

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 $\frac{3}{4} + \frac{2}{3}$. **Answer:** Find a common denominator: $\frac{3}{4} = \frac{9}{12}$, $\frac{2}{3} = \frac{8}{12}$. Sum: $\frac{9}{12} + \frac{8}{12} = \frac{17}{12}$ or $1\frac{5}{12}$.
2. **Question:** Convert 0.75 to a fraction in simplest form. **Answer:** $0.75 = \frac{75}{100} = \frac{3}{4}$.
3. **Question:** Calculate 15% of 200. **Answer:** $15\% \times 200 = \frac{15}{100} \times 200 = 0.15 \times 200 = 30$.

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:

1. **Question:** Find the value of (x) in the diagram where two angles are supplementary: $(3x + 20^\circ)$ and $(2x + 40^\circ)$.

Answer: $(3x + 20 + 2x + 40 = 180^\circ) \Rightarrow 5x + 60 = 180 \Rightarrow 5x = 120 \Rightarrow x = 24^\circ$.

2. **Question:** In $(\triangle ABC)$, angles (A) and (B) are equal. If angle (A) is (50°) , find angle (C) . **Answer:** Since $(A = B = 50^\circ)$, $(C = 180^\circ - (50^\circ + 50^\circ) = 80^\circ)$.

3. **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 $(y - y_1) = m(x - x_1)$: $y - 2 =$

$$3(x - 1) \quad (y - 2 = 3x - 3) \quad (y = 3x - 1).$$

3. **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 = $(12 \times 9 = 108)$ cm²

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:

$[\cos 60^\circ = \frac{\text{adjacent}}{\text{hypotenuse}}]$ $[\frac{1}{2} = \frac{4}{L}]$ $[L = \frac{4}{\frac{1}{2}} = 4 \times 2 = 8 \text{ meters}]$

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) : $[\left(\frac{1 +$

$$5\} \{2\}, \frac{4 + 8}{2} \right) = (3, 6) \setminus$$

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:

$$\setminus V = \pi r^2 h = \pi \times 3^2 \times 10 = \pi \times 9 \times 10 = 90\pi \text{ cm}^3 \setminus$$

Approximate: $\setminus 90 \times 3.1416 \approx$

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

Vectors

Overview: Questions involve vector addition, subtraction, and scalar multiplication, often in the context of geometry and physics. Sample

Question 1: Given vectors $\setminus (\vec{A} = (2, 3) \setminus)$ and $\setminus (\vec{B} = (4, -1) \setminus)$, find $\setminus (\vec{A} + \vec{B}) \setminus$. Answer: $\setminus (2 + 4, 3 + (-1)) = (6, 2) \setminus$

Sample Question 2: Calculate the scalar product of $\setminus (\vec{A} = (1, 2) \setminus)$ and $\setminus (\vec{B} = (3, 4) \setminus)$. Answer: $\setminus (1 \times 3) + (2 \times 4) = 3 + 8 = 11 \setminus$

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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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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Organizations adopt Igcse Maths Questions By Topic With Answers eBooks to reduce training costs.

Baseline knowledge supports independent research.

Font size, spacing, and display options enhance comfort and focus.

Igcse Maths Questions By Topic With Answers eBooks help learners organize complex ideas.

Businesses leverage Igcse Maths Questions By Topic With Answers eBooks to onboard new employees efficiently and consistently.

Troubleshooting Common Issues

Even with proper preparation and organization, users may occasionally encounter issues when working with Igcse Maths Questions By Topic With Answers in digital formats. Understanding common problems and their solutions helps minimize disruption and ensures a smooth reading, study, or research experience.

Troubleshooting skills are especially valuable for long-term users who rely on digital libraries daily.

One of the most common issues is file compatibility. Sometimes Igcse Maths Questions By Topic With Answers may not open correctly on a specific device or application. This can result from outdated software, unsupported formats, or corrupted files. Updating the reading application or trying an alternative reader often resolves the issue. If the problem persists, re-downloading the file from a trusted source is recommended.

Another frequent problem involves formatting inconsistencies. Text misalignment, missing images, or broken layouts can occur when files are converted between formats. Using professional conversion tools and reviewing files after conversion helps prevent these issues. Maintaining an original master copy also ensures that users can

revert to a reliable version if errors occur.

Handling corrupted or incomplete files

Corrupted files may fail to open, display errors, or load only partially. These issues often result from interrupted downloads or storage errors. Verifying file size, checking download completion, and comparing files against official versions can help identify corruption. Re-downloading from a verified source is usually the quickest solution.

Performance and loading problems

Large files may load slowly, particularly on older devices or limited hardware. Compressing Igcse Maths Questions By Topic With Answers without sacrificing quality improves performance. Splitting large documents into smaller sections can also enhance navigation and responsiveness.

Annotation and sync issues

Users may experience lost annotations or unsynced notes when switching devices. Ensuring that cloud sync is enabled and accounts are properly logged in helps maintain continuity. Regularly exporting annotations provides an additional safety layer for important notes.

Best Practices for Everyday Use

Establishing good daily habits reduces the likelihood of technical issues and improves overall efficiency when using Igcse Maths Questions By Topic With Answers. Simple practices, when applied consistently, create a stable and productive digital environment.

Organizing files immediately after download prevents clutter and confusion. Assigning files to the correct folders and renaming them

clearly saves time in the future. Regular maintenance sessions—such as weekly or monthly reviews—help keep the library clean and up to date.

Keeping software updated is another essential practice. Updates often include bug fixes, performance improvements, and enhanced compatibility. Staying current ensures that Igcse Maths Questions By Topic With Answers functions smoothly across devices and platforms.

Security and privacy awareness

Avoid opening files from unknown or unverified sources. Even if a file claims to contain Igcse Maths Questions By Topic With Answers, it may include malware or unwanted scripts. Using antivirus software and trusted platforms protects both data and devices.

Optimizing the reading experience

Adjusting display settings such as font size, background color, and brightness improves comfort and reduces eye strain. Comfortable reading environments support longer sessions and better comprehension, especially for extensive materials.

Advanced problem prevention

Preventive measures reduce the need for troubleshooting altogether. Maintaining backups, using stable file formats, and documenting changes create a resilient system that withstands technical challenges.

Version tracking prevents confusion when multiple editions exist. Clearly labeled files and documented updates ensure that users always know which version they are using and why. This practice is particularly important in collaborative or academic environments.

When to seek support

If issues persist despite troubleshooting, consulting official documentation or support forums can provide solutions. Many platforms offer detailed guides, FAQs, and community discussions addressing common problems. Reaching out to official support channels ensures accurate and secure assistance.

Future-proofing your use of Igcse Maths Questions By Topic With Answers

Technology continues to evolve, and future-proofing ensures long-term access. Using widely supported formats, maintaining updated backups, and periodically reviewing compatibility help protect against obsolescence. These strategies safeguard investments in digital learning and research materials.

Final thoughts on troubleshooting and best practices

Troubleshooting is an essential skill for maximizing the value of Igcse Maths Questions By Topic With Answers. By understanding common issues, applying best practices, and adopting preventive strategies, users can maintain a smooth and reliable digital experience. With proper care, Igcse Maths Questions By Topic With Answers remains a dependable resource that supports learning, research, and professional growth without unnecessary interruptions.