

Calculate a missing angle in a right-angled triangle using Trigonometry.	Calculate a missing side of a right-angled triangle using Trigonometry.
Draw and interpret a cumulative frequency curve.	Draw and interpret a box-plot (box and whisker diagram).
Calculate the inter-quartile range of a set of data.	Use a tree-diagram for probability with replacement.

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PASSPORT
TO GCSE GRADE B

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Name: _____

Simplify fraction multiplication calculations.	Write a recurring decimal as a fraction.
Find the original price of an object before a percentage increase/decrease.	Use simple and compound interest. Compare the answers.
Simplify surd calculations.	Use the laws of indices when multiplying, dividing and with brackets.
Solve an equation involving an algebraic fraction.	Understand and use “the difference of two squares”.
Factorise a quadratic expression.	Solve quadratic equations using a graph or factorisation.
Change the subject of an equation.	Solve problems involving inequalities.

Solve simultaneous equations by elimination or substitution.	Solve simultaneous equations using a graph.
Show inequalities on a graph.	Substitute numbers into a cubic function (and draw the graph).
Know what a reciprocal to a function will look like, graphically.	Identify when an equations of straight lines will be parallel or perpendicular.
Sketch linear graphs.	Know and use the theorems about angles in a circle, created by different lines.
Calculate the volume and surface area of cylinders.	Identify and describe when one shape is similar to another.
Understand and use the conditions for congruence.	Enlarge a shape using a centre of enlargement with a negative scale factor.

