



# PRAXIS II Mathematics Content Knowledge (0061) w/CD-ROM (PRAXIS Teacher Certification Test Prep)

By Mel Friedman, Editors of REA, PRAXIS

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**PRAXIS II Mathematics Content Knowledge (0061) with Practice Tests on CD**

**TestWare CD includes timed practice tests, instant scoring, and more.**

Are you prepared to excel on the PRAXIS II?

- \* Get to know the test, how it is scored, and much more.
- \* Set up a study schedule by following our flexible, results-driven timeline
- \* Take the Pretest to discover what you know and what you should know
- \* Use REA's advice to ready yourself for proper study and success

**Sharpen your knowledge and skills**

- \* The comprehensive review guides candidates through all the content and process categories on the official test, which is required in most states for certification. Content categories include: Algebra and Number Theory, Measurement, Geometry; Trigonometry, Functions, Calculus, Data Analysis and Statistics, Probability, Matrix Algebra, and Discrete Mathematics.
- \* Lessons reinforce necessary skills
- \* Key tutorials enhance specific abilities needed on the test
- \* Targeted drills increase comprehension and help organize study

Take Practice Tests

- \* Create the closest experience to test-day conditions with 2 of the book's 3 full-

length practice tests on REA's TestWare CD, featuring test-taking against the clock, instant scoring by topic, handy mark-and-return function, pause function, and more

- \* Or, choose paper-and-pencil testing at your own pace
- \* Chart your progress with full and detailed explanations of all answers
- \* Boost confidence with test-taking strategies and experienced advice

**This test prep is a must-have for teacher certification candidates across the country!**

*REA books and software have proven to be the extra support teacher candidates need to pass their challenging tests for licensure. Our comprehensive test preps are teacher-recommended and written by experts in the field.*



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## **Editorial Review**

From the Back Cover

### **ARE YOU READY TO PASS THE PRAXIS?**

**THEN USE THE MOST COMPREHENSIVE GUIDE ON THE MARKET TODAY.**

PRAXIS II Mathematics Content Knowledge (0061)

#### **The Most Complete Subject Review:**

Everything you need to know for the PRAXIS II Mathematics Content Knowledge (0061) exam, prepared by leading teacher education specialists. Comprehensive review chapters cover all the subjects and skills tested on the exam.

#### **The Best Practice Exams Available:**

3 full-length practice exams based on the official PRAXIS test – balanced to include every topic and type of question you can expect on the actual PRAXIS II Mathematics Content Knowledge exam.

#### **Total Explanations of Questions & Answers:**

Each PRAXIS II Mathematics practice test comes with detailed feedback on every question. We don't just say which answers are right – but explain why the others are wrong, so you'll be prepared on test day!

Proven Test Prep Methods:

REA's focused PRAXIS II Mathematics content and practical advice has helped millions succeed on their exams. With our step-by-step study plan, you can score high on the PRAXIS and get certified to teach!

#### **Federal Guidelines for NCLB Compliance:**

You can expect that candidates with NCLB-compliant credentials will enjoy preferential status in hiring. This means you need to pass the PRAXIS Assessments. Maximize your exam performance and master the PRAXIS Assessments with the unrivaled certification expertise that only REA can offer.

#### **Get the World's Most Advanced PRAXIS Software:**

REA's PRAXIS II Mathematics Content Knowledge TestWare combines a realistic test environment with the most powerful scoring analysis and diagnostic tools available. With every practice test you take, you'll gain knowledge and confidence for the real exam. Automatic scoring and instant reports help you zero in on the topics and types of questions that give you trouble now, so you'll succeed on the exam!

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#### **Introduction: Passing the Test**

#### **About This Book and TESTware**

REA's The Best Teachers' Preparation for the PRAXIS II Mathematics Content Knowledge Test (0061) is a comprehensive guide designed to assist you in preparing for this required test for teachers of secondary school mathematics. To enhance your chances of success in this important step toward your career as a mathematics teacher, this test guide:

- Presents an accurate and complete overview of the PRAXIS II Mathematics Content Knowledge Test
- Identifies all of the important information and its representation on the test

- Provides a comprehensive review of every content category on the test
- Provides three full-length practice tests
- Suggests tips and strategies for successfully completing standardized tests
- Replicates the format of the official test, including levels of difficulty
- Supplies the correct answer and detailed explanations for each question on the diagnostic and practice tests, which enable you to identify correct answers and understand why they are correct and, just as important, why the other answers are incorrect.

This guide is the of a review of the best resources available. REA editors considered the most recent test administrations and professional standards. We also researched information from Educational Testing Service, professional journals, textbooks, and educators. The result? The best test preparation materials based on the latest information available.

Practice Tests 1 and 2 are included in two formats: in printed form in this book and in TESTware format on the enclosed CD. We recommend that you begin your preparation by first taking the computerized version of your test. The software provides the added benefits of enforced timed conditions and instantaneous, accurate scoring, making it easier to pinpoint your strengths and weaknesses.

## **About the Test**

The PRAXIS II Mathematics Test is designed to assess the mathematical knowledge and competencies for a beginning secondary school teacher. Below are the content and process categories used as the basis for the PRAXIS II Mathematics Test, as well as the approximate percentage of the total test that each category occupies. These categories represent the knowledge that teams of teachers, subject area specialists, and district-level educators have determined to be important for beginning teachers. This book contains a thorough review of all these categories, as well as the specific skills that demonstrate each area.

## **Who Administers the Test?**

All the PRAXIS II tests are administered by the Educational Testing Service ([www.ets.org/praxis](http://www.ets.org/praxis)).

| <b>Content Categories</b>   | <b>Approx # questions</b> | <b>Percentage</b> |
|-----------------------------|---------------------------|-------------------|
| I Algebra and Number Theory | 8                         | 16%               |

|                                  |     |        |
|----------------------------------|-----|--------|
| II Measurement                   | 3   | 6%     |
| Geometry                         | 5   | 10%    |
| Trigonometry                     | 4   | 8%     |
| III. Functions                   | 8   | 16%    |
| Calculus                         | 6   | 12%    |
| IV. Data Analysis and Statistics | 5–6 | 10–12% |
| Probability                      | 2–3 | 4–6%   |
| V. Matrix Algebra                | 4–5 | 8–10%  |
| Discrete Mathematics             | 3–4 | 6–8%   |

#### **Process Categories -- Distributed Across Content Categories:**

Mathematical Problem Solving

Mathematical Reasoning and Proof

Mathematical Connections

Mathematical Representation

Use of Technology

#### **Can I Retake the Test?**

Most states and institutions allow candidates who do not pass the PRAXIS II Mathematics Test to retake it as often as necessary until a passing score is achieved. In these cases, candidates must reregister each time they retake a test. However, please check with your state or testing institution for their specific requirements. Candidates who have passed a PRAXIS II Mathematics Test have met that part of the testing requirement for certification and, therefore, are not eligible to retake the test again.

## **When Should the Test Be Taken?**

Individual states, institutions, and associations set their own requirements and passing scores for the PRAXIS. Some states specify the passing of additional or different tests. Check with your state agency for details.

ETS offers the PRAXIS II Mathematics Test seven times a year at a number of locations across the nation. The usual testing day is Saturday, but examinees may request an administration on an alternate day if there is a conflict, such as a religious obligation.

To receive information on upcoming administrations of the PRAXIS II Mathematics Test, consult the PRAXIS II Information Bulletin (available for download on the ETS website), or contact the ETS at:

Educational Testing Service  
Teaching and Learning Division  
P.O. Box 6051  
Princeton, NJ 08541-6051  
Phone: (609) 771-7395; (800) 772-9476  
Website: [www.ets.org/PRAXIS II](http://www.ets.org/PRAXIS II)  
E-mail form available on website

Special accommodations are available for candidates who are visually impaired, hearing impaired, physically disabled, or specific learning disabled. For questions concerning disability services, contact the Office of Disability Services at:

Phone: (609) 771-7780; (866) 387-8602  
TTY only: (609) 771-7714  
E-mail: [stassd@ets.org](mailto:stassd@ets.org)  
Website: [www.ets.org/praxis/prxdsabl.html](http://www.ets.org/praxis/prxdsabl.html)

## **Is There a Registration Fee?**

There is a fee to take the PRAXIS II Mathematics Test. A complete summary of the registration fees can be found at the website above, or by calling the number above.

## **Graphing Calculators**

Graphing calculators are required for the PRAXIS II Mathematics Test, so one should be used during your practice tests in this book and on the CD-ROM. On test day, bring your graphing calculator to the testing site as one will not be provided. The ETS states that the calculator should be able to:

1. produce a graph of a function within an arbitrary viewing window

2. find the zeros of a function
3. compute the derivative of a function numerically
4. compute definite integrals numerically

Calculator memories need not be cleared. No calculators with typewriter-type QWERTY keyboards and electronic writing pads are allowed. Please see the ETS website for further details on the types of calculating devices that are prohibited.

### **How to Use This Book and TESTware**

#### **How Do I Begin Studying?**

Review the organization of this test preparation guide.

1. To best utilize your study time, follow our PRAXIS II Independent Study Schedule. The schedule is based on a eight-week program, but can be condensed to four weeks if necessary.
2. Take the first practice test on CD-ROM, score it according to directions, then review the explanations to your answers carefully, studying the areas that your scores indicate need further review.
3. Review the format of the PRAXIS II.
4. Review the test-taking advice and suggestions presented later in this section
5. Pay attention to the information about content and the objectives of the test.
6. Spend time reviewing topics that stand out as needing more study.
7. Take the second practice test on CD-ROM and follow the same procedure as #2 above.
8. Take the third practice test printed in this book and follow the same procedure as #2 above.
9. Follow the suggestions at the end of this section for the day before and the day of the test.

#### **When Should I Start Studying?**

It is never too early to start studying for the PRAXIS II Mathematics Test. The earlier you begin, the more time you will have to sharpen your skills. Do not procrastinate!

An eight-week study schedule is provided at the end of this section to assist you in preparing for the test. This schedule can be adjusted to meet your unique needs. If your test date is only four weeks away, you can halve the time allotted to each section, but keep in mind that this is not the most effective way to study. If you have several months before your test date, you may wish to extend the time allotted to each section. Remember, the more time you spend studying, the better your chances of achieving your aim—a passing score on the PRAXIS II Mathematics Test.

### **Studying for the PRAXIS II Mathematics Test**

It is very important for you to choose the time and place for studying that works best for you. Some students set aside a certain number of hours every morning to study, while some study at night before going to sleep, and others study during the day, while waiting in line, or even while eating lunch. Choose a time when you can concentrate and your study will be most effective. Be consistent and use your time wisely. Work out a study routine and stick to it.

When you take the practice tests, simulate the conditions of the actual test as closely as possible. Turn off your television and radio, and sit down at a quiet table with your graphing calculator. As you complete each practice test, score it and thoroughly review the explanations to the questions you answered incorrectly. Do not, however, review too much at any one time. Concentrate on one problem area at a time by examining the question and explanation, and by studying our review until you are confident that you have mastered the material. Keep track of your scores to discover general weaknesses in particular sections and to gauge your progress. Give extra attention to the review sections that cover your areas of difficulty, as this will build your skills in those areas.

### **Format of the PRAXIS II Mathematics Test**

The PRAXIS II Mathematics Test addresses 5 main content categories and 5 process categories.

The content categories were designed to measure the ability to integrate knowledge of mathematics and may involve more than one competency, as well as competencies from more than one content area.

In addition to content categories, the test contains process categories. Entry-level mathematics teachers must demonstrate that they have an understanding of the various ways in which math content knowledge is acquired and used. The process categories (as listed above) test and assess this ability and one or more may be applied to any of the content topics in the test.

There are 50 multiple-choice questions on the PRAXIS II Mathematics Test, and each contains four response options, A through D. You are given two hours to complete the test, so be aware of the amount of time you are spending on each question. Using the practice tests will help you prepare to pace your time evenly, efficiently, and productively.

## About the Review Sections

The reviews in this book are designed to help you sharpen the basic skills needed to approach the PRAXIS II Mathematics Test, as well as provide strategies for attacking the questions.

Each teaching category is examined in a separate chapter. The skills required for all categories are extensively discussed to optimize your understanding of what this PRAXIS II test covers.

Your schooling has taught you most of what you need to succeed on the test. Our review is designed to help you fit the information you have acquired into specific content and process categories. Reviewing your class notes and textbooks together with our reviews will give you an excellent springboard for passing the PRAXIS II Mathematics Test.

## Scoring the PRAXIS II Mathematics Test

Examinees are not penalized for wrong answers. A question answered correctly is worth one raw point, and your total raw score is the number of questions answered correctly on the full test. Passing scores vary from state to state, and test-takers should check with their state board of education for their state's requirements.

How many correctly answered questions equal a passing grade? According to the ETS, there is no way to predict this. There are several editions of each PRAXIS test, and each edition contains different questions. The questions on one edition may be slightly more difficult (or easier) than those on another edition. To make all editions of a test comparable, the conversion tables adjust for difficulty among editions. There is no way to predict which edition of the test you will take next.

## Score Results

Your test scores will be sent approximately four weeks after test day to you and to your designated score recipients. There is a fee for each additional score report requested.

## Test-Taking Tips

If you are not familiar with tests like the PRAXIS II Mathematics Test, this book will help acquaint you with these types of tests and help alleviate your test-taking anxieties. Listed below are ways to help you become accustomed to the PRAXIS II Mathematics Test, some of which may be applied to other tests as well.

Tip 1. Become comfortable with the format of the test. When you are practicing, stay calm and pace yourself. After simulating the test only once, you will boost your chances of doing well, and you will be able to sit down for the actual test with much more confidence.

Tip 2. Read all of the possible answers. Even if you think you have found the correct response, do not

automatically assume that it is the best answer. Read through each choice to be sure that you are not making a mistake by jumping to conclusions.

Tip 3. Use the process of elimination. Go through each answer to a question and eliminate as many of the answer choices as possible. By eliminating two answer choices, you have given yourself a better chance of getting the item correct since there will be only two choices left from which to make your guess. Answer all questions you can; you are not penalized for wrong answers, but you are rewarded for correct ones.

Tip 4. Place a question mark in your answer booklet next to answers you guessed, then recheck them later if you have time.

Tip 5. You will have two hours to complete the test, so work quickly and steadily to avoid focusing on any one problem too long. Taking the practice tests in this book will help you learn to budget your precious time.

Tip 6. Learn the directions and format of the test. This will not only save time, but also help you avoid anxiety (and the mistakes caused by getting anxious).

Tip 7. Be sure that the answer circle you are marking corresponds to the number of the question in the test booklet. Since the test is multiple choice, it is graded by machine, and marking one answer in the wrong circle can throw off your answer key and your score. Be extremely careful.

## **The Day of the Test**

### **Before the Test**

On the day of the test, make sure to dress comfortably so that you are not distracted by being too hot or too cold while taking the test. Plan to arrive at the test center early. This will allow you to collect your thoughts and relax before the test, and spare you the anguish that comes with being late.

You should check your PRAXIS II Mathematics Content Knowledge Test information bulletin or registration information to find out what time to arrive at the testing center.

Before you leave for the test center, make sure you have your admission ticket and two forms of identification, one of which must contain a recent photograph, your name, and signature (e.g., driver's license). You will not be admitted to the test center if you do not have proper identification.

You must bring several sharpened No. 2 pencils with erasers and an approved graphic calculator (see above) as none will be provided at the test center.

If you would like, you may wear a watch to the test center. However, you may not wear one that makes noise, because it may disturb the other test-takers. Cell phones, electronic/photographic equipment,

handbags, study materials, or paper of any kind will not be permitted. Drinking, smoking, and eating are prohibited.

### **During the Test**

The PRAXIS II Mathematics Test is given in one sitting with no breaks. Procedures will be followed to maintain test security. Once you enter the test center, follow all of the rules and instructions given by the test supervisor. If you do not, you risk being dismissed from the test and having your scores canceled.

When all of the materials have been distributed, the test instructor will give you directions for filling out your answer sheet. Fill out this sheet carefully since this information will be printed on your score report.

Once the test begins, mark only one answer per question, completely erase unwanted answers and marks, and fill in answers darkly and neatly.

### **After the Test**

When you finish your test, hand in your materials and you will be dismissed. Then, go home and relax—you deserve it!

## **Users Review**

### **From reader reviews:**

#### **Samuel Salamanca:**

Reading a guide tends to be new life style in this particular era globalization. With reading you can get a lot of information that could give you benefit in your life. Using book everyone in this world could share their idea. Publications can also inspire a lot of people. A lot of author can inspire all their reader with their story or perhaps their experience. Not only the storyplot that share in the guides. But also they write about the knowledge about something that you need case in point. How to get the good score toefl, or how to teach your sons or daughters, there are many kinds of book that exist now. The authors on this planet always try to improve their talent in writing, they also doing some exploration before they write with their book. One of them is this PRAXIS II Mathematics Content Knowledge (0061) w/CD-ROM (PRAXIS Teacher Certification Test Prep).

#### **Charles Whittaker:**

Your reading sixth sense will not betray you, why because this PRAXIS II Mathematics Content Knowledge (0061) w/CD-ROM (PRAXIS Teacher Certification Test Prep) e-book written by well-known writer who knows well how to make book that could be understand by anyone who else read the book. Written with

good manner for you, leaking every ideas and publishing skill only for eliminate your current hunger then you still doubt PRAXIS II Mathematics Content Knowledge (0061) w/CD-ROM (PRAXIS Teacher Certification Test Prep) as good book not just by the cover but also by the content. This is one book that can break don't evaluate book by its include, so do you still needing yet another sixth sense to pick this particular!? Oh come on your looking at sixth sense already alerted you so why you have to listening to yet another sixth sense.

**Timothy Pace:**

You could spend your free time you just read this book this guide. This PRAXIS II Mathematics Content Knowledge (0061) w/CD-ROM (PRAXIS Teacher Certification Test Prep) is simple to deliver you can read it in the area, in the beach, train in addition to soon. If you did not have got much space to bring the printed book, you can buy the actual e-book. It is make you simpler to read it. You can save typically the book in your smart phone. Consequently there are a lot of benefits that you will get when one buys this book.

**Lorene Williamson:**

Beside this specific PRAXIS II Mathematics Content Knowledge (0061) w/CD-ROM (PRAXIS Teacher Certification Test Prep) in your phone, it could give you a way to get nearer to the new knowledge or facts. The information and the knowledge you can got here is fresh in the oven so don't always be worry if you feel like an aged people live in narrow town. It is good thing to have PRAXIS II Mathematics Content Knowledge (0061) w/CD-ROM (PRAXIS Teacher Certification Test Prep) because this book offers to you personally readable information. Do you often have book but you rarely get what it's interesting features of. Oh come on, that will not happen if you have this in the hand. The Enjoyable blend here cannot be questionable, such as treasuring beautiful island. So do you still want to miss the idea? Find this book along with read it from now!

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