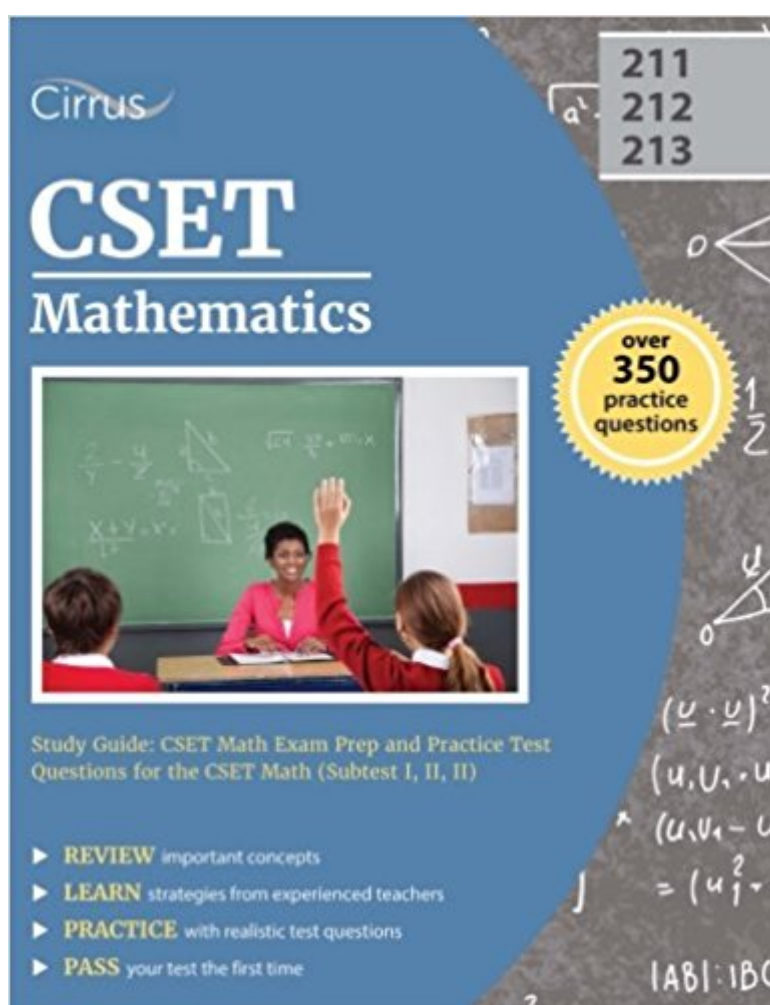


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# CSET Mathematics Study Guide: CSET Math Exam Prep And Practice Test Questions For The CSET Math (Subtest I, II, II)



## Synopsis

CSET Mathematics Study Guide: A CSET Math Exam Prep and Practice Test Questions for the CSET Math (Subtest I, II, III) will provide you with a detailed overview of the CSET Mathematics exam, so you know exactly what to expect on test day. We'll take you through all the concepts covered on the test and give you the opportunity to test your knowledge with practice questions. Even if it's been a while since you last took a major test, don't worry; we'll make sure you're more than ready! A Cirrus Test Prep CSET Mathematics Study Guide: A CSET Math Exam Prep and Practice Test Questions for the CSET Math (Subtest I, II, III) includes: A comprehensive REVIEW of: Numbers and Operations Types of Numbers Scientific Notation Positive and Negative Numbers Order of Operations Units of Measurement Decimals and Fractions Rounding and Estimation Factorials Ratios Percentages Comparison of Rational Numbers Exponents and Radicals Matrices Sequences and Series A Algebra Algebraic Expressions Operations with Expressions Linear Equations Quadratic Equations and Inequalities Absolute Value Equations and Inequalities Functions Exponential and Logarithmic Functions Polynomial Functions Rational Functions Radical Functions Modeling Relationships Trigonometry Conic Sections Other Coordinate Systems A Geometry Equality, Congruence, and Similarity Properties of Shapes Three-Dimensional Solids Transformations of Geometric Figures Triangle Congruence and Similarity Coordinate Geometry Geometric Proofs Constructions of Geometric Figures A Statistics Describing Sets of Data Graphs, Charts, and Tables A Logic and Probability Logic and Set Theory Probability Probability Distributions and Expected Value A Calculus Limits Derivatives Applications of Derivative Integrals Applications of Integrals A as well as TWO FULL Praxis II Math Content Knowledge practice tests. A About Cirrus Test Prep Developed by experienced current and former educators, Cirrus Test Prep's study materials help future educators gain the skills and knowledge needed to successfully pass their state-level teacher certification exams and enter the classroom. Each Cirrus Test Prep study guide includes: a detailed summary of the test's format, content, and scoring; an overview of the content knowledge required to pass the exam; worked-through sample questions with answers and explanations; full-length practice tests including answer explanations; and unique test-taking strategies with highlighted key concepts. Cirrus Test Prep's study materials ensure that new educators feel prepared on test day and beyond.

## Book Information

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## Customer Reviews

If you're thinking about becoming a mathematics teacher in California, undoubtedly you already know what the CSET is. The California Subjects Examinations for Teachers (CSET) in mathematics "must be taken" in addition to the assessments in reading, writing, mathematics, and professional knowledge required in California. It's a tall order if you want to teach and you'll find out if you have that "college-level content knowledge" needed in your career choice. No one says you have to stick with one test prep or study guide and in fact, I'd recommend trying out several. In the front matter, the introductory material is where I found out all the good to know information about the CSET. One very critical bit of information is the fact that there are three subtests and it's necessary to "pass all three subtests to be certified to teach mathematics in California. You'll find out what the CSET is, what's on the test, the domains, how they're scored, administered, and other interesting little facts. Usually no electronic devices, among other items, are allowed in the testing site, however with the CSET, there's an exception. The "use of a graphing calculator is allowed ONLY for Subtest II. Obviously we all want to pass any exam the first time, but no prep or study materials can take the place of prior classroom work. This guide will help you prep and refresh your

memory as you work on those skills. Everyone wants to know the percentages and what is needed to pass those subtests. The multiple-choice section constitutes 70 percent of your score, and the constructed responses, 30 percent. You will need to pass with a minimum score of 220. What's covered in this book? Well, I will replicate the basics of what you will be studying below.

WHAT'S ON THE CSET MATHEMATICS TEST: Note: The domain in each subtest is listed first, followed by the objectives and then the number of multiple-choice and constructed-response questions.

SUBTEST I (221)

Domain 1. Number and Quantity

Objectives

1. Real and complex number systems
2. Number theory

Number of Multiple-Choice and Constructed-Response Questions

multiple-choice	1	constructed-response	2
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Domain 2. Algebra

Objectives

3. Algebraic structures
4. Polynomial equations and inequalities
5. Functions
6. Linear algebra

Number of Multiple-Choice and Constructed-Response Questions

multiple-choice	25	constructed-response	2
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SUBTEST II (222)

Domain 3. Geometry

Objectives

1. Plane Euclidean geometry
2. Coordinate geometry
3. Three-dimensional geometry
4. Transformational geometry

Number of Multiple-Choice and Constructed-Response Questions

multiple-choice	25	constructed-response	2
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Domain 4. Probability and Statistics

Objectives

5. Probability
6. Statistics

Number of Multiple-Choice and Constructed-Response Questions

multiple-choice	10	constructed response	1
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SUBTEST III (223)

Domain 5. Calculus

Objectives

1. Trigonometry
2. Limits and continuity
3. Derivatives and applications
4. Integrals and applications
5. Sequences and series

Number of Multiple-Choice and Constructed-Response Questions

multiple-choice	30	constructed-response	2
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As I mentioned before, I wouldn't just stick with this one book, but would purchase as many as the budget will allow. If you know you're heading off to college and know you want to be an mathematics educator, nothing says you can't prep for the exam and take practice tests early. In the back of the book you will find a full practice test followed by an answer key. There is no DVD included in this book, but is available by request after posting a review. This book courtesy of the publisher.

Seems to miss a lot of areas (fields/rings, Rational Root Theorem, Principle of Mathematical Induction so far) that show up in sample CSET exams. Still, format is very clean and is a good place to start.

This book is a very nice guide book if you are trying to study for the mathematics portion of the CSET. In point of fact, this guide book is a great study guide for several different types of math exams - not just the CSET. It is a great math study guide, PERIOD. The guide begins with an introduction to the CSET. What it is. How the subtests work. How the exam is scored. Etc. Etc. Etc. It is just a basic overview of the exam, but it is a nice little fact sheet for those who need to take the exam but do not know a lot about what it is or how it is administered, etc. Then it jumps right into the meat of the book... the guide itself. It is broken into several very useful sections, including but not limited to, the following: Numbers and operations (including order of operations, negative and positive numbers and the rules for them, decimals and fractions, ratios and percentages, etc.) I, personally, found this section to be very helpful. Many students that I work with have real trouble with the basics of mathematics. They need to go back to the very beginning of what makes math, math. This section is perfect for that, and my students use it very regularly. Algebra (including algebraic expressions, absolute value functions, linear equations, polynomial functions, etc.). This section was also very informative and very comprehensive. It had everything I learned in my algebra classes AND MORE. I had no qualms with either of the first two sections. Geometry (including equality, congruence, and similarity, shapes and their properties, geometric proofs [the worst thing that ever happened to math students everywhere], etc. etc.). This section seemed to be a little less comprehensive than the first two, but it still had a lot of great information, and I, myself, was able to refresh myself on some things that I had forgotten from college. Statistics (including describing sets of data and graphs, charts, and tables). This section was definitely the weakest of all of the other sections, but it was good, and the information it DOES contain is very useful. I only wish there had been more of it. Logic and probability (including logic and set theory, probability, etc.) Another good section full of great info. Calculus. I was quite pleased with this section. Most guide books that have "calculus" help in it usually fall short and fail to teach anything useful. They either do not have the right information or the information that they do have is too complicated to understand and helps no one. I, personally, love calculus, so I really took a fine-tooth comb through this section to make sure that it was a good section. It was. It contains limits, derivatives, applications of derivatives, integrals, and applications of integrals. It was very good. The calculus section moves right into the practice test, which is great and incredibly comprehensive. Overall, the guide was great, and I am incredibly pleased with it.

This is a fantastic guide for the CSET. The guide's chapters are straightforward and get right to the heart of the information. Everything is very well explained, with lots of illustrations to further the

concepts. There are a ton of practice test questions included and I loved that the answer key explained why each answer was correct, rather than just showing the related letter choice. The practice questions really gave me a great idea of what I could expect to see on the exam, so I feel more comfortable about the information. I'd definitely recommend this study guide to others.

It's a great study guide, however there are some errors in the wording and algebra. But overall it's a great book, and I recommend it.

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