

Igcse maths questions by topic with answers

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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 = $(12 \times 9 = 108)$ 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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One of the most important tips is to break your reading into manageable sessions. Long, uninterrupted reading on a screen can strain the eyes and reduce concentration. Instead of reading for several hours at once, divide your time into shorter sessions with regular breaks. This approach helps maintain focus, improves understanding, and prevents mental exhaustion. Using techniques such as the Pomodoro method—reading for 25–30 minutes followed by a short break—can be particularly effective.

Using bookmarks is another simple yet powerful habit. Most digital reading platforms allow you to bookmark chapters, sections, or specific pages. Bookmarks make it easy to return to important parts of Igcse Maths Questions By Topic With Answers without scrolling or searching manually. This is especially useful for long documents, study materials, or reference-based reading where you may need to revisit certain sections frequently.

Highlighting key points and adding annotations can significantly improve comprehension. Digital highlights allow you to visually mark important ideas, definitions, or summaries. Adding notes in your own words helps reinforce understanding and creates a personalized study guide. Over time, these highlights and annotations turn Igcse Maths Questions By Topic With Answers into an interactive learning resource rather than passive reading material.

Adjusting screen settings plays a crucial role in reading comfort. Most reading apps allow you to customize font size, font style, line spacing, and background color. Increasing font size and line spacing can reduce eye strain, while using dark mode or sepia backgrounds may improve readability in low-

light environments. Adjusting screen brightness to match ambient lighting further enhances comfort and protects eye health during long reading sessions.

Creating a focused reading environment

A distraction-free environment improves reading efficiency and enjoyment. When reading *Igcse Maths Questions By Topic With Answers*, try to minimize notifications from messaging apps or social media. Many devices offer “focus mode” or “do not disturb” settings that help maintain concentration. Choosing a quiet, comfortable location with proper lighting also contributes to a better reading experience.

For study or professional reading, setting clear goals before starting can be beneficial. Decide whether you are reading for general understanding, detailed analysis, or quick reference. Clear objectives help guide how deeply you engage with the content and which sections deserve closer attention.

Access Formats

Igcse Maths Questions By Topic With Answers is often available in multiple formats, each offering unique advantages. Understanding these formats helps you choose the one that best matches your

preferences, devices, and reading habits.

PDF format:

PDF is one of the most common formats for Igcse Maths Questions By Topic With Answers. It preserves the original layout, fonts, and images, ensuring consistency across devices. PDFs are ideal for documents with structured layouts, charts, or academic formatting. They work well on computers and tablets but may require zooming on smaller screens. Annotation and highlighting tools are widely supported in PDF readers, making this format suitable for study and professional use.

ePub format:

ePub is a flexible and reflowable format designed for eReaders and mobile devices. Text automatically adjusts to different screen sizes, allowing comfortable reading on smartphones and dedicated eReaders. If you prioritize readability and customization, ePub is often the best choice for reading Igcse Maths Questions By Topic With Answers on the go. However, complex layouts may not always appear exactly as intended.

Audiobook format:

Audiobooks offer an alternative way to experience Igcse Maths Questions By Topic With Answers content. Instead of reading text, users listen to narrated versions. Audiobooks are ideal for multitasking, commuting, or users who prefer auditory learning. While they do not allow highlighting or visual reference, they provide accessibility and convenience for busy lifestyles.

Selecting the right format depends on your device, reading goals, and personal preferences. Many readers combine multiple formats—for example, reading the PDF for detailed study and listening to the audiobook for review or reinforcement.

Benefits of Digital Copies

Digital copies of Igcse Maths Questions By Topic With Answers offer several advantages over traditional printed books, making them increasingly popular among modern readers. One of the most significant benefits is portability. Hundreds or even thousands of digital books can be stored on a single device, eliminating the need for physical storage space and making it easy to carry an entire library anywhere.

Searchable text is another major advantage. Instead

of flipping through pages, digital readers can instantly search for keywords, phrases, or topics within Igcse Maths Questions By Topic With Answers. This feature is invaluable for research, study, and professional reference, saving time and improving efficiency.

Offline access enhances flexibility. Once downloaded, digital copies of Igcse Maths Questions By Topic With Answers can be accessed without an internet connection. This is especially useful for travel, remote study, or areas with limited connectivity. Offline access ensures uninterrupted reading regardless of location.

Annotation tools add further value. Highlights, notes, and bookmarks transform digital reading into an interactive experience. These tools help readers organize information, revisit important sections, and personalize their learning process. Notes can often be exported or synced across devices, providing continuity and convenience.

Cost and sustainability advantages

Digital copies are often more affordable than printed books. Many platforms offer discounts, subscription

models, or free access to public domain works. Over time, digital reading can significantly reduce costs for students, professionals, and avid readers.

From an environmental perspective, digital books reduce paper consumption, printing, and transportation. Choosing digital versions of Igcse Maths Questions By Topic With Answers contributes to more sustainable reading habits and a smaller environmental footprint.

Accessibility and inclusivity

Digital reading platforms often include accessibility features that benefit a wide range of users.

Adjustable fonts, text-to-speech options, screen reader compatibility, and contrast settings make Igcse Maths Questions By Topic With Answers more accessible to readers with visual impairments or learning differences. These features help ensure that knowledge is available to a broader audience.

Balancing digital and traditional reading

While digital copies offer many benefits, balancing them with healthy reading habits is important. Taking regular breaks, maintaining good posture, and limiting screen exposure before bedtime help prevent

fatigue and eye strain. Some readers choose to alternate between digital and printed formats depending on the context and purpose of reading.

Building a long-term reading habit

Consistency is key to getting the most value from Igcse Maths Questions By Topic With Answers.

Setting a regular reading schedule, even for a short daily session, helps build a sustainable habit.

Tracking progress using reading apps or journals can increase motivation and provide a sense of achievement.

Final thoughts on reading Igcse Maths Questions By Topic With Answers

Reading Igcse Maths Questions By Topic With Answers digitally offers flexibility, efficiency, and powerful tools that enhance understanding and engagement. By applying effective reading strategies, choosing the right format, and taking advantage of digital features, readers can create a comfortable and productive reading experience. Whether for learning, professional growth, or personal enjoyment, digital copies of Igcse Maths Questions By Topic With Answers provide a modern and accessible way to consume structured knowledge anytime and

anywhere.