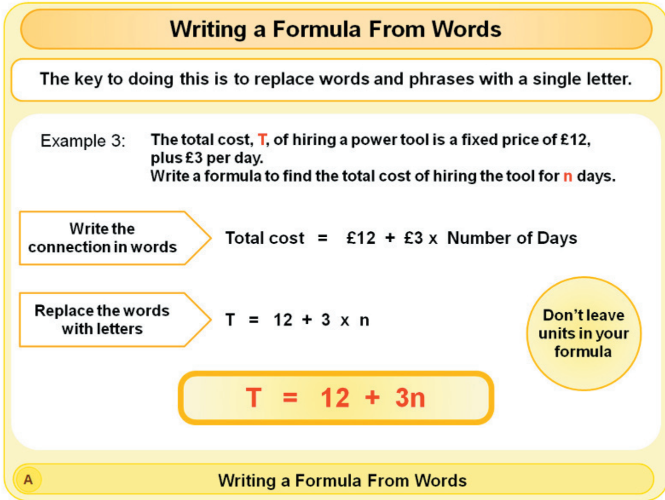
Algebra: Solving Simultaneous Equations Graphically



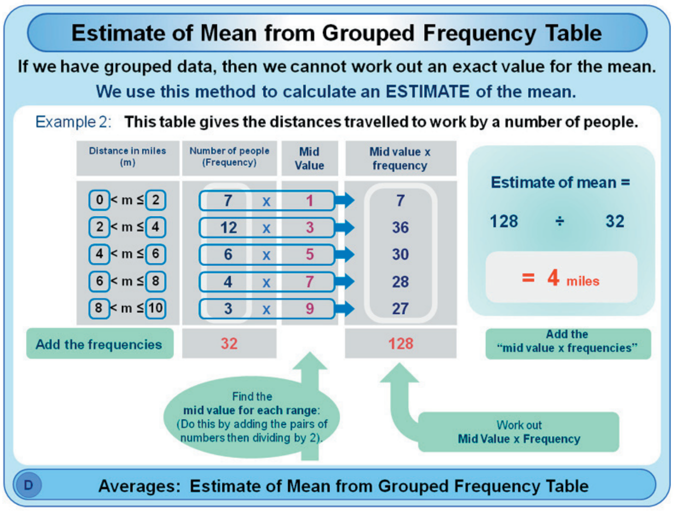
Algebra: Straight Line Graphs



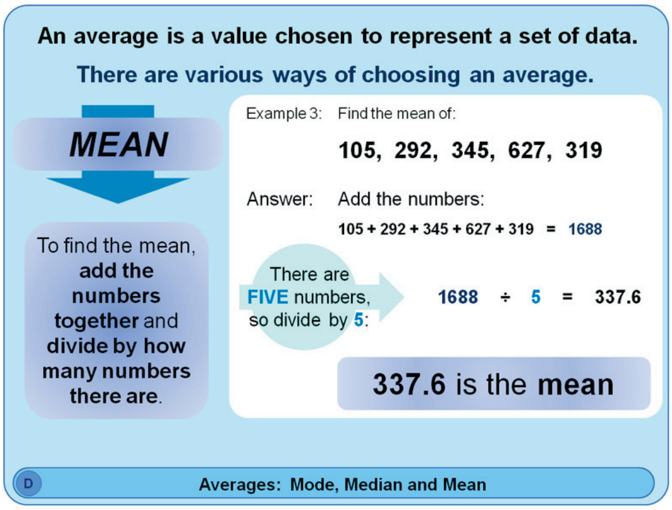
Algebra: Transforming Graphs



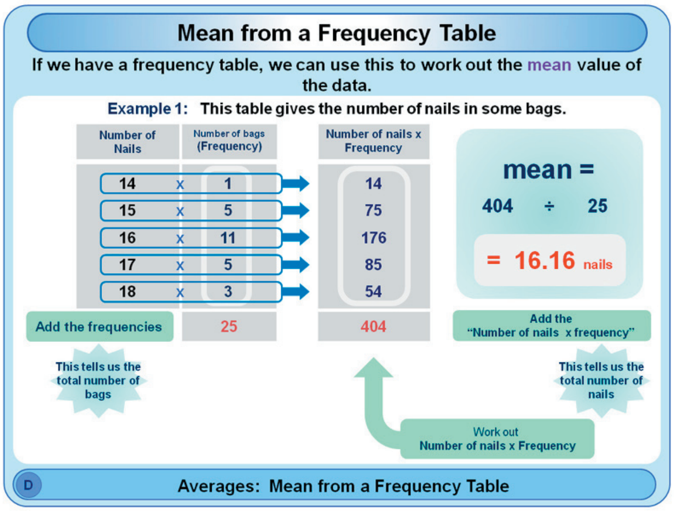
Algebra: Writing Formulae from Words



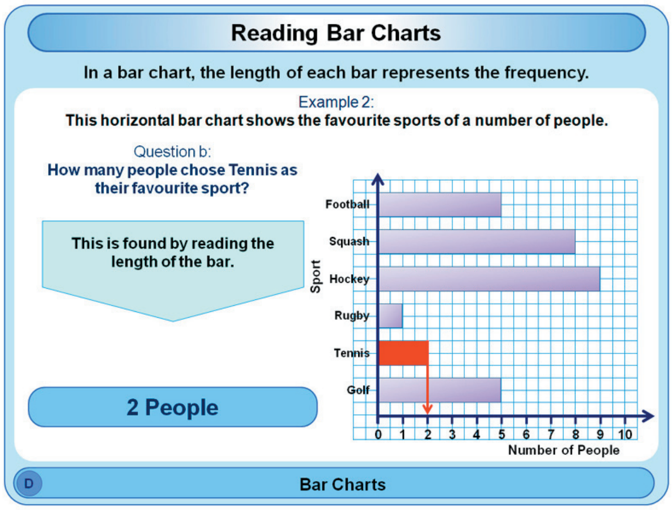
Data: Averages - Finding an Estimate of the Mean



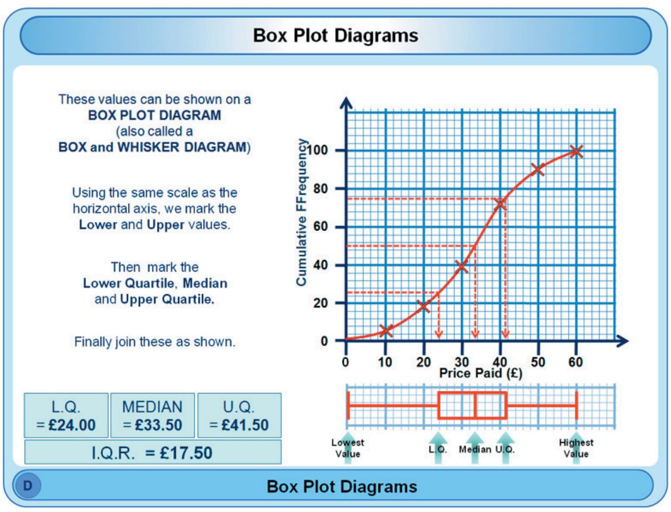
Data: Averages - Mode, Median, Mean and Range



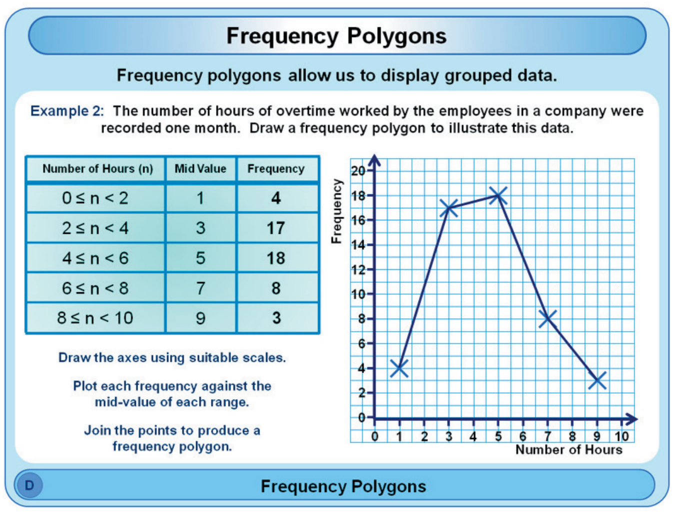
Data: Averages - Mean from a Frequency Table



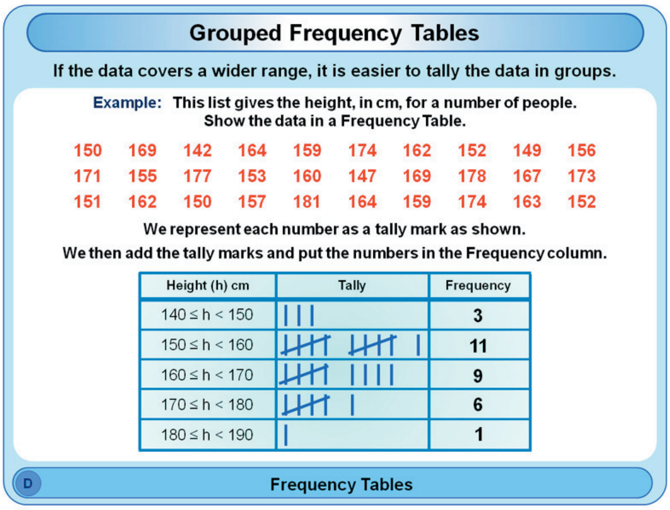
Data: Bar Charts



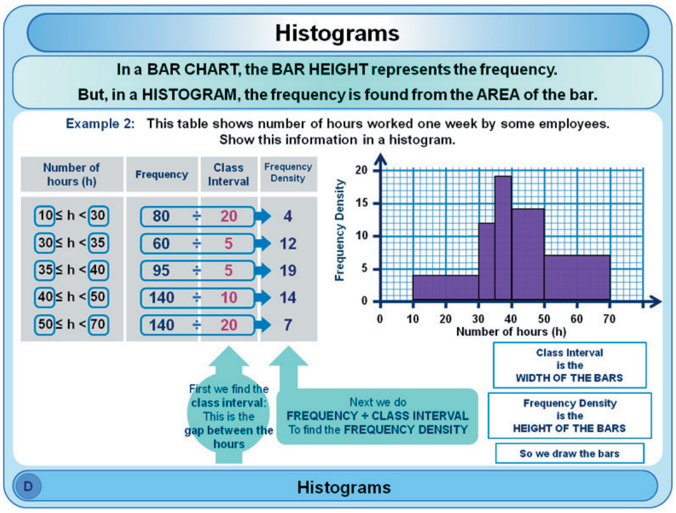
Data: Cumulative Frequency and Box Plot Diagrams



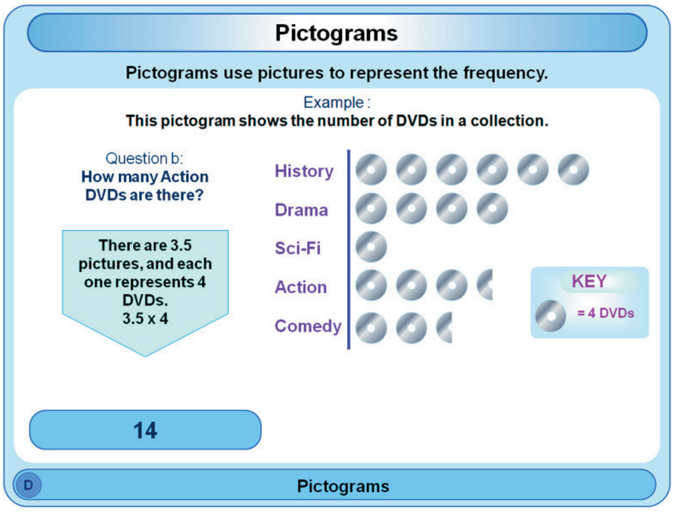
Data: Frequency Polygons



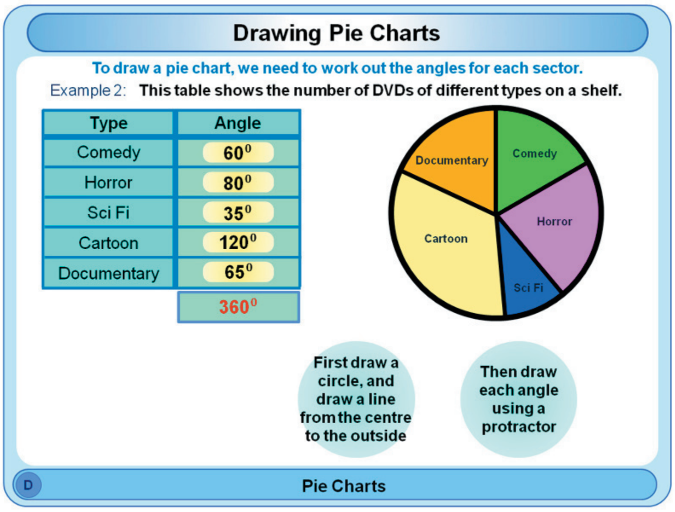
Data: Frequency Tables and Grouped Frequency Tables



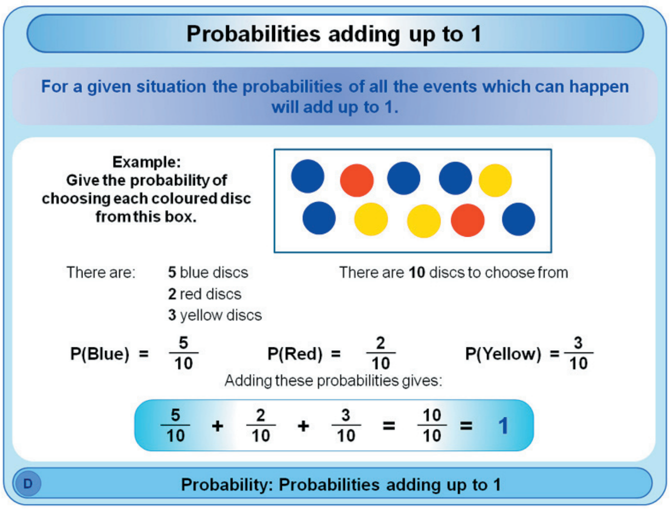
Data: Histograms



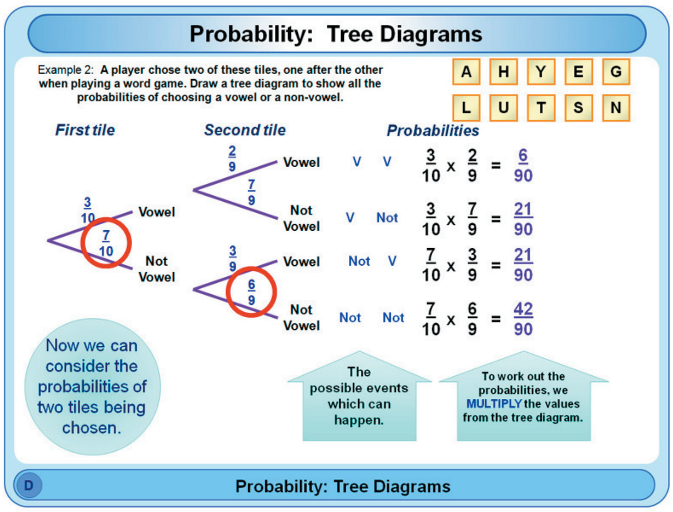
Data: Pictograms



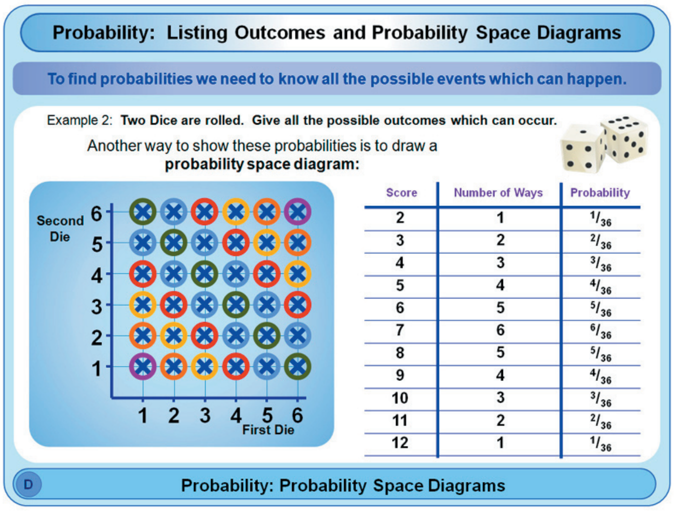
Data: Pie Charts



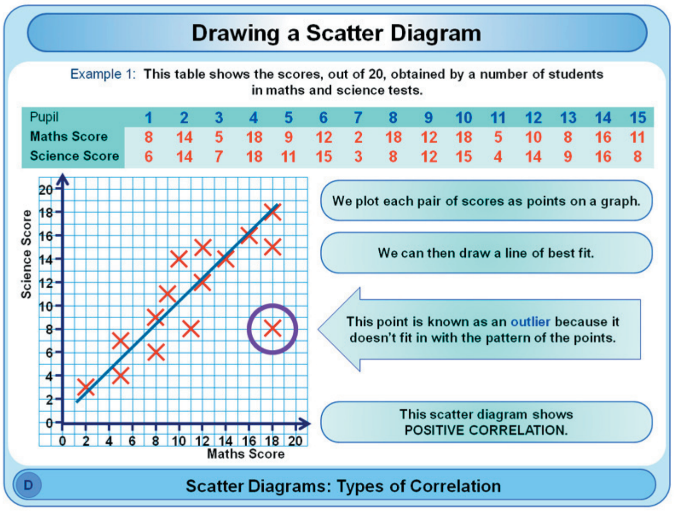
Data: Probability: Single Events



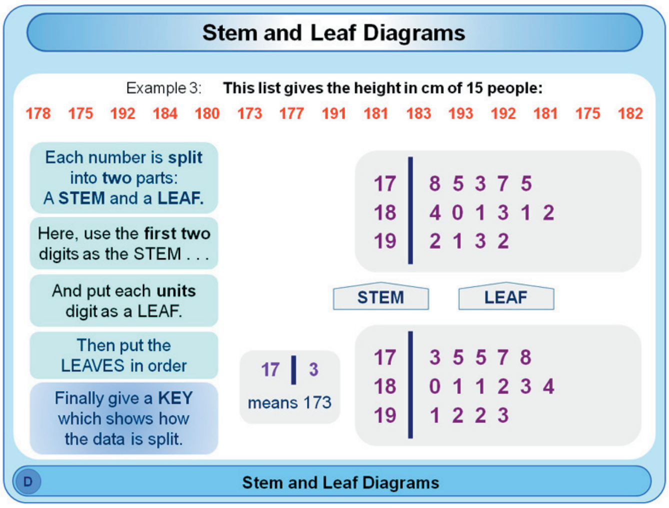
Data: Probability: Tree Diagrams



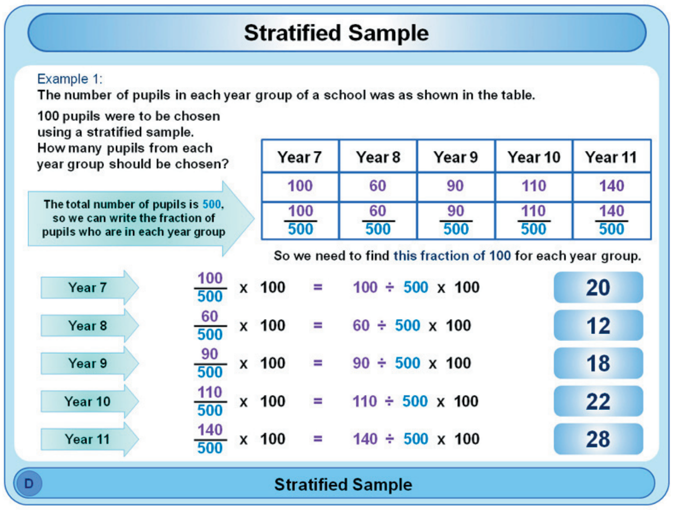
Data: Probability: Listing Outcomes and Probability Space Diagrams



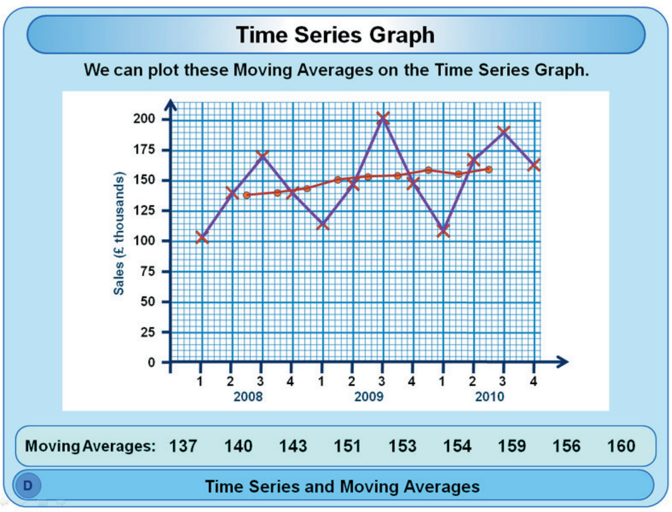
Data: Scatter Diagrams



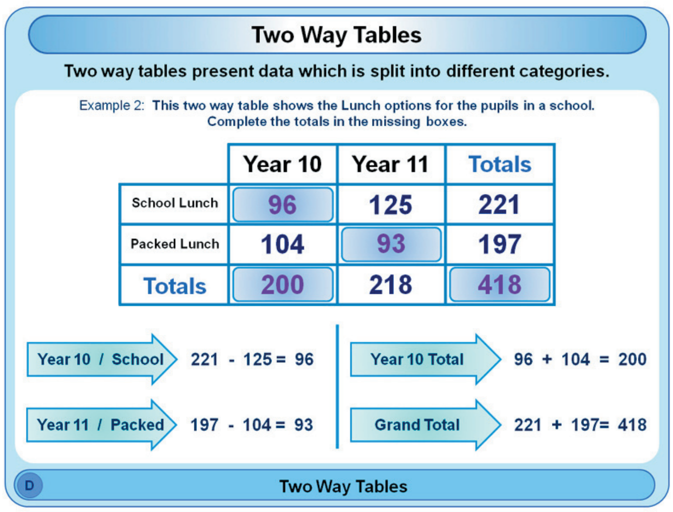
Data: Stem and Leaf Diagrams



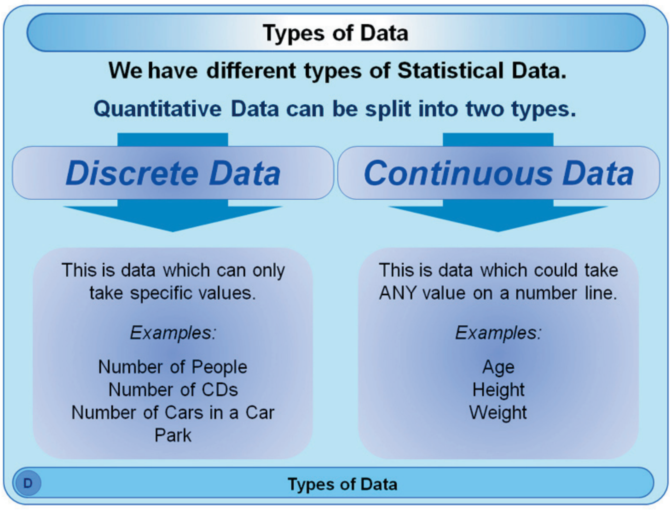
Data: Stratified Sample



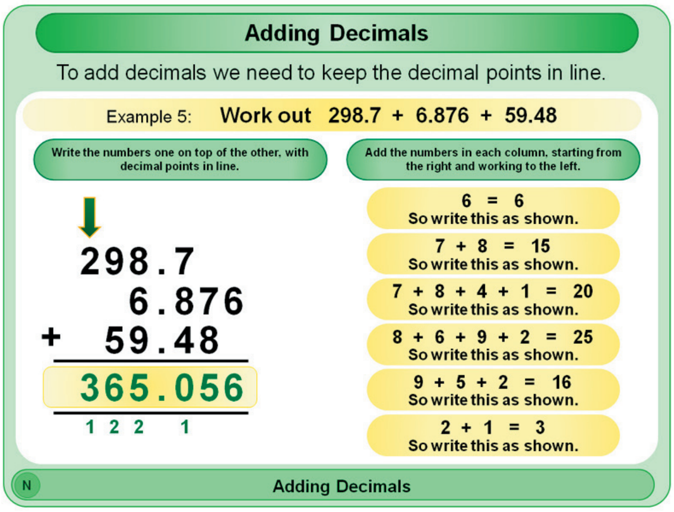
Data: Time Series and Moving Averages



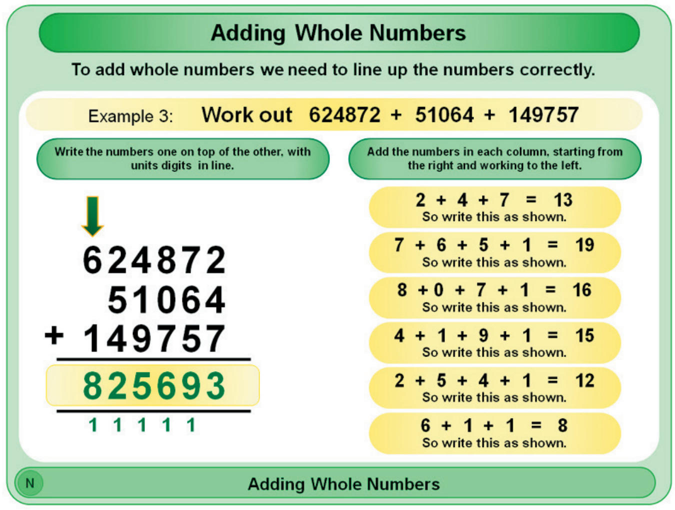
Data: Two Way Tables



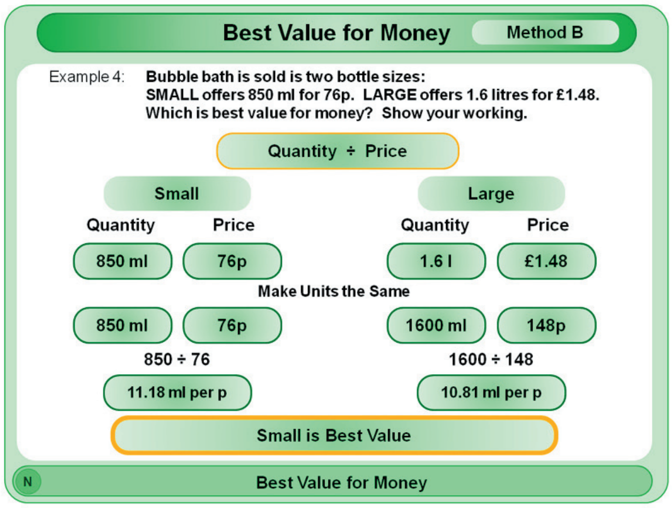
Data: Types of Data



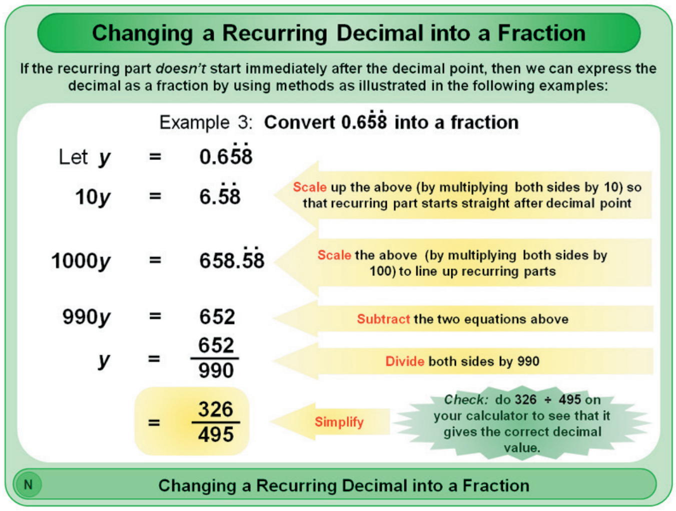
Number: Adding Decimals



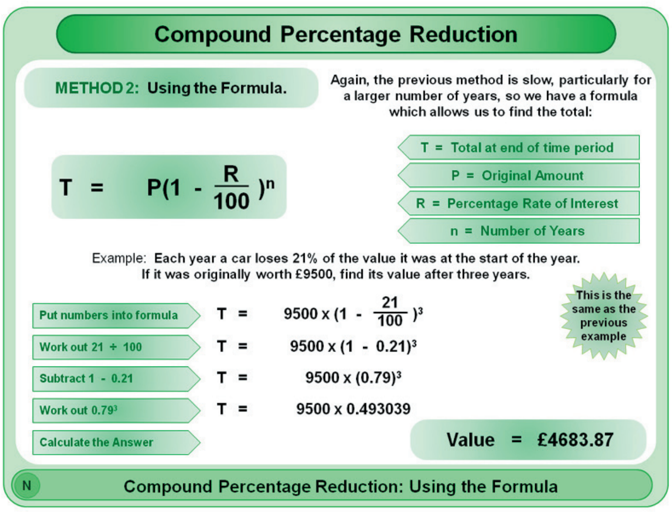
Number: Adding Whole Numbers



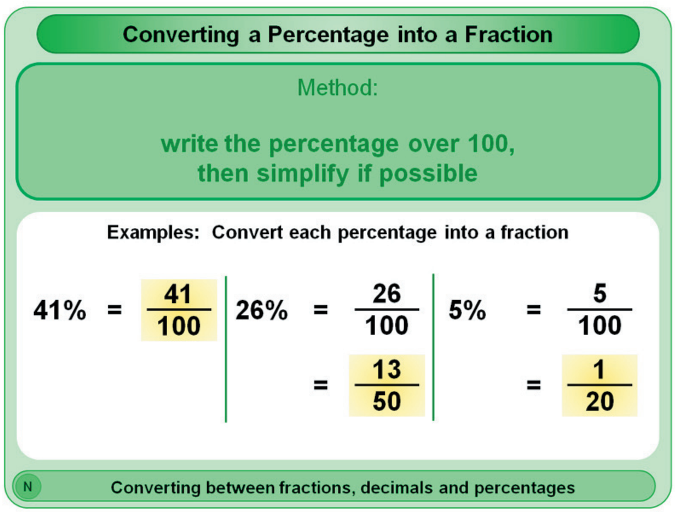
Number: Best Value for Money



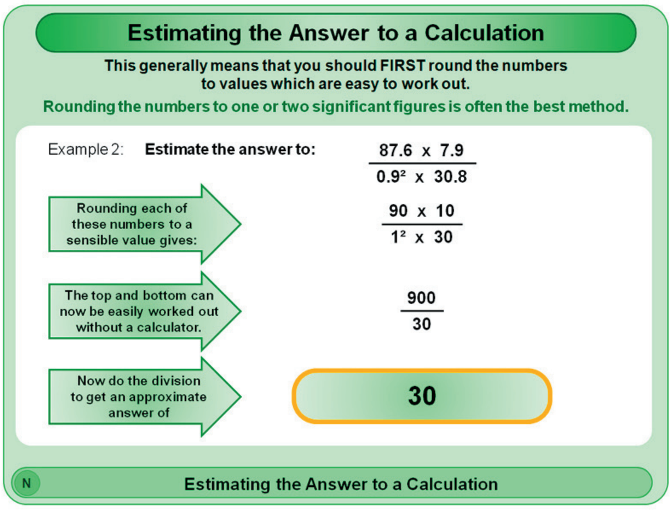
Number: Changing a Recurring Decimal into a Fraction



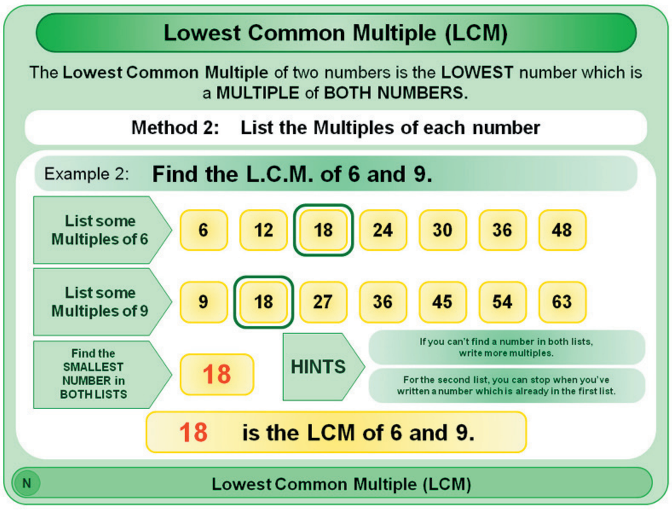
Number: Compound Interest and Compound Percentage Change



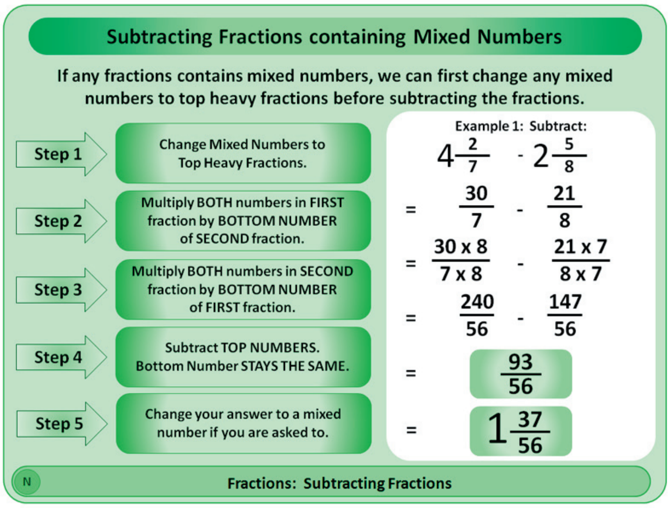
Number: Converting between Fractions, Decimals and Percentages



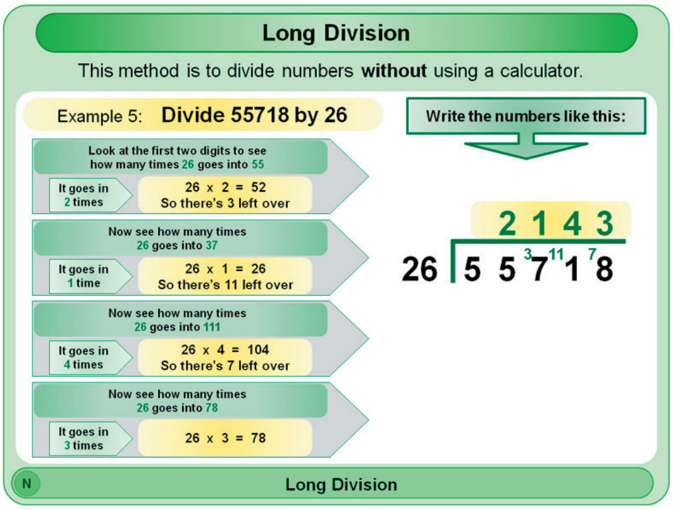
Number: Estimating the Answer to a Calculation



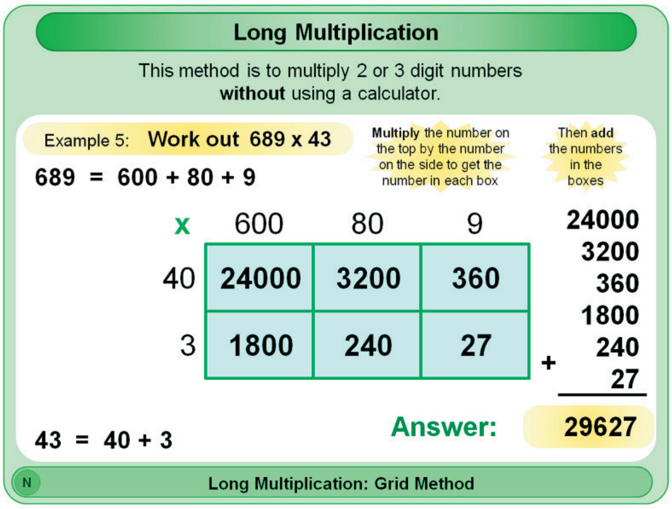
Number: Factors, Multiples, HCF, LCM



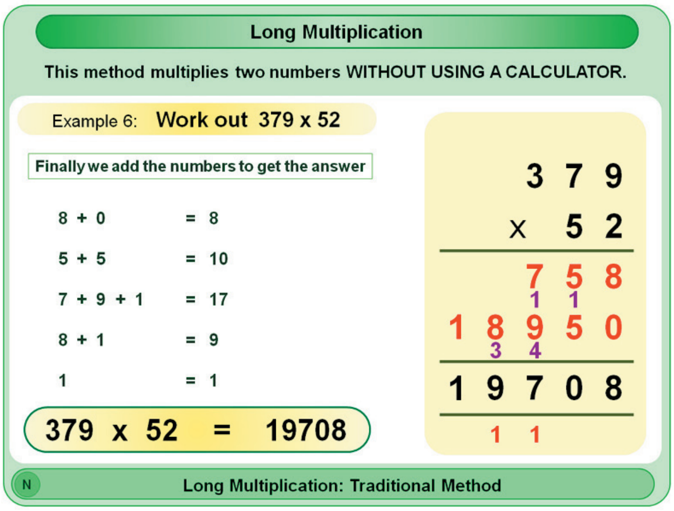
Number: Fractions



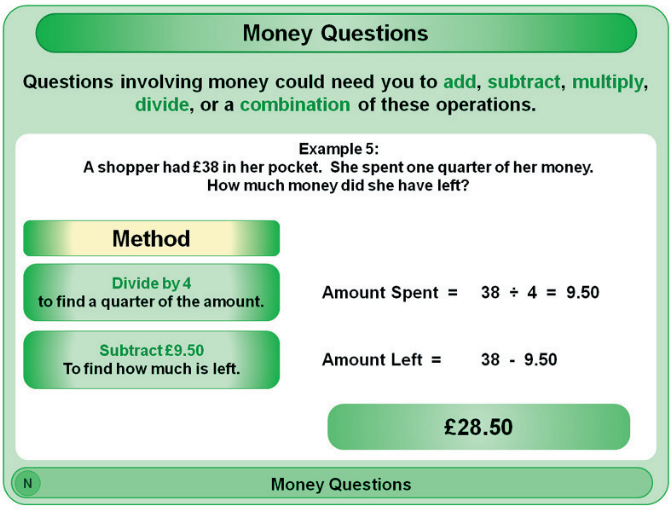
Number: Long Division



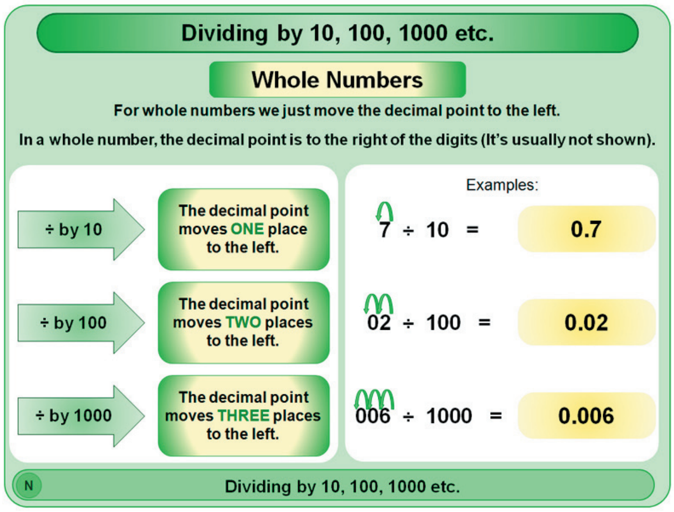
Number: Long Multiplication - Grid Method



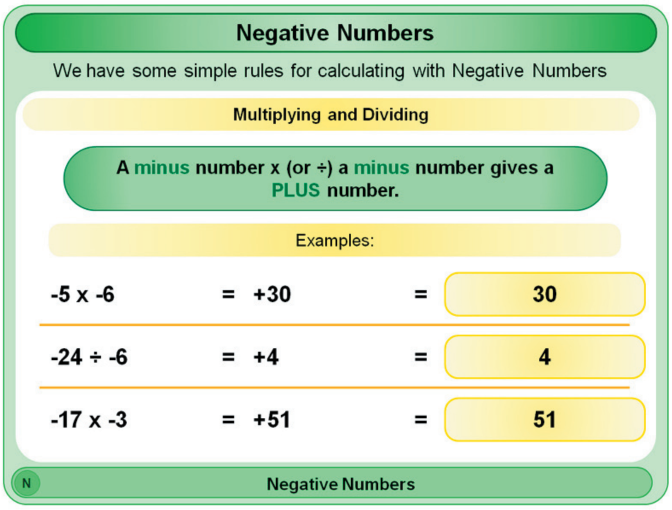
Number: Long Multiplication - Traditional Method



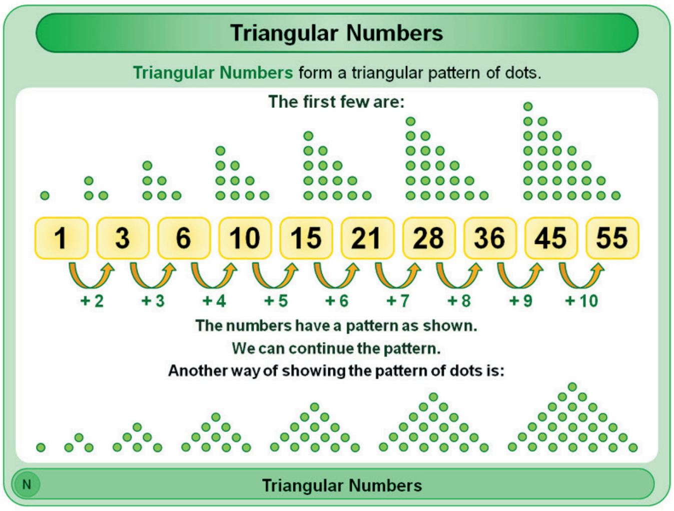
Number: Money Questions



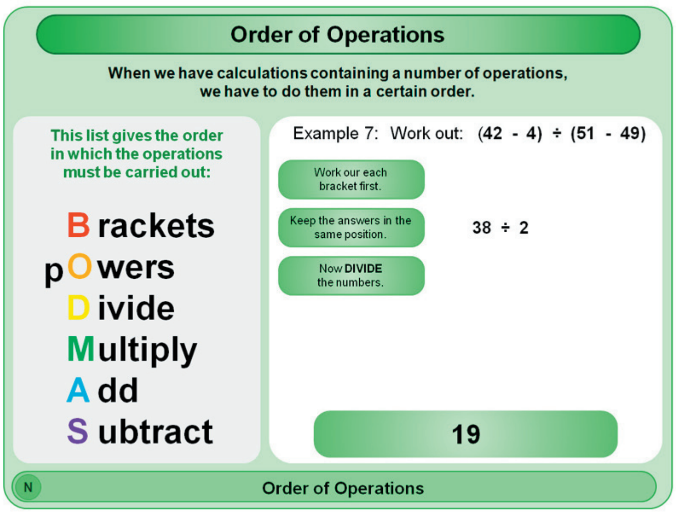
Number: Multiplying and Dividing by 10, 100, 1000 etc



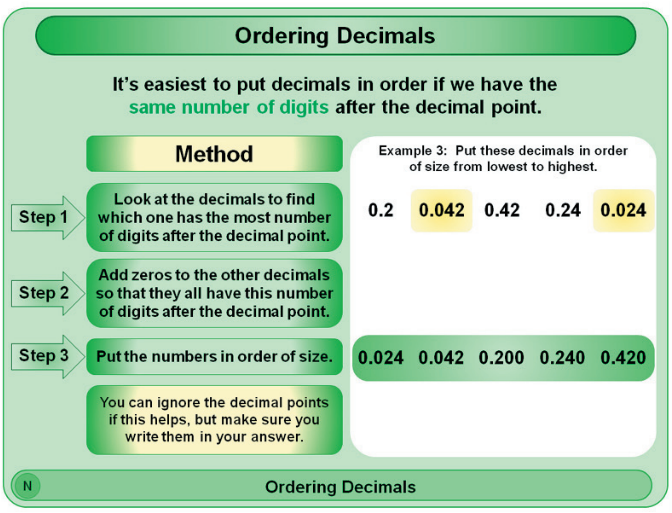
Number: Negative Numbers



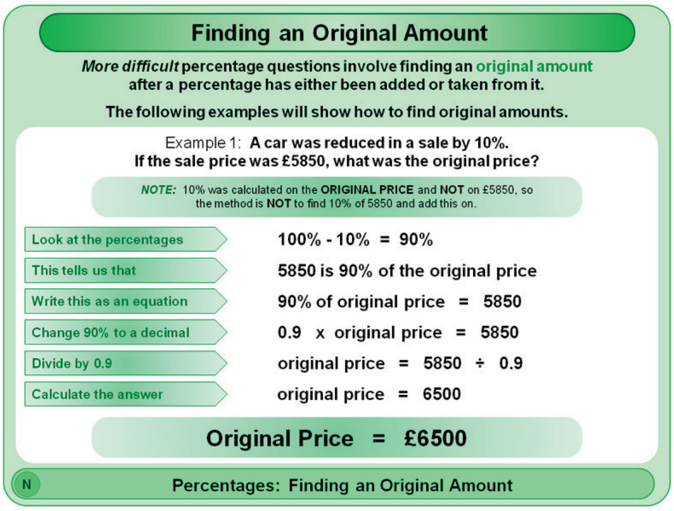
Number: Odd, Even, Prime and Triangular Numbers



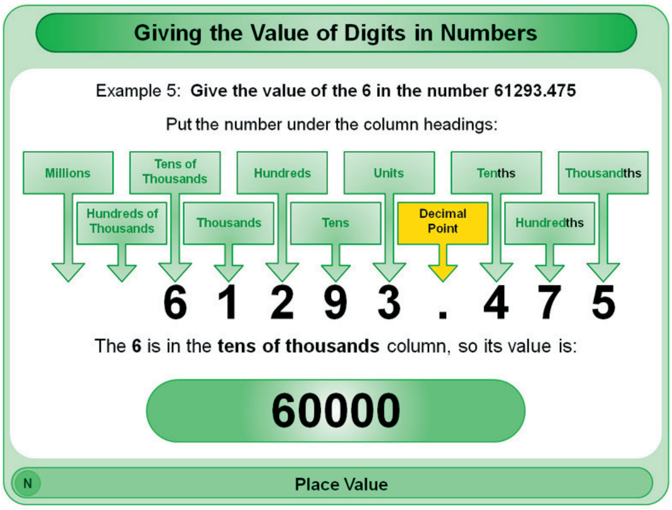
Number: Order of Operations - BODMAS



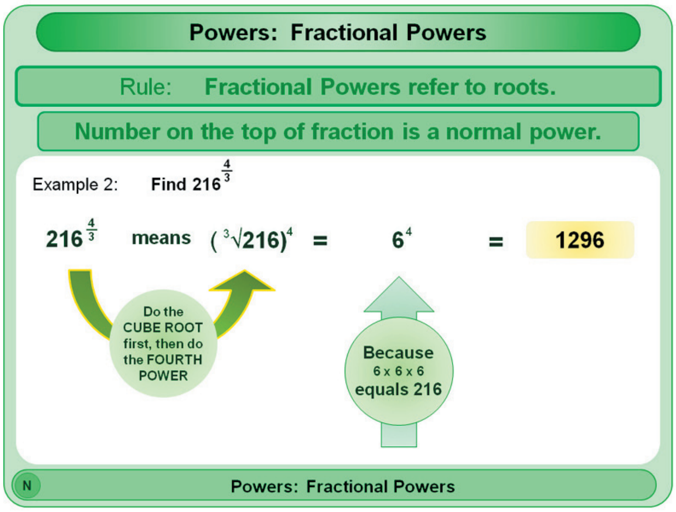
Number: Ordering Decimals



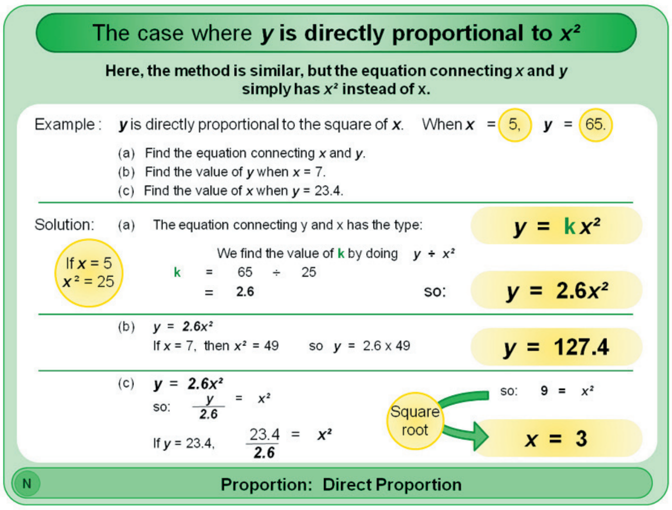
Number: Percentages



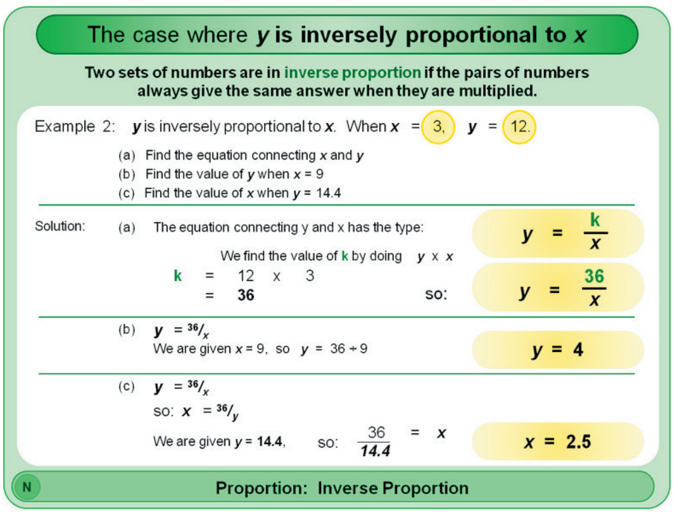
Number: Place Value



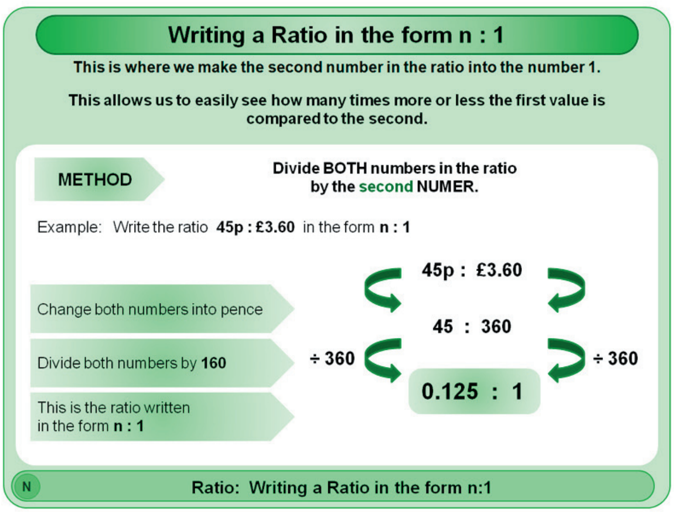
Number: Powers



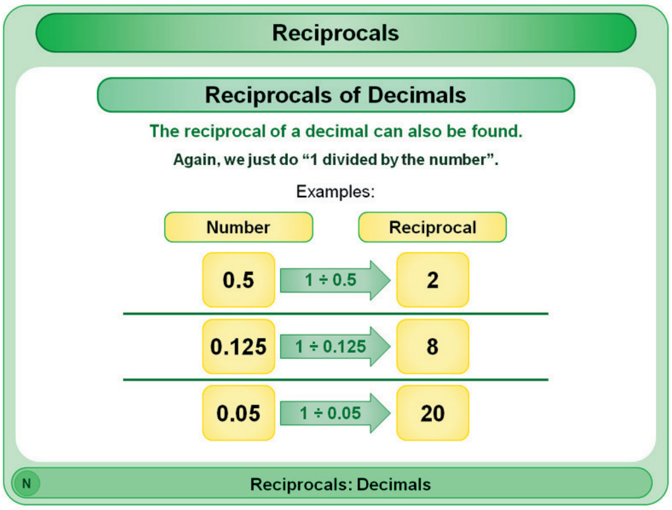
Number: Proportion - Direct Proportion



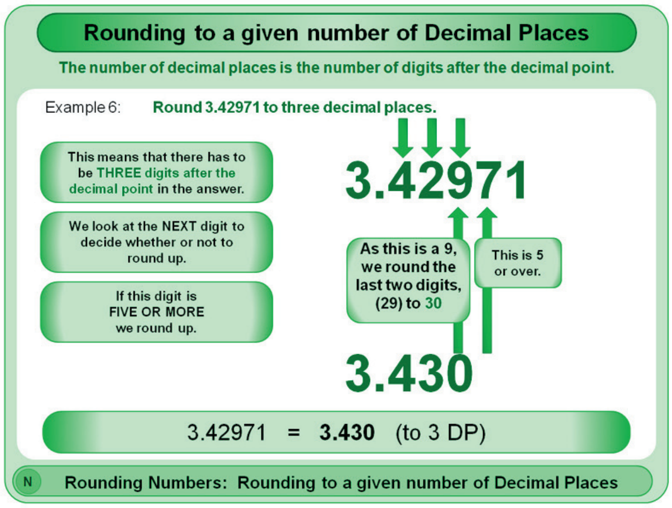
Number: Proportion - Inverse Proportion



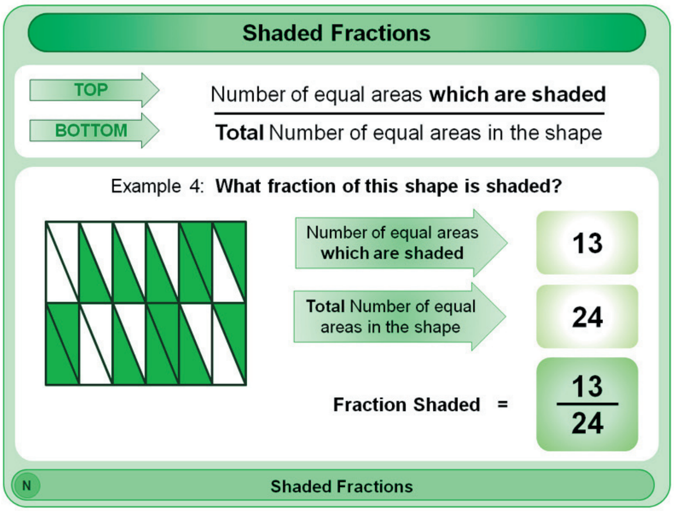
Number: Ratio



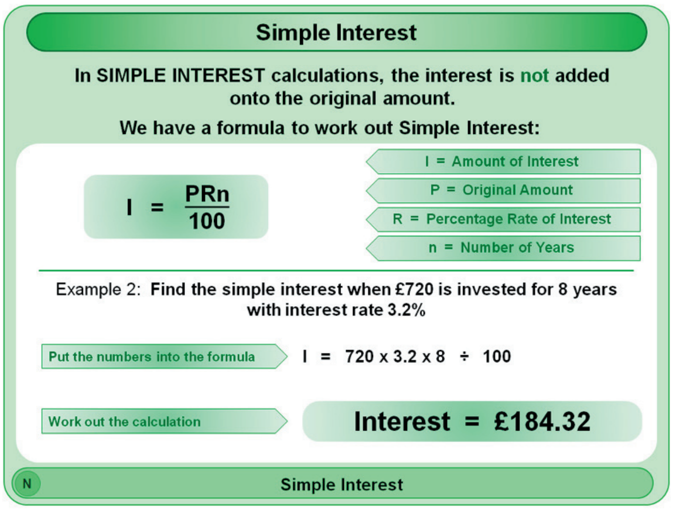
Number: Reciprocals



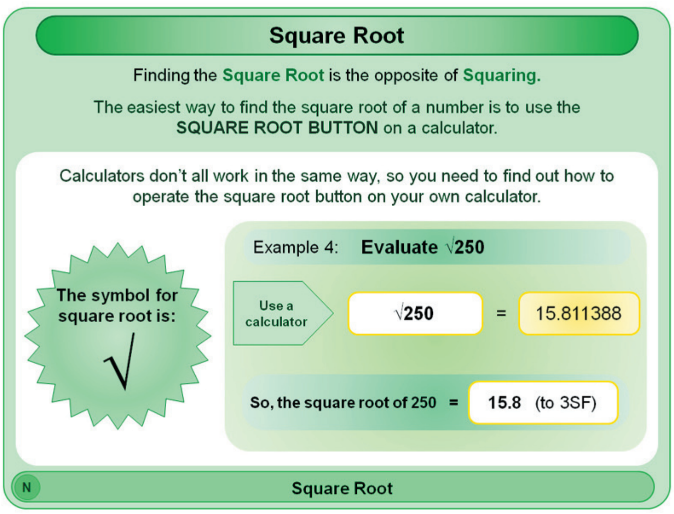
Number: Rounding Numbers



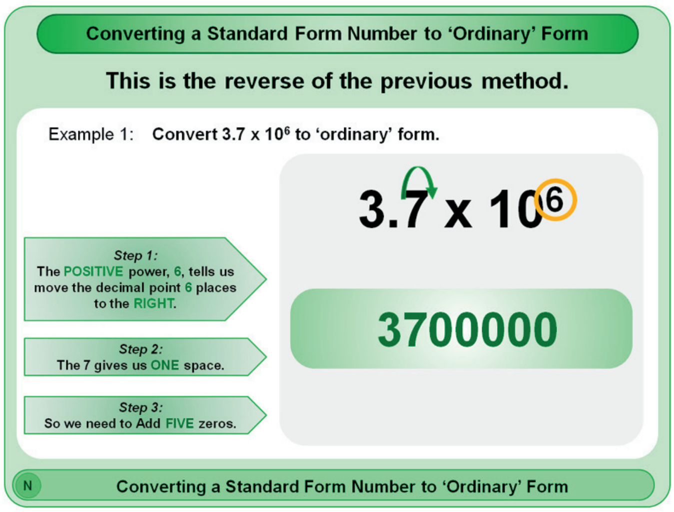
Number: Shaded Fractions



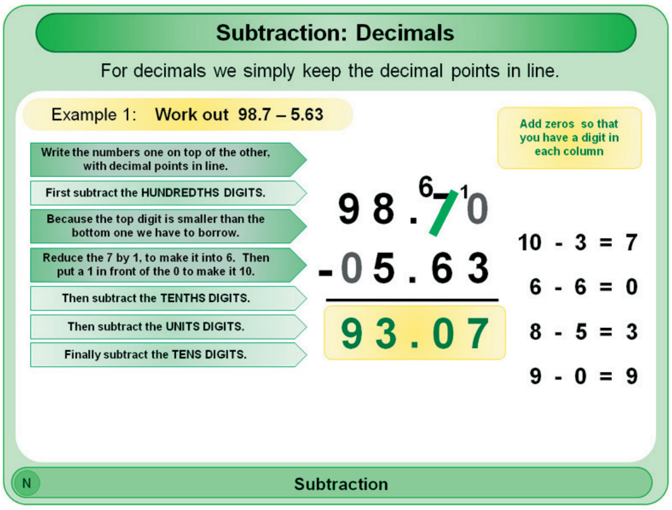
Number: Simple Interest



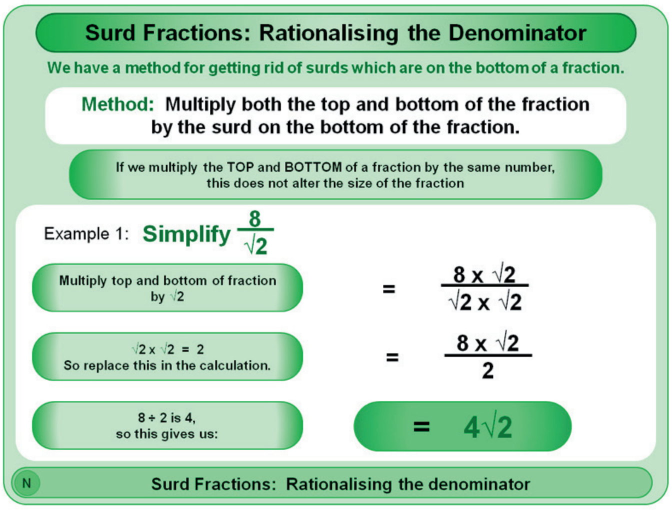
Number: Squares, Cubes and Roots



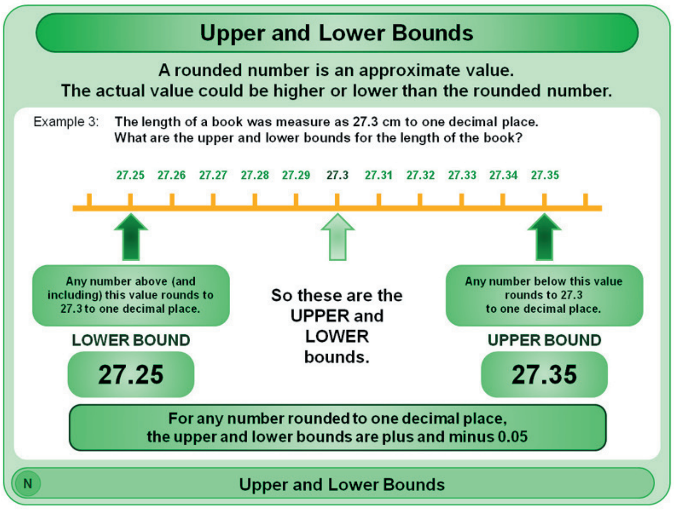
Number: Standard Form



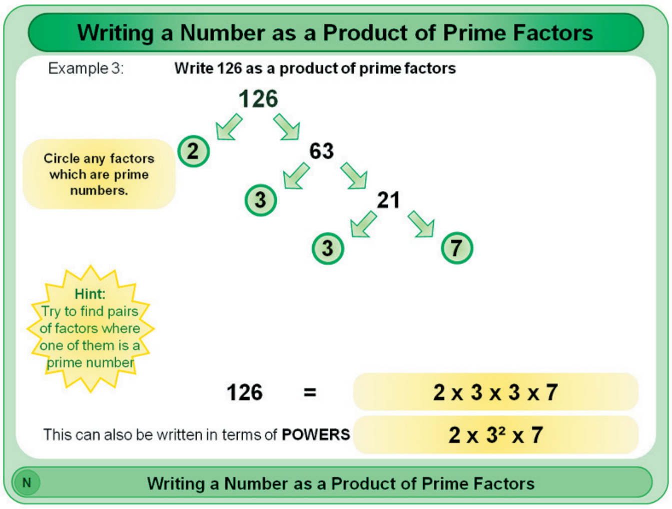
Number: Subtraction



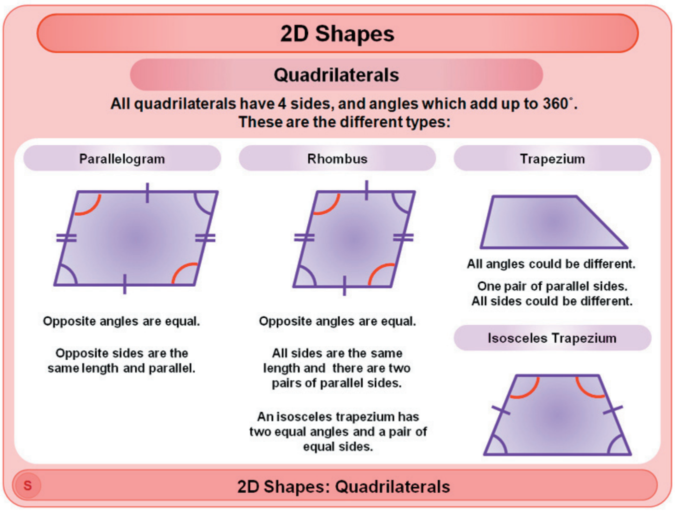
Number: Surds



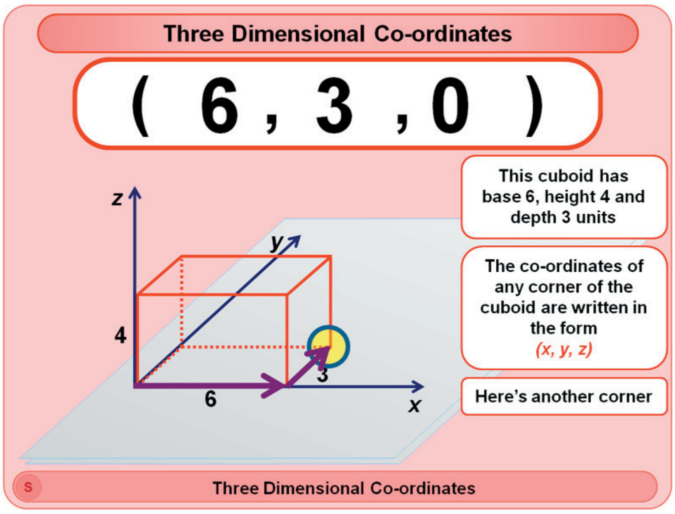
Number: Upper and Lower Bounds



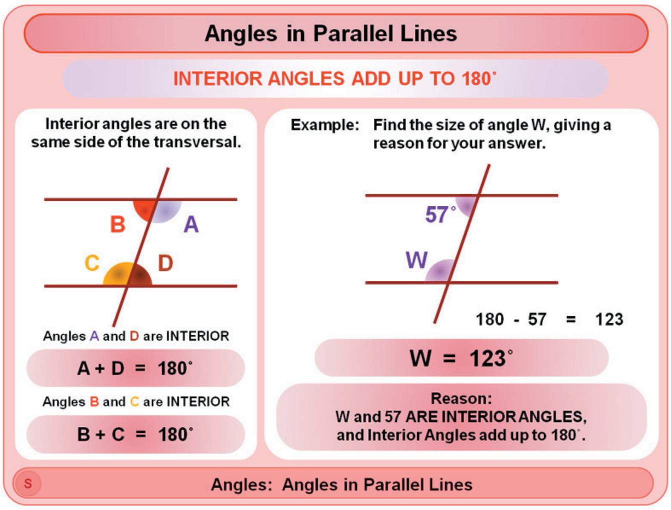
Number: Writing a number as a product of Prime Factors



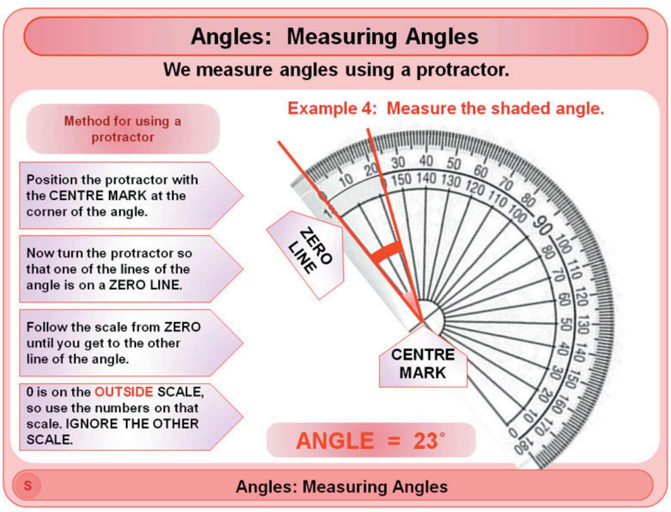
Shape: 2D Shapes



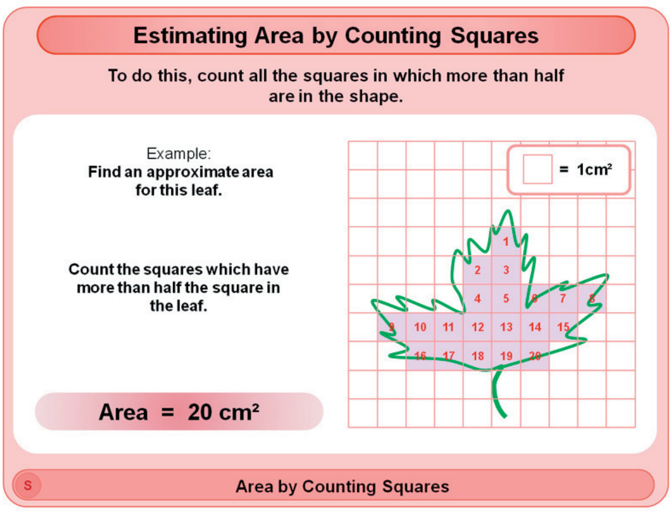
Shape: 3D Co-ordinates



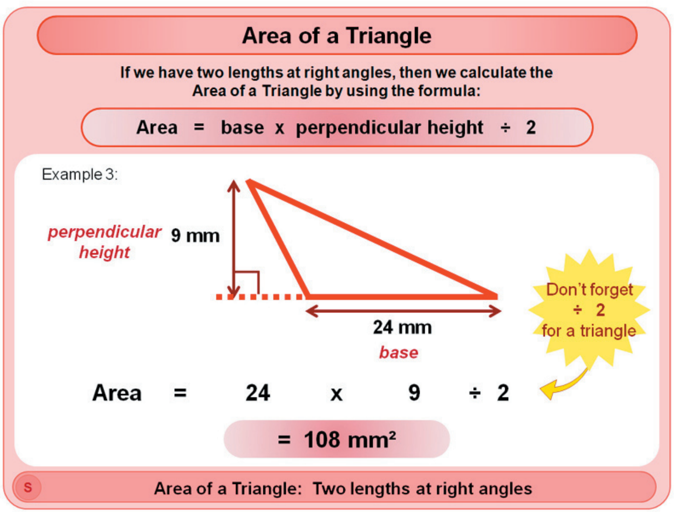
Shape: Angles: Calculating Angles



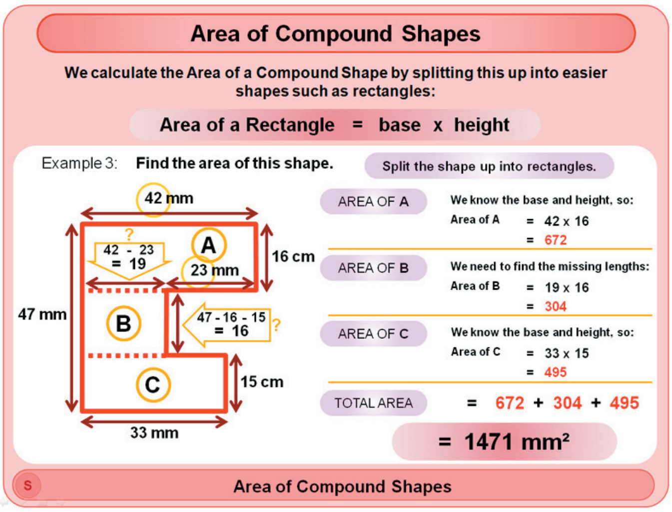
Shape: Angles: Measuring Angles



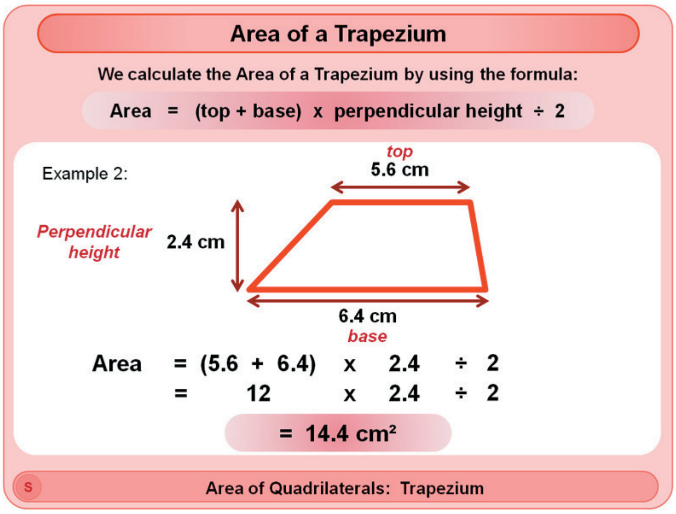
Shape: Area by Counting Squares



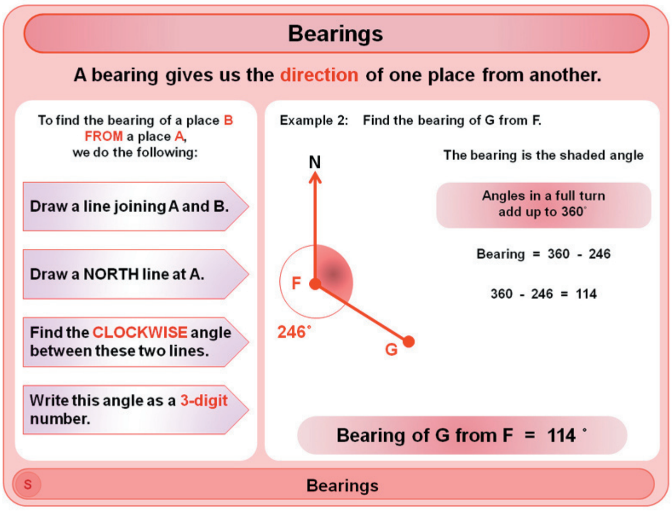
Shape: Area of a Triangle



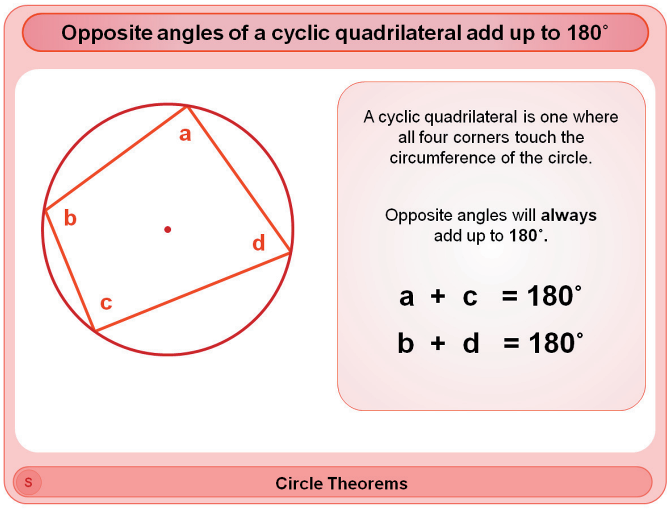
Shape: Area of Compound Shapes - Rectangles



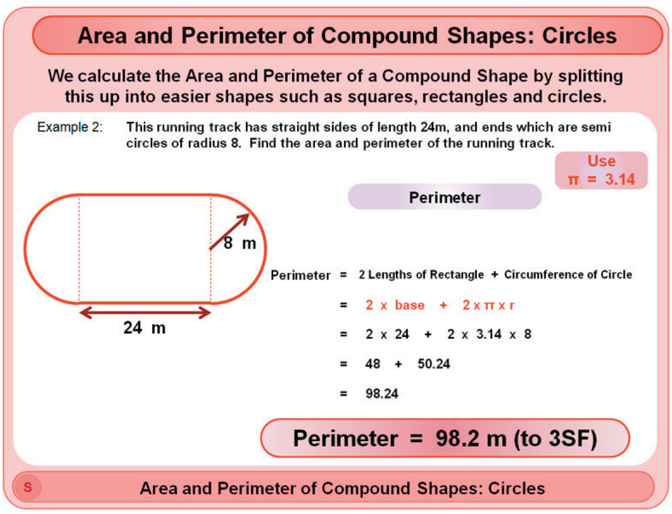
Shape: Area of Quadrilaterals



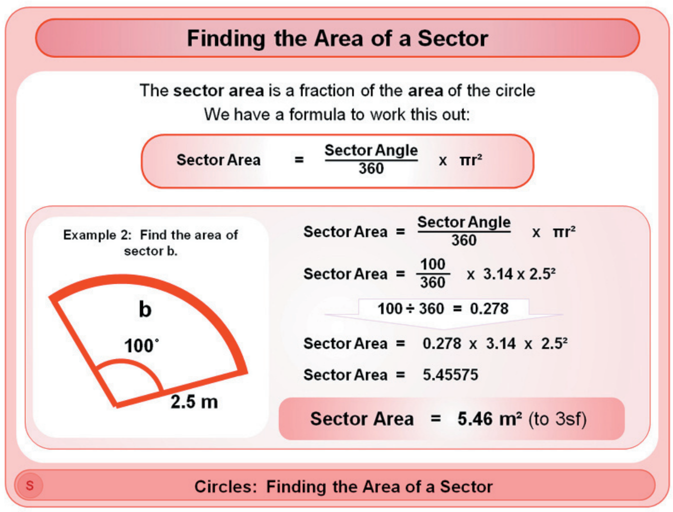
Shape: Bearings



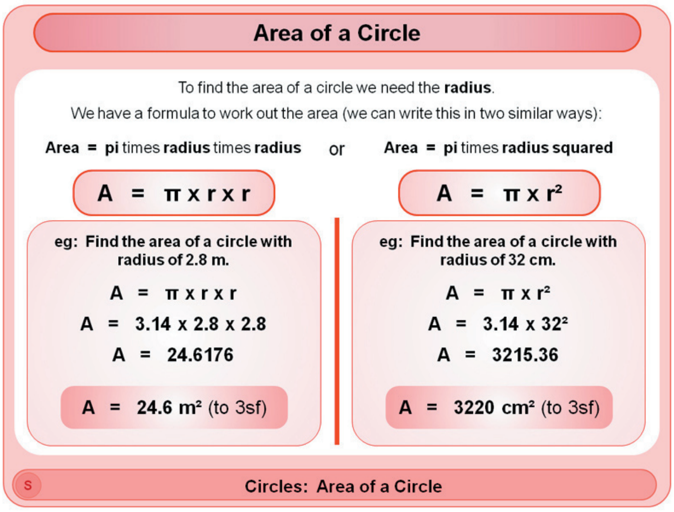
Shape: Circle Theorems



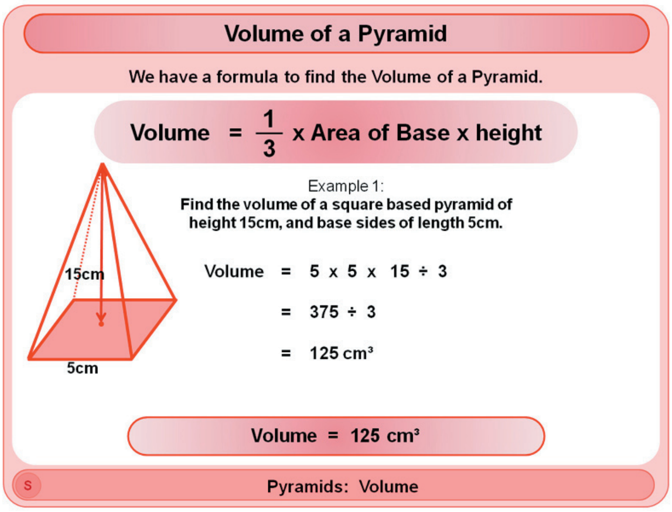
Shape: Circles - Compound Areas and Perimeters



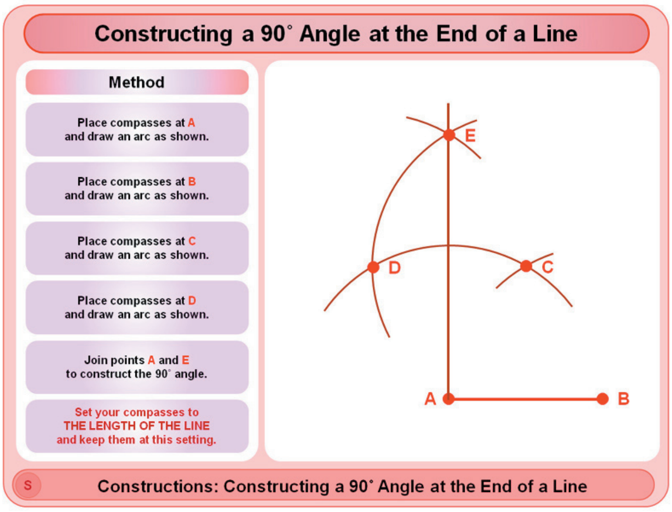
Shape: Circles - Finding Arc Length and Areas of Sectors



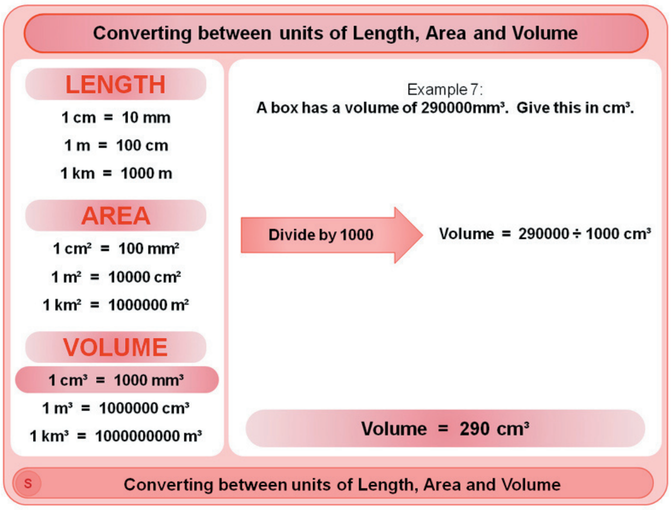
Shape: Circles - Parts, Lengths, Area



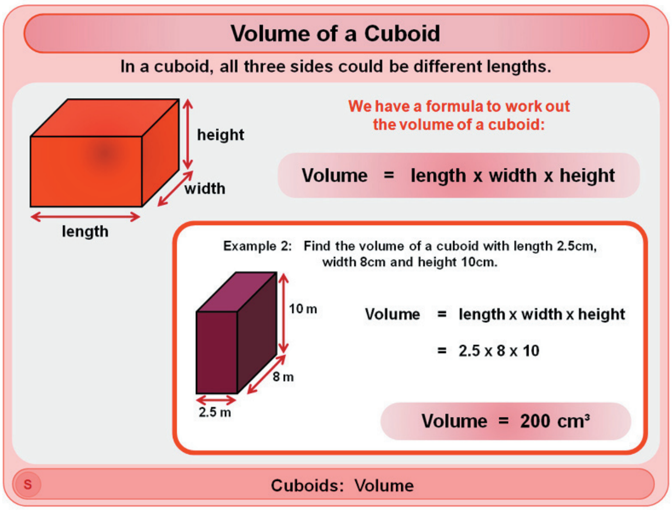
Shape: Cones and Pyramids - Surface Area and Volume



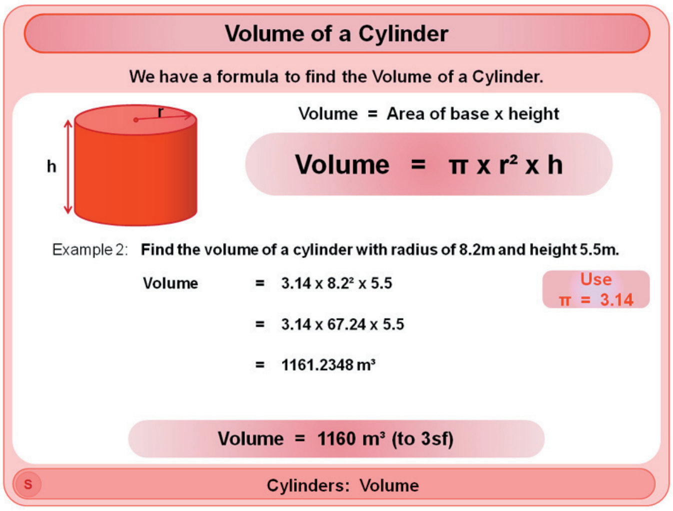
Shape: Constructions



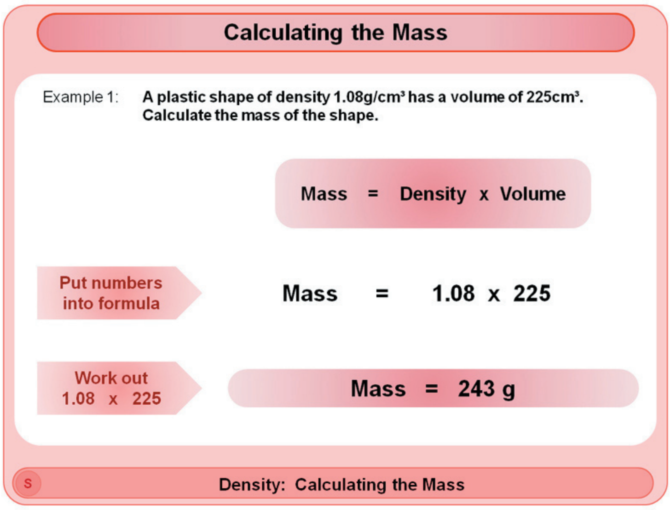
Shape: Converting between units of Length, Area and Volume



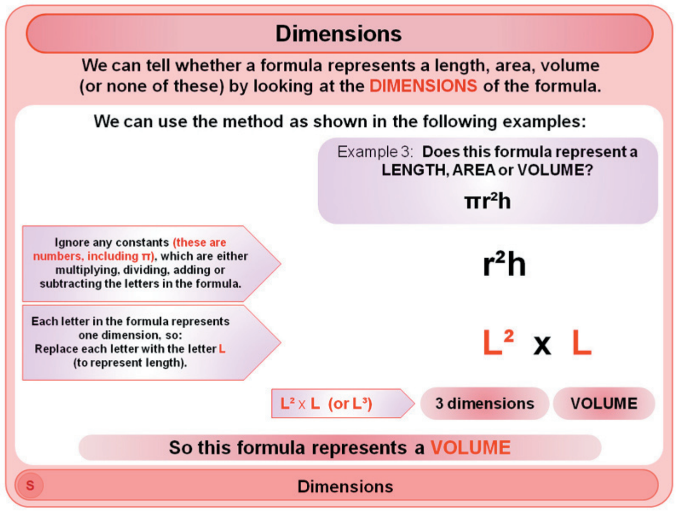
Shape: Cubes and Cuboids: Surface Area & Volume



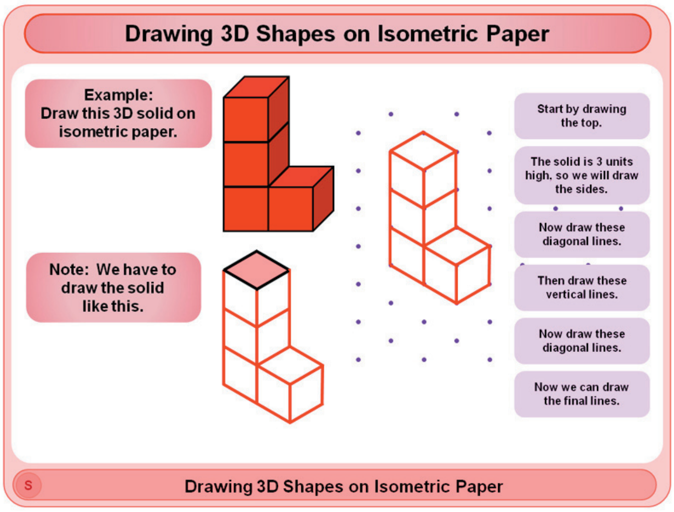
Shape: Cylinders: Surface Area & Volume



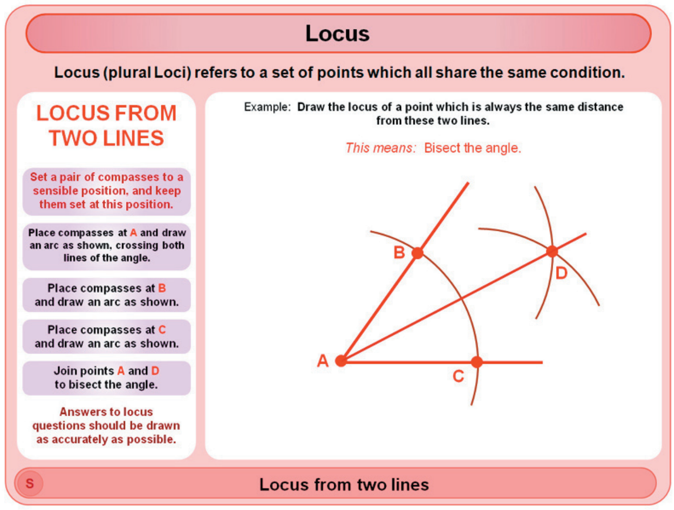
Shape: Density, Mass and Volume



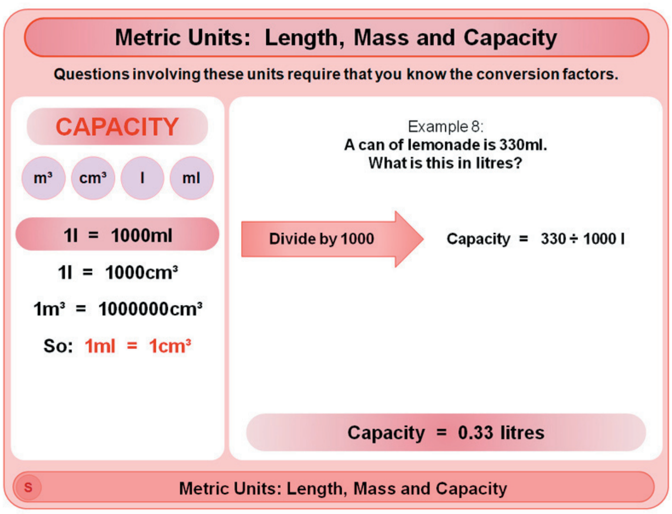
Shape: Dimensions



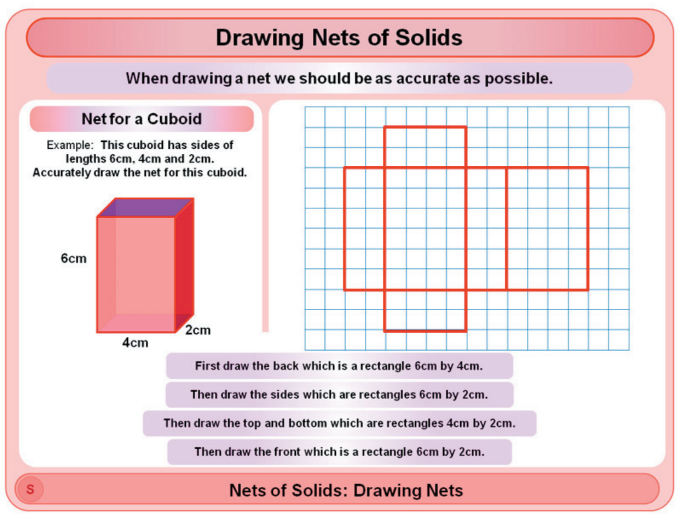
Shape: Drawing 3D Shapes on Isometric Paper



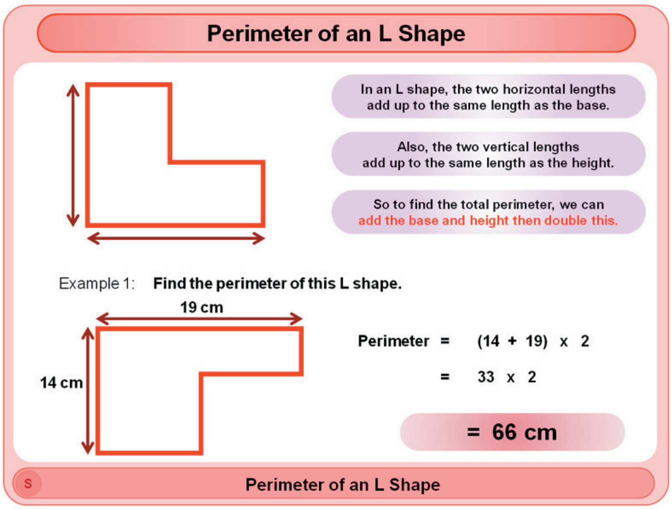
Shape: Locus



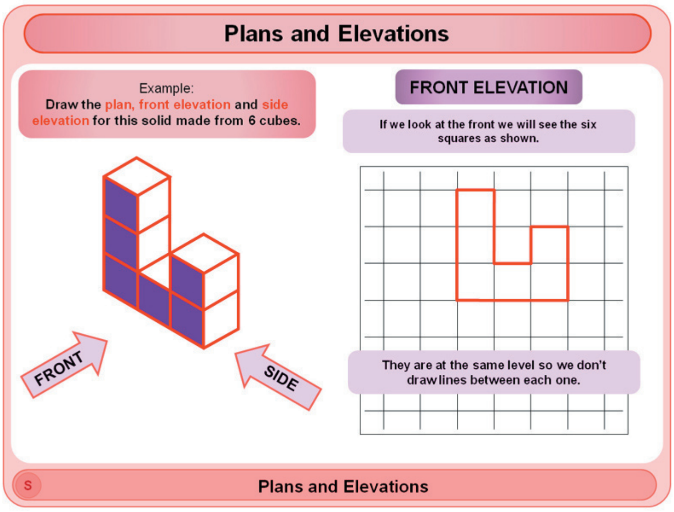
Shape: Metric and Imperial Units - Length, Mass and Capacity



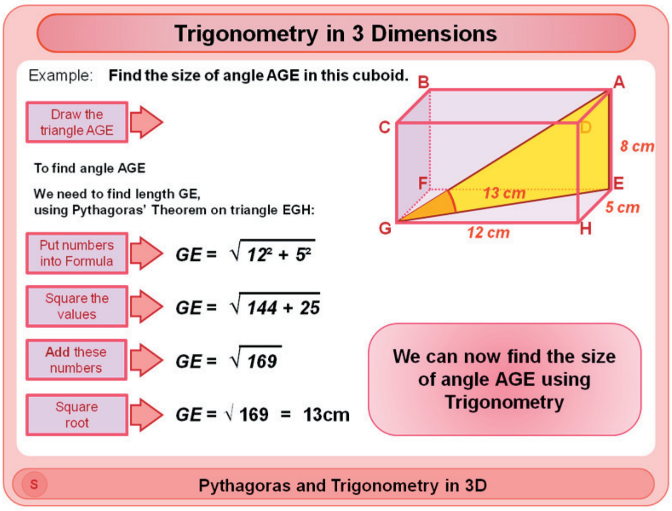
Shape: Nets of Solids



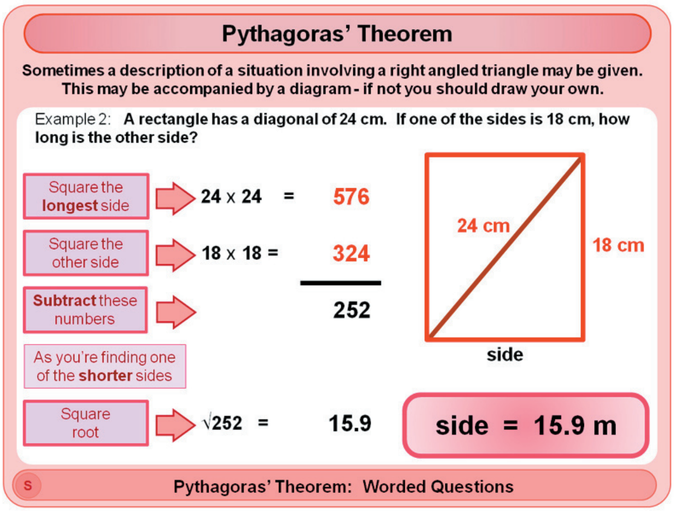
Shape: Perimeter of Rectangle and L Shape



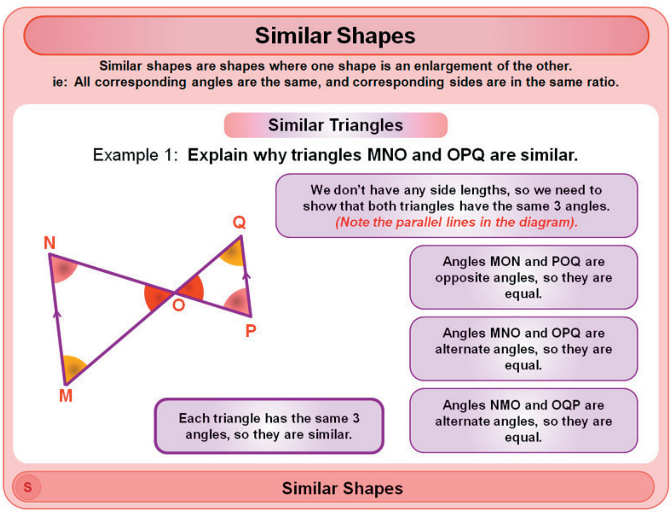
Shape: Plans and Elevations



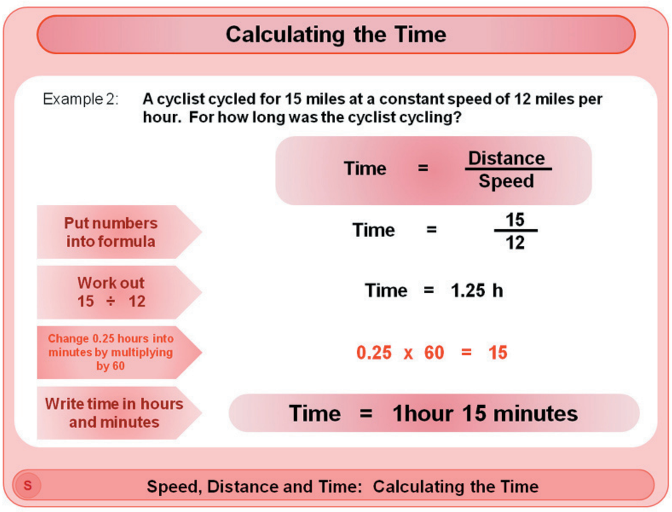
Shape: Pythagoras and Trigonometry in 3D



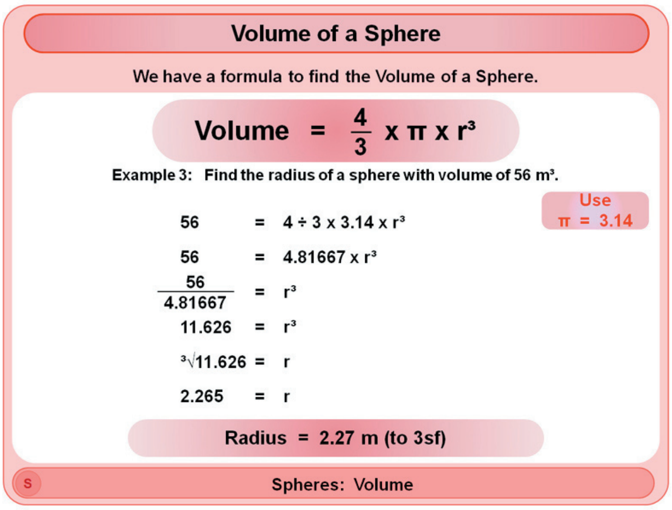
Shape: Pythagoras' Theorem



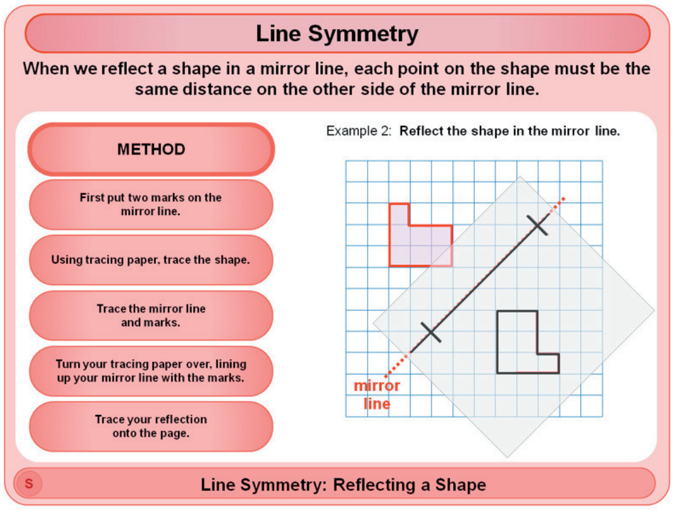
Shape: Similarity and Congruence



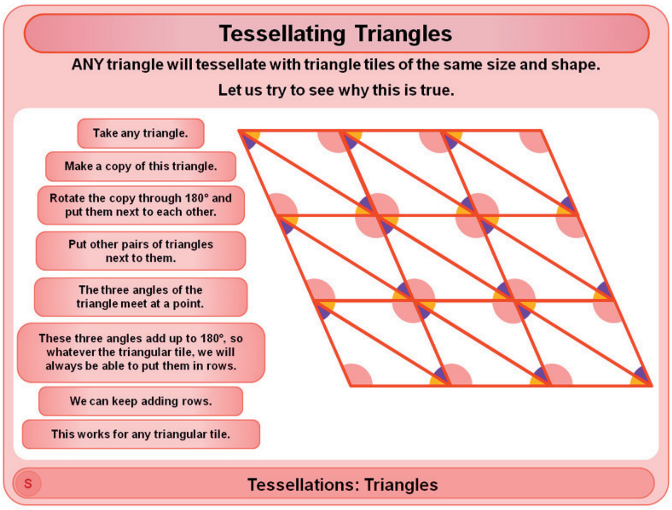
Shape: Speed, Distance and Time



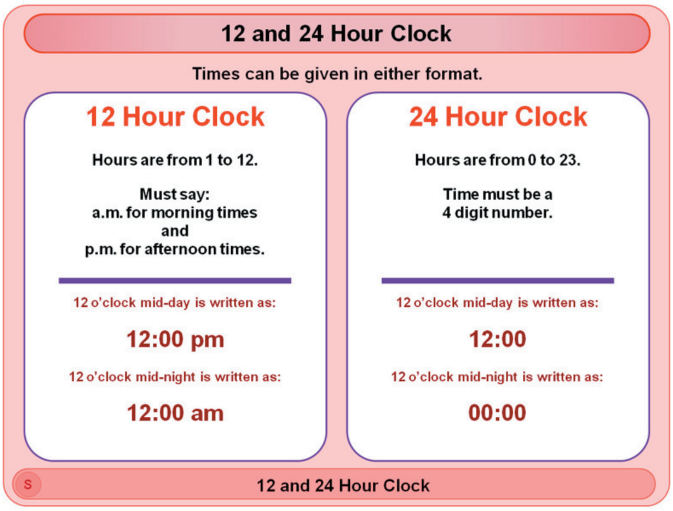
Shape: Spheres: Surface Area and Volume



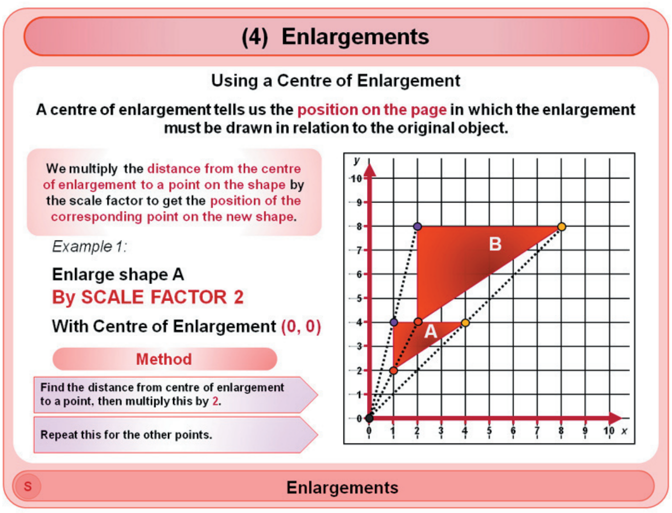
Shape: Symmetry



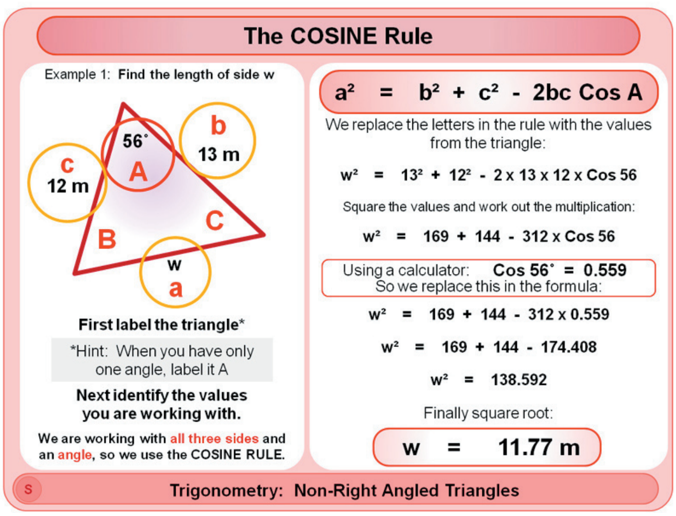
Shape: Tessellations



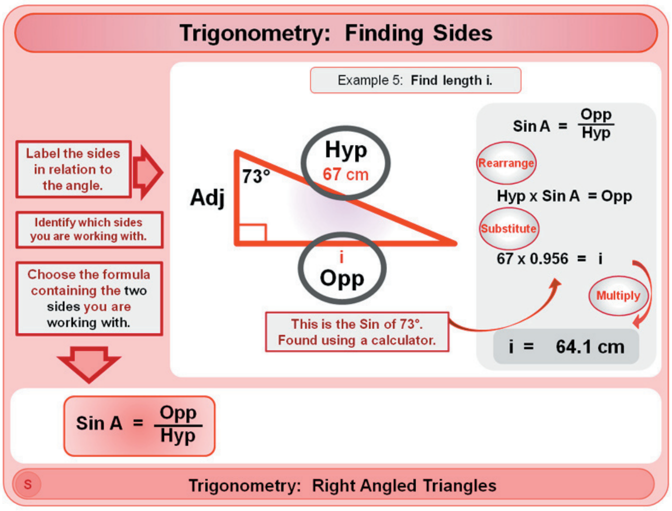
Shape: Time



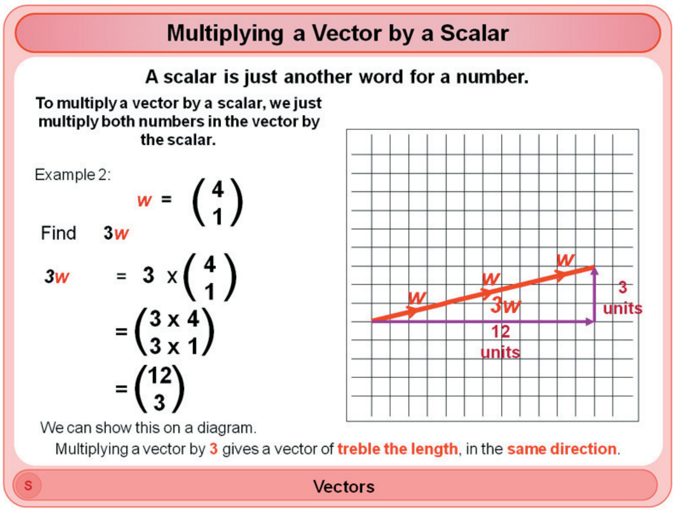
Shape: Transformations



Shape: Trigonometry - Non-Right Angled Triangles



Shape: Trigonometry - Right Angled Triangles



Shape: Vectors