



Year 10 Raising Achievement Evening

Maths



Learning Behaviours in the next few weeks

- Complete all Sparx Homework – this will help with your revision
- Attend all lessons and work to the best of your ability in each one
- Make relevant notes from new material or revision topics
- Attempt as many questions that are set– particularly the more challenging questions that might require you to solve problems.
- Ask for help if needed



Key Revision Advice for the Year 10 Exams

- Use the Sparx homework website to select topics you struggled with in the recent papers in class/home
- Choose topics from the “Independent Learning” Section
- Complete all papers that are set for you, more can be found online
- Use websites such as Corbett Maths or Maths Genie

Exam					Grade								
Board	Month	Year	Tier	Total	9	8	7	6	5	4	3	2	1
Edexcel	June	2022	F	240					173	135	100	66	32
Edexcel	June	2022	H	240	194	165	137	104	71	38	21		



CREATING A CLIMATE FOR GREAT LEARNING,
SUCCESS AND OPPORTUNITY

Grade 4 | Key Knowledge

Compound Interest and Depreciation

Indices

Prime Factors, HCF and LCM

Real Life and Distance Time Graphs

Inequalities

Forming and Solving Equations

Sequences (Nth Term)

Expanding and Factorising

Pythagoras

Angles in Parallel Lines

Angles in Polygons

Surface Area

Volume of a Prism

Cylinders

Loci and Construction

Bearings

Plans and Elevations

Averages from Frequency Tables

Probability

Scatter Graphs

<https://www.mathsgenie.co.uk/gcse.html>

<https://corbettmaths.com/>

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Grade 5 | Key Knowledge

Writing a Ratio as a Fraction or Linear Function

Direct and Inverse Proportion

Reverse Percentages

Standard Form

Speed and Density

Changing the Subject of a Formula

Expanding and Factorising Quadratics

Solving Quadratics

Drawing Quadratic Graphs

Drawing Other Graphs: Cubic/Reciprocal

Simultaneous Equations

Solving Simultaneous Equations Graphically

Midpoint of a Line Segment

Gradient of a Line

Equation of a Line

Spheres and Cones

Sector Areas and Arc Lengths

Similar Shapes (Lengths)

SOHCAHTOA (Trigonometry)

Exact trig values

Vectors

Probability Trees

Venn Diagrams

<https://www.mathsgenie.co.uk/gcse.html>

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Grade 7 | Key Knowledge

Surds

Bounds

Direct and Inverse Proportion

Quadratic Formula

Factorising Harder Quadratics

Algebraic Fractions

Rearranging Harder Formulae

Trigonometric and Exponential Graphs

Inverse and Composite Functions

Iteration

Finding the Area of Any Triangle

The Sine Rule

The Cosine Rule

Congruent Triangles

3d Pythagoras and Trigonometry

Histograms

Conditional Probability

<https://www.mathsgenie.co.uk/gcse.html>



Grade 9 | Key Knowledge

[Quadratic Simultaneous Equations](#)

[Transforming Graphs \$y=f\(x\)\$](#)

[Proof](#)

[Completing the Square](#)

[The Nth Term of a Quadratic Sequence](#)

[Quadratic Inequalities](#)

[Velocity Time Graphs](#)

[Proof of the Circle Theorems](#)

[Perpendicular Lines and the equation of a tangent](#)

[Vectors Proof Questions](#)

[Probability Equation Questions](#)

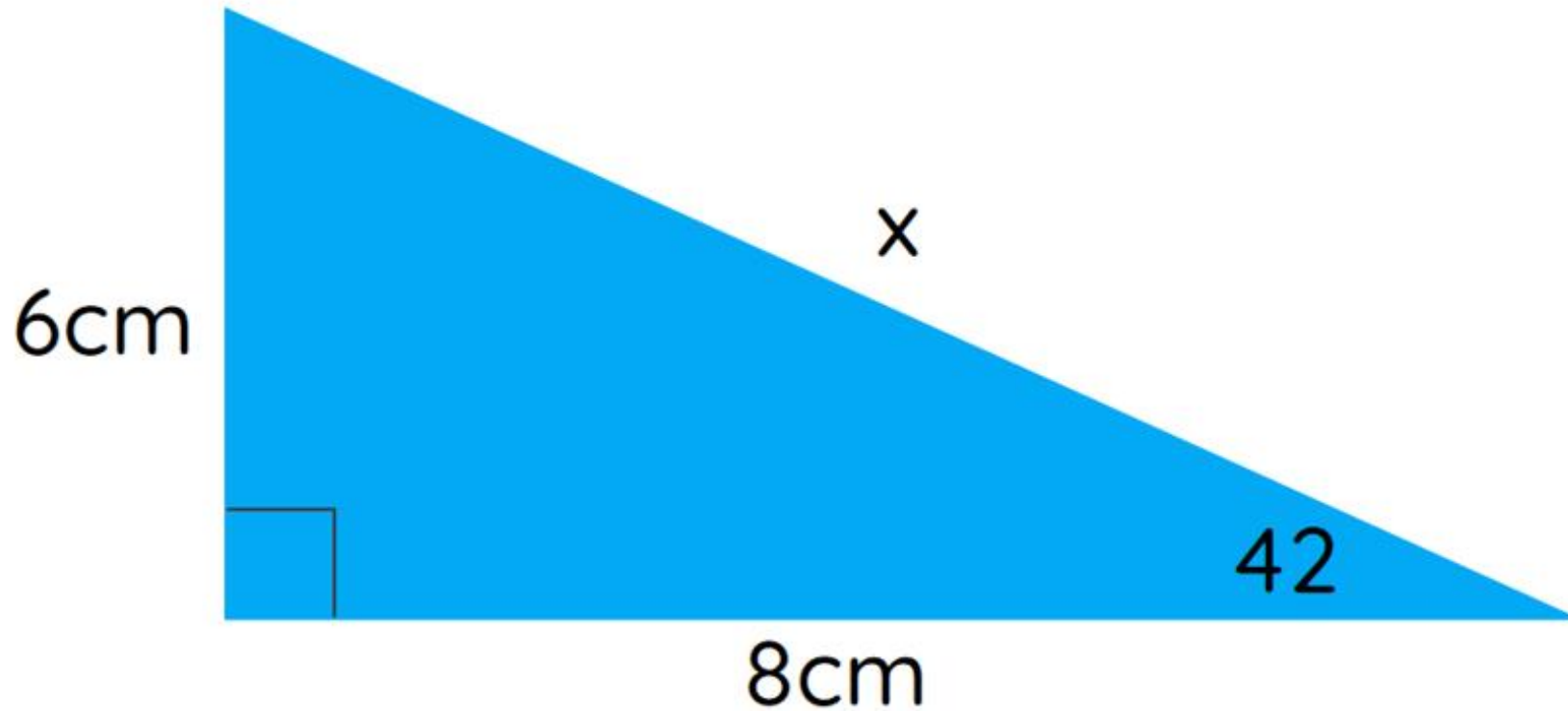
<https://www.mathsgenie.co.uk/gcse.html>

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Key Exam Skills

- Read each question thoroughly – underline key words if necessary
- Never leave a question blank – you get a score of zero if you write nothing!
- If you are not sure of what to do, look to see if there is anything that can be at least started – you might get 1 or 2 marks.
- Don't rush the early questions – make sure you give these your best shot.
- Check each answer carefully – have you actually answered the question?



The missing angle above is a replicated convulsion of the area of the triangle. Find the articulated manifold of the side length x .

(4)