

Igcse Maths Questions By Topic With Answers

igcse maths questions by topic with answers

Preparing for your IGCSE Maths exam can be a daunting task, but having access to a comprehensive collection of questions by topic with detailed answers can significantly boost your confidence and understanding. Whether you're revising algebra, geometry, or probability, practicing questions tailored to specific topics helps you identify areas of strength and weakness. This article provides an extensive compilation of IGCSE Maths questions categorized by topic, complete with step-by-step solutions, to support your effective revision and exam preparation.

Understanding IGCSE Maths Topics

The IGCSE Maths curriculum covers a broad range of topics that build foundational skills in mathematics. These topics are typically divided into core areas such as number, algebra, geometry, trigonometry, and statistics. Familiarity with each area is essential for

success in the exam, and practicing questions by topic ensures a well-rounded understanding.

Number and Numerical Methods

Key Concepts Covered:

- Basic operations and order of operations - Fractions, decimals, and percentages - Approximation and estimation - Surds and indices

Sample Questions with Answers:

1. **Question:** Simplify $\left(\frac{3}{4} + \frac{2}{3}\right)$.

Answer: Find a common denominator:

$\left(\frac{3}{4} = \frac{9}{12}\right)$, $\left(\frac{2}{3} = \frac{8}{12}\right)$ Sum: $\left(\frac{9}{12} + \frac{8}{12} = \frac{17}{12}\right)$ or $\left(1\frac{5}{12}\right)$.

2. **Question:** Convert 0.75 to a fraction in simplest form.

Answer: $\left(0.75 = \frac{75}{100} = \frac{3}{4}\right)$.

3. **Question:** Calculate 15% of 200. **Answer:** $\left(15\% \times 200 = \frac{15}{100} \times 200 = 0.15 \times 200 = 30\right)$.

Algebra

Key Concepts Covered:

- Simplifying algebraic expressions - Solving linear equations and inequalities - Quadratic equations and factorization - Sequences and algebraic proofs

Sample Questions with Answers:

- 1. Question:** Solve for x : $3x + 5 = 20$. **Answer:**
 $3x = 20 - 5 = 15$ $x = \frac{15}{3} = 5$.
- 2. Question:** Factorize $x^2 + 5x + 6$. **Answer:**
Find two numbers that multiply to 6 and add to 5: 2 and 3. $\Rightarrow (x + 2)(x + 3)$.
- 3. Question:** Find the n th term of the sequence: 3, 7, 11, 15. **Answer:** The pattern increases by 4 each time, starting at 3: $a_n = 4n - 1$. Check: for $(n=1)$, $(4(1)-1=3)$; for $(n=2)$, (7) , etc.

Geometry

Key Concepts Covered:

- Properties of angles (alternate, corresponding, supplementary) - Properties of triangles (isosceles, equilateral, right-angled) - Circle theorems -

Coordinate geometry and transformations

Sample Questions with Answers:

- Question:** Find the value of x in the diagram where two angles are supplementary: $(3x + 20)^\circ$ and $(2x + 40)^\circ$. **Answer:** $(3x + 20 + 2x + 40 = 180)^\circ \Rightarrow 5x + 60 = 180 \Rightarrow 5x = 120 \Rightarrow x = 24^\circ$.
- Question:** In $\triangle ABC$, angles A and B are equal. If angle A is 50° , find angle C . **Answer:** Since $A = B = 50^\circ$, $C = 180^\circ - (50^\circ + 50^\circ) = 80^\circ$.
- Question:** Find the equation of a circle with center at $(3, 4)$ and radius 5. **Answer:** Equation: $(x - 3)^2 + (y - 4)^2 = 25$.

Trigonometry

Key Concepts Covered:

- Sine, cosine, and tangent ratios
- Solving right-angled triangles
- Graphs of trigonometric functions
- Radians and degrees conversion

Sample Questions with Answers:

- Question:** In a right-angled triangle, if $\angle A = 30^\circ$ and side $a = 10$ cm (opposite $\angle A$), find the hypotenuse c . **Answer:** Using sine: $\sin 30^\circ = \frac{a}{c} \Rightarrow \frac{1}{2} = \frac{10}{c} \Rightarrow c = 10 \times 2 = 20$ cm.
- Question:** Calculate $\tan 45^\circ$. **Answer:** $\tan 45^\circ = 1$.
- Question:** A ladder makes a 60° angle with the ground and reaches a height of 8 meters. Find the length of the ladder. **Answer:** $\sin 60^\circ = \frac{\text{opposite}}{\text{hypotenuse}} \Rightarrow \frac{\sqrt{3}}{2} = \frac{8}{L} \Rightarrow L = \frac{8 \times 2}{\sqrt{3}} = \frac{16}{\sqrt{3}} \approx 9.24$ meters.

Coordinate Geometry and Graphs

Key Concepts Covered:

- Plotting points and lines - Equation of straight lines -
- Midpoints and distance between points - Gradient and equations of lines

Sample Questions with Answers:

- Question:** Find the midpoint between points $A(2, 3)$ and $B(6, 7)$. **Answer:** Midpoint $M = \left(\frac{2+6}{2}, \frac{3+7}{2}\right) = (4, 5)$.
- Question:** Write the equation of a line passing through $(1, 2)$ with a gradient of 3. **Answer:** Using $(y - y_1 = m(x - x_1))$: $(y - 2 = 3(x - 1))$ $(y - 2 = 3x - 3)$ $(y = 3x - 1)$.
- Question:** Calculate the distance between points $P(1, 2)$ and $Q(4, 6)$. **Answer:** Distance $(d = \sqrt{(4-1)^2 + (6-2)^2} = \sqrt{3^2 + 4^2} = \sqrt{9 + 16} = \sqrt{25} = 5)$.

Statistics and Probability

Key Concepts Covered:

- Data collection and representation - Averages (mean, median, mode) - Probability calculations - Charts and graphs interpretation

Sample Questions with Answers:

IGCSE Maths Questions by Topic with Answers: An In-Depth Review In the realm of secondary education,

the International General Certificate of Secondary Education (IGCSE) Maths examination stands as a pivotal milestone for students worldwide. This assessment not only tests mathematical proficiency but also emphasizes understanding, problem-solving, and application of concepts across various topics. As educators, students, and examiners seek to optimize preparation strategies, the availability of comprehensive resources—particularly questions categorized by topic with detailed answers—becomes invaluable. This article provides a thorough review of IGCSE Maths questions sorted by topics, offering insights into their structure, difficulty levels, and the pedagogical value they hold.

The Importance of Topic-Wise Practice in IGCSE Maths

Before delving into specific questions, it is essential to understand why practicing by topics is beneficial. Targeted Skill Development: Breaking down the syllabus into discrete topics like algebra, geometry, trigonometry, and probability allows students to identify their strengths and weaknesses. Focused practice helps in mastering core concepts before integrating them into complex problem-solving.

Efficient Revision: Topic-wise questions facilitate systematic revision, ensuring comprehensive coverage of the syllabus. Students can tailor their practice sessions to areas requiring improvement.

Exam Strategy and Confidence Building: Familiarity with the question styles and formats within each topic enhances confidence and improves exam performance. Practicing with real exam questions also helps in time management and strategic answering.

Categories of IGCSE Maths Questions by Topic

The IGCSE Maths syllabus is broad, covering a spectrum of mathematical disciplines. For clarity, questions are generally categorized into the following core topics: - Number and Numerical Methods - Algebra - Geometry - Trigonometry - Coordinate Geometry - Mensuration - Vectors - Probability and Statistics Below, each category is examined with representative questions, accompanied by detailed solutions.

Number and Numerical Methods

Overview: Questions in this area test understanding of basic arithmetic, fractions, decimals, percentages, ratios, and approximation techniques. Sample

Question 1: A shop sells a jacket at a 25% discount. If the discounted price is \$60, what was the original price? Answer: Let the original price be (P) .

Discounted price = $(P - 25\% \times P = 75\% \times P)$ Set up the equation: $[75\% \times P = 60]$

$[\frac{75}{100} \times P = 60]$ $[P = \frac{60 \times 100}{75} = \frac{6000}{75} = 80]$ Original price =

\$80 Sample Question 2: Express 0.36 as a simplified fraction. Answer: $0.36 = (\frac{36}{100})$ Divide

numerator and denominator by 4: $(\frac{36 \div 4}{100 \div 4} = \frac{9}{25})$ Simplified fraction = $(\frac{9}{25})$

Algebra

Overview: Questions involve solving equations, inequalities, manipulating algebraic expressions, and understanding functions. Sample Question 1: Solve

for (x) : $(3x + 5 = 2x - 7)$. Answer: Subtract $(2x)$ from both sides: $[3x - 2x + 5 = -7]$ $[x + 5 = -7]$

Subtract 5 from both sides: $[x = -7 - 5 = -12]$

Sample Question 2: Factorize $(2x^2 + 8x)$. Answer:

Find the common factor: $[2x(x + 4)]$

Geometry

Overview: Topics include angles, triangles, quadrilaterals, circles, and coordinate geometry.

Sample Question 1: In a triangle, two angles measure 35° and 75° . Find the third angle. Answer: Sum of angles in a triangle = 180° Third angle = $(180^\circ - (35^\circ + 75^\circ) = 180^\circ - 110^\circ = 70^\circ)$

Sample Question 2: Calculate the area of a rectangle measuring 12 cm by 9 cm. Answer: Area = length $\times$ width = $(12 \times 9 = 108) \text{ cm}^2$

Trigonometry

Overview: Questions test understanding of sine, cosine, tangent ratios, and their applications in right-angled triangles.

Sample Question 1: In a right-angled triangle, the angle (θ) is 30° , and the hypotenuse is 10 cm. Find the length of the side opposite (θ) . Answer: Using sine: $[\sin 30^\circ = \frac{\text{opposite}}{\text{hypotenuse}}] [\frac{1}{2} = \frac{\text{opposite}}{10}] [\text{Opposite} = 10 \times \frac{1}{2} = 5 \text{ cm}]$

Sample Question 2: A ladder leans against a wall at an angle of 60° . The foot of the ladder is 4

meters from the wall. What is the length of the ladder? Answer: Using cosine: $\cos 60^\circ = \frac{\text{adjacent}}{\text{hypotenuse}}$ $\frac{1}{2} = \frac{4}{L}$ $L = \frac{4}{\frac{1}{2}} = 4 \times 2 = 8$ meters

Coordinate Geometry

Overview: Questions involve plotting points, calculating distances, midpoints, and slopes. Sample Question 1: Find the distance between points $A(2, 3)$ and $B(6, 7)$. Answer: Distance formula: $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2} = \sqrt{(6 - 2)^2 + (7 - 3)^2} = \sqrt{4^2 + 4^2} = \sqrt{16 + 16} = \sqrt{32} = 4\sqrt{2}$ Sample Question 2: Calculate the midpoint of the segment joining $(1, 4)$ and $(5, 8)$. Answer: Midpoint M : $\left(\frac{1 + 5}{2}, \frac{4 + 8}{2}\right) = (3, 6)$

Mensuration

Overview: Focus on surface area, volume of 3D shapes such as cylinders, cones, spheres, and prisms. Sample Question 1: Calculate the volume of a cylinder with radius 3 cm and height 10 cm. Answer: $V = \pi r^2 h = \pi \times 3^2 \times 10 = \pi \times 9 \times 10$

$10 = 90\pi \text{ cm}^3$ Approximate: $[90 \times 3.1416 \approx 282.74 \text{ cm}^3]$ Sample Question 2: Find the surface area of a sphere with radius 5 m. Answer: Surface area $(A = 4\pi r^2) [4 \pi \times 25 = 100 \pi]$ Approximate: $[100 \times 3.1416 \approx 314.16 \text{ m}^2]$

Vectors

Overview: Questions involve vector addition, subtraction, and scalar multiplication, often in the context of geometry and physics. Sample Question 1: Given vectors $(\vec{A} = (2, 3))$ and $(\vec{B} = (4, -1))$, find $(\vec{A} + \vec{B})$. Answer: $[(2 + 4, 3 + (-1)) = (6, 2)]$ Sample Question 2: Calculate the scalar product of $(\vec{A} = (1, 2))$ and $(\vec{B} = (3, 4))$. Answer: $[(1 \times 3) + (2 \times 4) = 3 + 8 = 11]$

Probability and Statistics

Overview: Questions test understanding of probability calculations, averages, median, mode, and data interpretation. Sample Question 1: A bag contains 5 red, 3 blue, and 2 green balls. What is the probability of randomly selecting a blue ball? Answer: Total balls =

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Questions & Answers About igcse maths questions by topic with answers

No	Question	Answer
1	How can I effectively practice IGCSE Maths questions by topic?	To practice effectively, focus on one topic at a time, use past papers and topic-specific questions, and review solutions thoroughly to understand your mistakes.
2	What are some common topics in IGCSE Maths that students struggle with?	Students often find topics like algebra, coordinate geometry, and trigonometry challenging, so practicing these areas with targeted questions can help improve understanding.
3	Where can I find reliable IGCSE Maths questions with answers organized by topic?	Reliable resources include official past papers, revision websites like Save My Exams, and textbooks that provide topic-wise questions with step-by-step solutions.

4	How should I approach solving IGCSE Maths questions by topic to maximize my marks?	Start by understanding the fundamental concepts of each topic, then practice a variety of questions, and ensure you learn the correct methods and common question patterns to efficiently solve them during exams.
5	Are there online platforms that offer categorized IGCSE Maths questions with answers for free?	Yes, platforms like Khan Academy, ExamSolutions, and Save My Exams provide free categorized questions and detailed answers tailored for IGCSE Maths revision.

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future revisions.

Planning before creating a PDF

Effective PDFs begin with proper planning. Before creating a PDF, it is important to define its purpose and audience. Documents intended for casual reading may require a different structure than those used for academic or professional reference. Understanding how readers will use Igcse Maths Questions By Topic With Answers helps determine layout, navigation, and level of detail.

Organizing content logically before export also saves time. Clear headings, consistent sections, and well-structured paragraphs translate better into PDF format. Planning reduces formatting issues and ensures that the final PDF remains easy to navigate and understand.

Choosing the right source format

The quality of a PDF depends heavily on the source file. Using clean, well-formatted documents as the starting point minimizes conversion errors. Popular formats such as word processors, design software, or markup-based editors can all produce high-quality PDFs when prepared correctly.

When creating Igcse Maths Questions By Topic With Answers, ensuring consistent fonts, margins, and spacing in the source file leads to a more polished PDF. Avoid excessive styling or unsupported fonts that may cause display issues on certain devices.

Exporting PDFs with optimal settings

Export settings play a critical role in PDF quality. Choosing the correct resolution balances clarity and file size. For text-heavy documents like Igcse Maths Questions By Topic With Answers, prioritizing text clarity over image resolution often results in better performance and readability.

Embedding fonts ensures consistent appearance across devices. Without embedded fonts, text may render differently or substitute default fonts, altering layout and readability. Proper export settings preserve the original design and intent of the document.

Editing PDF documents efficiently

Although PDFs are designed to be stable, editing may still be necessary. Using professional PDF editing tools allows for text corrections, image replacement, and layout adjustments without recreating the entire

file. Careful editing maintains the integrity of Igcse Maths Questions By Topic With Answers while addressing updates or corrections.

When extensive changes are required, it is often more efficient to edit the original source file and re-export the PDF. This approach prevents accumulated errors and ensures consistency throughout the document.

Maintaining consistent formatting

Consistency improves readability and user trust. Uniform headings, spacing, and typography make PDFs easier to scan and reference. When readers engage with Igcse Maths Questions By Topic With Answers, consistent formatting helps them focus on content rather than layout distractions.

Using styles instead of manual formatting in the source file supports consistency and simplifies updates. Structured documents convert more reliably into high-quality PDFs.

Enhancing navigation and structure

Navigation is essential for long PDFs. Including bookmarks, internal links, and a clickable table of contents transforms a static document into an

interactive resource. These features are particularly valuable for extensive materials like Igcse Maths Questions By Topic With Answers.

Logical sectioning also supports better navigation. Breaking content into manageable sections with clear headings improves usability and reduces reader fatigue during long sessions.

Optimizing PDFs for different devices

Users access PDFs on a wide range of devices, from large desktop monitors to small smartphone screens. Designing PDFs with flexibility in mind ensures accessibility across platforms. Reasonable font sizes, clear contrast, and adaptable layouts make Igcse Maths Questions By Topic With Answers more user-friendly.

Testing PDFs on multiple devices helps identify potential issues early. Adjustments made during testing improve the overall experience and reduce user complaints.

Managing file size and performance

Large PDF files can be inconvenient to download, store, and open. Optimizing file size improves

performance without sacrificing quality. Compressing images, removing unused elements, and optimizing fonts help keep Igcse Maths Questions By Topic With Answers efficient and responsive.

Smaller file sizes also improve sharing and reduce bandwidth usage, making PDFs more accessible to users with limited internet connections.

Version control and document updates

As documents evolve, managing versions becomes increasingly important. Clear version naming prevents confusion and ensures users know which edition of Igcse Maths Questions By Topic With Answers they are accessing. Including version numbers or update dates in filenames supports transparency and organization.

Maintaining a changelog helps document revisions and provides context for updates. This practice is especially useful in professional and collaborative environments.

Ensuring document security

PDFs support security features that protect content integrity. Password protection, restricted editing, and

controlled printing options help prevent unauthorized changes to Igcse Maths Questions By Topic With Answers. These measures are useful when distributing sensitive or official documents.

Security settings should align with the document's purpose. Over-restricting access may frustrate legitimate users, while insufficient protection may expose content to misuse.

Accessibility and inclusive design

Accessible PDFs ensure that content can be used by individuals with diverse needs. Using selectable text, structured headings, and alternative text for images supports screen readers and assistive technologies. When Igcse Maths Questions By Topic With Answers follows accessibility standards, it reaches a broader audience.

Accessibility improvements often enhance usability for all readers by improving structure, clarity, and navigation throughout the document.

Quality assurance before distribution

Before publishing or sharing a PDF, reviewing the document carefully is essential. Checking for broken

links, formatting errors, and missing content helps maintain professionalism. Quality assurance ensures that Igcse Maths Questions By Topic With Answers meets expectations and avoids unnecessary revisions after release.

Proofreading text and verifying layout consistency across devices further improves reliability and reader satisfaction.

Long-term maintenance and storage

Maintaining PDFs over time requires regular review and backups. Storing multiple copies of Igcse Maths Questions By Topic With Answers in different locations protects against data loss. Cloud storage and external drives provide additional security for long-term preservation.

Periodically reviewing stored PDFs ensures compatibility with modern software and standards. Updating files when necessary prevents obsolescence and preserves accessibility.

Professional and academic considerations

In professional and academic contexts, PDFs often serve as official references. Clear formatting,

accurate metadata, and reliable structure increase credibility. When sharing Igcse Maths Questions By Topic With Answers, attention to detail reflects professionalism and care.

Including proper citations, references, and consistent formatting supports academic integrity and enhances the document's value as a reference resource.

Future-proofing PDF documents

Although PDFs are stable, technology continues to evolve. Using widely supported features and avoiding proprietary extensions improves long-term compatibility. Regularly reviewing tools and standards helps keep Igcse Maths Questions By Topic With Answers usable across future platforms.

Future-proofing also involves maintaining editable source files alongside PDFs. This practice allows efficient updates and ensures adaptability as requirements change.

Final thoughts on PDF creation and maintenance

Creating and maintaining high-quality PDFs requires thoughtful planning, consistent formatting, and

ongoing care. By applying best practices throughout the document lifecycle, users can maximize the effectiveness of Igcse Maths Questions By Topic With Answers. Well-managed PDFs remain reliable, accessible, and professional tools that support communication, learning, and long-term documentation.