

# C3 Jun 13 Mark Scheme Mei Workbook

## c3 jun 13 mark scheme mei

If you're preparing for the Cambridge International AS & A Level Mathematics (MEI) C3 examination held in June 2013, understanding the mark scheme is essential for effective revision and accurate assessment of your solutions. The C3 module primarily focuses on advanced calculus, algebra, and functions, and the mark scheme provides comprehensive guidance on how marks are allocated for each question, highlighting key points and common pitfalls. This article offers a thorough overview of the *c3 jun 13 mark scheme mei*, breaking down the structure of the exam, the marking criteria, and strategies to maximize your score by aligning your solutions with the official marking scheme.

## Overview of the C3 June 2013 Exam

The C3 June 2013 exam covered various topics central to the MEI syllabus, including differentiation, integration, algebraic manipulation, and functions. The questions ranged from straightforward calculations to more complex problem-solving tasks, designed to test both procedural fluency and conceptual understanding.

## Key Topics Covered

- Differentiation and its applications
- Integration techniques
- Series and sequences
- Functions and their transformations
- Trigonometric functions and identities
- Coordinate geometry

Understanding the scope of these topics helps in analyzing the mark scheme, as each question's marks reflect the depth of understanding required.

## Structure of the Mark Scheme

The *c3 jun 13 mark scheme mei* is structured to guide examiners in awarding marks systematically, ensuring consistency and fairness. It provides detailed point-by-point solutions, indicates alternative methods, and specifies where marks are allocated within each question.

## General Principles

- **Method marks:** Awarded for following correct procedures, even if the final answer is incorrect, provided the working demonstrates understanding.
- **Accuracy marks:** Given for correct final answers, often contingent on correct working.
- **Methodology:** Clear, logical steps are essential; ambiguous or incomplete reasoning may result in partial or no marks.

*Note:* Marks may be awarded for intermediate steps if they are correct and relevant, reflecting partial understanding.

## Common Features of the Mark Scheme

- Explicit criteria for awarding marks for each step
- Alternative methods accepted where applicable
- Guidance on common errors and how to avoid losing marks
- Examples of correct and incorrect solutions

## Detailed Breakdown of Key Questions and Marking Points

Understanding specific questions from the June 2013 paper and their corresponding mark schemes can help students focus their revision on critical skills.

### Question 1: Differentiation of a Polynomial Function

This question typically asks for the derivative of a polynomial, such as  $f(x) = x^4 - 3x^2 + 2x$ .

#### Marking points include:

- Applying the power rule correctly to each term
- Correctly handling coefficients and exponents
- Simplifying the derivative appropriately

Sample solution:

$$f'(x) = 4x^3 - 6x + 2$$

Marks are awarded for each correct application and simplification, with partial marks for intermediate steps if errors are minor.

### Question 2: Integration of a Rational Function

For example, integrating  $\frac{1}{x^2}$ .

**Marking points include:**

- Recognizing the form and rewriting if necessary
- Applying the correct integration rule ( $\int x^{-2} dx = -x^{-1} + C$ )
- Including the constant of integration

**Question 3: Solving a Trigonometric Equation**

e.g.,  $\sin 2x = 0.5$ .

**Marking points include:**

- Using the correct inverse trigonometric functions
- Considering all solutions within the specified domain
- Expressing solutions in exact form where required

**Strategies for Using the Mark Scheme Effectively**

To maximize your marks in the C3 June 2013 exam, it's vital to understand how the mark scheme guides the marking process and how you can align your solutions accordingly.

**1. Show Your Working Clearly**

- Write each step logically and explicitly.
- Label your answers at each stage to avoid ambiguity.
- Use correct mathematical notation and terminology.

**2. Use the Correct Methods**

- Apply relevant rules precisely (power rule, chain rule, substitution, etc.).
- Recognize when alternative methods are acceptable and use them if more straightforward.

**3. Check for Accuracy and Consistency**

- Verify each step, especially when simplifying expressions or solving equations.
- Ensure your final answer matches the expected form and units where applicable.

## 4. Be Aware of Common Pitfalls

- Incorrect domain considerations in trigonometric equations.
- Sign errors during differentiation or integration.
- Omitting constants of integration where necessary.

## 5. Practice Past Papers with Mark Schemes

Simulate exam conditions by attempting questions from the June 2013 paper and then compare your solutions with the official mark scheme. This practice helps you internalize marking criteria and develop efficient solving techniques.

## Additional Resources for C3 June 2013 Preparation

To further enhance your understanding and exam readiness, consider the following:

- Review official past papers and their mark schemes from the MEI website.
- Use revision guides tailored for C3, emphasizing problem-solving strategies.
- Join study groups or seek help from teachers to clarify complex topics.
- Engage with online tutorials and forums discussing June 2013 questions and solutions.

## Conclusion

Mastering the *c3 jun 13 mark scheme mei* is instrumental in achieving high marks and gaining confidence for the examination. By understanding how marks are allocated, practicing with past papers, and following the strategies outlined above, students can improve their problem-solving skills and ensure their solutions align with the official marking criteria. Remember that clarity, accuracy, and methodical working are key to maximizing your score, and consistent practice will make these elements second nature come exam day. Good luck with your revision and your 2013 C3 exam preparation!

### c3 jun 13 mark scheme mei: A Comprehensive Review and Analysis

The *c3 jun 13 mark scheme mei* is an essential resource for students and educators preparing for the Cambridge International Examinations (CIE) Mathematics IGCSE, specifically for the June 2013 examination session. As a vital guide to understanding how examiners allocate marks, interpret student responses, and structure their marking criteria, it provides invaluable insights into achieving high scores. This article offers an in-depth review of the mark scheme, exploring its features, strengths, limitations, and practical applications to help students optimize their exam strategies.

## Understanding the Significance of the Mark Scheme

The mark scheme for C3 June 13 MEI (Mathematics Exam I) serves as the blueprint for examiners to evaluate student responses consistently and fairly. It delineates the expected solutions, key steps, and common approaches students should employ to secure marks. For students, familiarity with the mark scheme is instrumental in crafting responses that align with examiners' expectations, thereby maximizing their potential score.

Importance of the Mark Scheme:

- Guides students on what examiners look for
- Clarifies the level of detail required for each question
- Helps identify common pitfalls and misconceptions
- Serves as a model for structuring answers effectively

## Overview of the June 2013 C3 MEI Mark Scheme

The 2013 mark scheme covers a variety of topics, including algebra, geometry, trigonometry, calculus, and probability. Each question is broken down with detailed marking points, often including tiered marks for method, accuracy, and reasoning.

Key Features:

- Clear marking points for each part of a question
- Allocation of marks for correct methods, intermediate steps, and final answers
- Guidance on common alternative approaches
- Emphasis on logical reasoning and method validity

Sample Breakdown:

For example, in a question involving solving quadratic equations, the mark scheme might allocate:

- 1 mark for correct setup of the quadratic formula
- 1 mark for correct substitution
- 1 mark for correctly finding roots
- Additional marks for clear algebraic manipulation

## Analysis of the Structure and Content

## Question-Specific Marking Criteria

The mark scheme is organized question by question, often subdivided into parts (a), (b), (c), etc. Each part specifies:

- The required method or key steps
- The acceptable variations in responses
- The common errors that should not be penalized if the correct method is evident

This structure ensures consistency across examiners and fairness for students with different working styles.

## Detailed Mark Breakdown

One notable feature is the detailed point allocation, which allows students to understand how partial credit is awarded. For example, in a question on differentiation:

- Correct application of differentiation rules might earn 2 marks
- Correct substitution into a formula might earn 1 mark
- Final answer with units and proper notation might earn 1 mark

This encourages students to perform each step carefully and understand the importance of notation and units.

## Strengths of the C3 June 13 MEI Mark Scheme

- **Transparency:** The detailed marking criteria help students understand exactly what is required for each mark, aiding targeted revision.
- **Consistency:** Standardized marking helps ensure fairness across different exam sessions and examiners.
- **Guidance on Alternative Methods:** The scheme often recognizes valid alternative approaches, encouraging flexibility and deeper understanding.
- **Emphasis on Methodology:** By awarding marks for correct procedures, it promotes logical and structured problem-solving skills.

Pros:

- Facilitates effective revision by highlighting key steps
- Aids teachers in designing appropriate teaching strategies
- Supports students in practicing past papers with accurate marking expectations

Cons:

- Over-reliance on the scheme may discourage creative or unconventional solutions
- Some students may focus solely on "method chasing" rather than conceptual understanding
- The detailed breakdown can be complex for some students to interpret without guidance

## Limitations and Challenges

While the mark scheme is a highly valuable resource, it does have certain limitations:

- Potential for Over-Structuring: Students might become overly focused on matching the scheme rather than developing flexible problem-solving skills.
- Risk of Misinterpretation: Without proper guidance, students may misread the marking points or overlook alternative valid solutions.
- Limited Scope for Creativity: The emphasis on specific methods could stifle innovative approaches that are nonetheless correct.
- Dependence on Examiner Interpretation: Although standardized, some subjective judgment remains, especially in questions requiring explanations or justifications.

## Practical Applications for Students and Educators

### For Students

- Use the mark scheme to familiarize yourself with the expected solving strategies.
- Practice past papers with the scheme to identify common marking points.
- Develop a checklist based on the scheme to ensure all steps are included.
- Focus on clarity, notation, and method, not just the final answer.

### For Educators

- Incorporate the scheme into classroom assessments to clarify marking criteria.
- Use it as a teaching tool to highlight common errors and effective methods.
- Design practice questions that mirror the structure and marking points of the scheme.

- Encourage students to understand the rationale behind each marking point.

## Conclusion: Maximizing Success with the C3 June 13 MEI Mark Scheme

The c3 jun 13 mark scheme mei is an invaluable document that offers transparency, consistency, and guidance in the assessment of mathematics students. Its detailed breakdown of marks for each question allows learners to understand what examiners prioritize and helps them develop effective problem-solving strategies. While it is not a substitute for conceptual understanding or creative thinking, when used appropriately, it enhances preparation and performance. Students and educators alike should leverage this resource to foster a deeper understanding of the subject and to approach exams with confidence and clarity.

In summary, mastering the mark scheme is a crucial step toward excelling in CIE Mathematics exams. By studying the scheme thoroughly, practicing past questions, and focusing on method and accuracy, students can significantly improve their chances of achieving top marks. The June 2013 scheme exemplifies best practices in assessment criteria, serving as a model for effective exam marking and student preparation strategies.

**QuestionAnswer** What are the key topics covered in the C3 June 13 MEI mark scheme? The C3 June 13 MEI mark scheme covers topics such as calculus (including differentiation and integration), algebra, functions, and mathematical reasoning. It provides detailed marking points for each question to guide examiners. How can students effectively use the C3 June 13 MEI mark scheme to improve their exam performance? Students can review the mark scheme to understand the expected solutions and common mistakes, practice past papers using the scheme, and learn how marks are allocated to develop better exam techniques and improve accuracy. Where can I find the official C3 June 13 MEI mark scheme for revision? The official C3 June 13 MEI mark scheme is typically available on the MEI (Mathematics in Education and Industry) website or through authorized educational resources and revision platforms associated with OCR exam boards. What are some common errors highlighted in the C3 June 13 MEI mark scheme? Common errors include incorrect application of differentiation rules, sign errors in integration, misreading the question requirements, and failure to justify steps clearly, all of which are addressed in the mark scheme. How does the C3 June 13 MEI mark scheme help in understanding exam expectations? The mark scheme clarifies what examiners are looking for in each question, including expected methods and key points, helping students align their answers with examiners' expectations and achieve higher marks. Are there any tips for students when using the C3 June 13 MEI mark scheme to practice exam questions? Yes, students should practice under timed conditions, compare their solutions with the mark scheme, identify areas for improvement, and focus on understanding how marks are awarded for different methods and steps. How does the C3 June 13 MEI mark scheme differ from other exam board mark schemes? The C3 June 13 MEI mark scheme is tailored to the specific MEI specifications and style of questions, often emphasizing problem-solving and reasoning, which may

differ from other boards like Edexcel or AQA in structure and marking approach.

**Related keywords:** C3 June 13 mark scheme, C3 June 2013 solutions, C3 mathematics exam paper, MEI C3 June 13, marking guidelines, C3 June 13 answers, C3 June 2013 questions, MEI C3 June 13 solutions, C3 exam paper mark scheme, Mathematics C3 June 13, marking scheme, MEI C3 June 13 paper

## ks1 sats mark scheme 2007

### ks1 sats mark scheme 2007: A Comprehensive Guide for Educators and Parents

Understanding the **KS1 SATs mark scheme 2007** is essential for educators, parents, and students involved in the Key Stage 1 assessments. These national tests, which take place in England for children aged 6 to 7, play a significant role in providing a snapshot of a child's progress in core subjects such as English and Maths. The 2007 mark scheme offers valuable insights into how these assessments are graded, ensuring transparency and consistency in marking. This article explores the key aspects of the **KS1 SATs mark scheme 2007**, its structure, application, and importance in the educational landscape.

## Understanding the Purpose of the KS1 SATs Mark Scheme 2007

### What is the KS1 SATs?

The Key Stage 1 SATs are national assessments designed to evaluate the attainment of young learners at the end of Key Stage 1. They cover subjects like:

- English (Reading, Writing, and Spelling, Punctuation & Grammar)
- Mathematics (Number, Algebra, Shape, Space, and Measures)

The results help teachers identify areas where pupils excel or need additional support.

### Role of the Mark Scheme

The mark scheme provides detailed criteria for awarding marks for each answer, ensuring consistency across schools and marking periods. In 2007, the scheme was particularly focused on:

- Clear descriptors for partial and full answers
- Guidelines for awarding marks based on the quality of responses
- Ensuring fairness and objectivity in assessment

## Structure of the KS1 SATs Mark Scheme 2007

### English Mark Scheme (2007)

The English assessment in 2007 was divided into sections:

- Reading
- Writing
- Spelling, Punctuation & Grammar (SPaG)

Each section had specific criteria, with the mark scheme defining:

- Level descriptors
- Number of marks available for each task
- Examples of acceptable answers

### Mathematics Mark Scheme (2007)

The Maths assessment focused on key areas:

- Number and place value
- Addition, subtraction, multiplication, division
- Shape, space, and measures

The mark scheme specified:

- Answer accuracy
- Method marks for demonstrating working out
- Partial credit for partially correct answers

## Applying the KS1 SATs Mark Scheme 2007

### Marking Procedures

Teachers and markers used the scheme to:

- Read student responses carefully
- Match answers against the criteria outlined in the mark scheme
- Assign marks based on completeness and correctness

## Levels of Attainment

The 2007 scheme incorporated levels to categorize student performance:

- Level 2 (working towards the expected standard)
- Level 3 (meeting the expected standard)
- Level 4 (exceeding the standard)

These levels helped provide a clear picture of a child's progress relative to national benchmarks.

## Importance of the KS1 SATs Mark Scheme 2007

### Ensuring Fairness and Consistency

The detailed criteria minimized subjective judgment, ensuring that all students were assessed equitably regardless of the school or teacher.

### Supporting Teaching and Learning

Results from the assessments, guided by the mark scheme, helped educators identify strengths and weaknesses, informing future lesson planning.

### Preparing for Future Assessments

Understanding the mark scheme's structure and expectations enabled schools to better prepare students for subsequent stages of their education.

## Key Features of the 2007 KS1 SATs Mark Scheme

### Clarity and Specificity

The scheme provided explicit descriptions of what constitutes a correct or partially correct answer, reducing ambiguity.

## Partial Credit Allocation

In recognition of partial understanding, the scheme allowed for awarding marks for partially correct responses, encouraging pupils to attempt answers even if incomplete.

## Use of Exemplars

Sample answers were included to illustrate different levels of response quality, aiding markers in consistent grading.

## Challenges and Considerations with the 2007 Mark Scheme

### Subjectivity in Marking

Despite detailed criteria, some level of subjective judgment remained, especially in open-ended questions.

### Impact of Mark Scheme on Teaching Strategies

Teachers might tailor instruction to meet specific assessment criteria, which could influence teaching priorities.

## Evolution of Mark Schemes

Since 2007, mark schemes have undergone revisions to reflect curriculum changes and improved assessment practices, but understanding historical schemes remains valuable for context.

## Conclusion: The Significance of the KS1 SATs Mark Scheme 2007

The **KS1 SATs mark scheme 2007** played a pivotal role in shaping fair, consistent, and transparent assessment practices for young learners in England. It provided a structured framework for teachers to evaluate student responses accurately and fairly, ultimately supporting the broader goal of ensuring high-quality education. For educators and parents alike, understanding the intricacies of the 2007 mark scheme offers insights into assessment standards and the importance of clear criteria in facilitating student progress. As educational assessments continue to evolve, the principles embedded in the 2007 scheme—clarity, fairness, and consistency—remain foundational to effective evaluation practices.

### KS1 SATs Mark Scheme 2007: An In-Depth Review

The KS1 SATs Mark Scheme 2007 remains a significant reference point for educators, parents, and

assessment professionals involved in the primary education sector. Designed to provide a standardized framework for evaluating pupils' performance at the end of Key Stage 1, this mark scheme offers detailed guidance on how students' work is graded and how scores are allocated across core subjects such as English and Mathematics. Understanding the structure, application, and implications of this mark scheme is essential for ensuring fair assessment, effective teaching strategies, and meaningful feedback for pupils.

## Overview of the KS1 SATs Mark Scheme 2007

The KS1 SATs Mark Scheme 2007 was developed in alignment with the curriculum standards of the time, aiming to facilitate consistent and transparent assessment across schools. It was primarily used for the national curriculum assessments conducted in May 2007 and provided clear criteria for marking pupils' scripts, whether in reading, writing, mathematics, or science.

Key Features:

- Standardization: Ensures uniformity across different schools and examiners.
- Detailed Marking Criteria: Offers explicit guidance on how to award marks based on the quality of responses.
- Grade Boundaries: Defines thresholds for different levels, typically ranging from Level 1 to Level 3, with Level 2 representing the expected standard.
- Focus on Skills and Knowledge: Emphasizes both factual recall and understanding, as well as application and reasoning.

## Structure of the Mark Scheme

The mark scheme is divided into subject-specific sections, each tailored to the unique assessment requirements of that subject. Here's a breakdown:

### English (Reading and Writing)

- Reading: The mark scheme specifies how to allocate marks based on comprehension, inference, vocabulary, and literal understanding.
- Writing: Focuses on spelling, punctuation, grammar, sentence structure, and coherence. Markers evaluate the accuracy, clarity, and appropriateness of responses.

### Mathematics

- The scheme provides detailed criteria for marking calculations, problem-solving, reasoning, and fluency.
- Emphasizes accuracy, method application, and mathematical reasoning.

## Science (if applicable)

- Assesses understanding of scientific concepts, data handling, and experimental skills.
- Marking criteria evaluate accuracy, understanding, and application of scientific methods.

## Application of the Mark Scheme

The application process involves trained markers who assess pupils' scripts against the detailed criteria. The process emphasizes consistency and fairness, with moderation sessions to reconcile differing judgments.

Process Highlights:

- Initial assessment based on explicit criteria.
- Use of exemplar scripts to calibrate marking standards.
- Moderation meetings to ensure uniformity across markers.
- Final allocation of levels and sub-levels based on cumulative scores.

## Pros and Cons of the KS1 SATs Mark Scheme 2007

Pros:

- **Clarity and Transparency:** The detailed criteria provide clear guidance on how marks are awarded, reducing ambiguity.
- **Fairness:** Standardization helps ensure that all pupils are assessed equitably across different schools.
- **Diagnostic Value:** The breakdown of skills and knowledge allows teachers to identify specific areas for development.
- **Benchmarking:** Provides consistent benchmarks for expected performance at Key Stage 1.

Cons:

- **Rigidity:** The detailed criteria may sometimes limit teachers' flexibility to consider creative or

non-standard responses.

- **Narrow Focus:** Emphasis on specific skills might overlook broader abilities like critical thinking or creativity.
- **Stress and Pressure:** The high-stakes nature of SATs, coupled with strict marking schemes, can induce anxiety among pupils and teachers.
- **Limited Adaptability:** The 2007 scheme reflects the curriculum standards of that period, which have since evolved, making it less adaptable to modern educational practices.

## Features of the Mark Scheme

- **Explicit Marking Guidelines:** Clear instructions on how to allocate marks for each question.
- **Sample Marking Grids:** Examples illustrating how responses should be scored.
- **Level Descriptors:** Descriptive criteria for each level of attainment, detailing what constitutes a Level 1, Level 2, or Level 3 response.
- **Error Identification:** Guidelines for recognizing common misconceptions or mistakes and how they impact scoring.

## Impact on Teaching and Learning

The KS1 SATs Mark Scheme 2007 influences teaching strategies significantly. Teachers often tailor their instruction to meet the criteria outlined in the scheme, focusing on developing skills that are explicitly tested.

Positive Impact:

- Encourages targeted skill development.
- Facilitates formative assessment and tracking of pupil progress.
- Helps in identifying pupils who need additional support.

Challenges:

- May lead to teaching to the test, narrowing the curriculum.
- Can cause a focus on measurable skills at the expense of broader educational experiences.
- Risk of undermining intrinsic motivation if pupils perceive assessments as purely punitive.

## Evolution and Legacy

Since 2007, the KS1 SATs mark schemes have undergone several modifications to align with

curriculum reforms, changes in assessment philosophy, and feedback from educators. However, the 2007 scheme remains a benchmark for understanding the foundational principles of assessment at Key Stage 1.

Legacy Aspects:

- Emphasis on clarity and fairness.
- Foundation for subsequent assessment frameworks.
- A reference point for comparing past and current assessment practices.

## Conclusion

The KS1 SATs Mark Scheme 2007 played a pivotal role in shaping primary assessment during its time, offering a structured, transparent, and standardized approach to evaluating young learners' skills. While it has its limitations?such as potential rigidity and the risk of overemphasizing testable skills?it provided valuable insights into pupils' attainment levels and informed teaching practices. For educators, understanding the intricacies of the 2007 mark scheme allows for better preparation, fairer assessment, and more targeted support for pupils. As assessment practices continue to evolve, the principles embedded within the 2007 scheme?clarity, fairness, and focus on skills?remain relevant and serve as a foundation for ongoing improvements in educational evaluation.

**QuestionAnswer** What is the KS1 SATs Mark Scheme for 2007 used for? The KS1 SATs Mark Scheme for 2007 is used to assess and score students' performances in Key Stage 1 national assessments, providing standardized criteria for marking pupils' work in subjects like reading, writing, and mathematics. Where can I find the official KS1 SATs Mark Scheme 2007? The official KS1 SATs Mark Scheme 2007 can typically be found on the Department for Education's website or through school assessment resources and archives that provide past exam materials. How does the 2007 KS1 SATs Mark Scheme differ from later versions? The 2007 KS1 SATs Mark Scheme may differ in scoring criteria, levels of achievement, and assessment standards compared to later versions, reflecting the curriculum and assessment frameworks in place at that time. What subjects are covered in the 2007 KS1 SATs Mark Scheme? The 2007 KS1 SATs Mark Scheme covers key subjects including Reading, Writing, and Mathematics, providing specific guidelines for marking student responses in each subject. How are pupils graded using the 2007 KS1 SATs Mark Scheme? Pupils are graded based on their performance against defined levels and criteria outlined in the mark scheme, which helps determine their achievement level and readiness for the next stage of education. Can teachers access sample answers or exemplars for the 2007 KS1 SATs Mark Scheme? Yes, teachers can access sample answers and exemplars that illustrate how to apply the mark scheme effectively, often provided in official assessment materials or teacher guidance documents. Is the 2007 KS1 SATs Mark Scheme still applicable for current assessments? No, the

2007 KS1 SATs Mark Scheme is outdated, as assessment standards and curriculum requirements have evolved; current mark schemes are more relevant for today's assessments. How did the 2007 KS1 SATs Mark Scheme influence student assessment at the time? The 2007 mark scheme provided a standardized way to fairly and consistently assess student performance, helping schools track progress and identify areas needing improvement during that period. Are there any online resources to help interpret the 2007 KS1 SATs Mark Scheme? Yes, educational websites, teacher forums, and archives often provide guides and explanations to help interpret the 2007 KS1 SATs Mark Scheme, although access to official documents is recommended for accuracy. What should I consider when using the 2007 KS1 SATs Mark Scheme for historical assessment review? When using the 2007 mark scheme for historical review, consider changes in curriculum standards, assessment criteria, and the context of the time to ensure accurate interpretation and comparison.

**Related keywords:** KS1 SATs mark scheme 2007, KS1 assessment criteria 2007, KS1 SATs grading 2007, KS1 level descriptors 2007, KS1 test marking scheme 2007, primary school SATs 2007, KS1 assessment guidelines 2007, Key Stage 1 marking criteria 2007, KS1 test score interpretation 2007, KS1 examination standards 2007

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