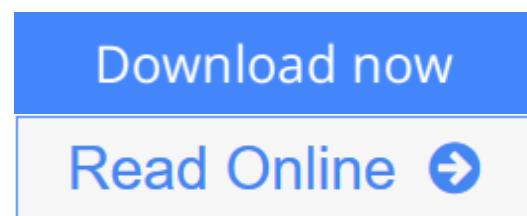


TExES 115 Mathematics 4-8 w/CD-ROM (TExES Teacher Certification Test Prep)

By Dr. Trena Wilkerson Ph.D.



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REA's *TExES Mathematics (115) Grades 4-8* Test Prep with Practice Tests on TestWare CD Gets Texas Teacher Candidates Certified and in the Classroom!

Nationwide, more than 5 million teachers will be needed over the next decade, and all must take appropriate tests to be licensed. REA gets you ready for your teaching career with our outstanding library of Teacher Certification test preps.

REA's Texas TExES (Texas Examination of Educator Standards) Mathematics (115) test prep with TestWare CD was designed to help teacher candidates in Texas pass their exam and start teaching!

Written by a Texas education expert, our test prep is perfect for students, out-of-state teachers, and career-changing professionals who are looking to become Texas Middle School (Grades 4-8) Mathematics teachers.

The book is completely aligned with the most recent TExES 115 Mathematics exam and targets exactly what you need to know to excel on the test. A comprehensive review guides you through all the content topics tested on the TExES, including:

- Number Concepts, Patterns & Algebra
- Geometry & Measurement
- Probability & Statistics
- Mathematical Processes & Perspectives
- Mathematical Learning, Instruction, and Assessment

Two full-length, multiple-choice practice tests in the book help you test your knowledge and focus on areas in need of improvement. Each practice test is balanced to include every type of question, subject area, and skill tested on the actual exam. Our practice tests replicate the TExES question format, allowing you to assess your knowledge and gauge your test-readiness. **Both of the book's practice exams are featured on our TestWare® CD** with the most powerful scoring

and diagnostic tools available today. 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 when it counts! Every practice exam comes with detailed feedback on every question. We don't just say which answers are right—we explain why the other answer choices are wrong—so you'll be prepared on test day. **Our detailed explanations of answers let you identify strengths and weaknesses while building your skills.** This complete test prep package comes with a customized study schedule and REA's test-taking strategies and tips. *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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This complete test prep package comes with a customized study schedule and REA's test-taking strategies and tips. *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 TEACH IN TEXAS?

THEN USE THE MOST COMPREHENSIVE GUIDE ON THE MARKET TODAY.

TExES Mathematics Grades 4-8 (115)

The Most Complete Subject Review

Everything you need to know for the TExES Mathematics Grades 4-8 (115) exam, prepared by leading specialists in teacher education. Comprehensive review chapters cover all the subjects and skills tested on the exam. Examples in each chapter reinforce knowledge as you study.

The Best Practice Exams Available

2 practice exams based on the official TExES 115 Mathematics Grades 4-8 test – balanced to include every topic and type of question you can expect on the actual TExES Mathematics exam.

Total Explanations of Questions & Answers

Each practice exam 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 TExES Mathematics content and practical advice have helped millions succeed on their exams. With our step-by-step study plan, you can score high on the TExES and get certified to teach in Texas!

Federal Guidelines for NCLB Compliance

You can expect that candidates with NCLB-compliant credentials will enjoy preferential status in hiring. In Texas, this means you need to pass the TExES assessments. Maximize your exam performance and master the TExES with the unrivaled certification expertise that only REA can offer.

Get the World's Most Advanced TExES Software

REA's TExES Mathematics Grades 4-8 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 TExES!

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About the Author

Trena L. Wilkerson, Ph.D. is an Associate Professor with a focus in mathematics education in the Department of Curriculum and Instruction at Baylor University in Waco, Texas. She currently works with both preservice and inservice mathematics teachers across grades PK-12. She was a secondary school mathematics teacher for 18 years and has worked in higher education for the past 17 years.

She received her undergraduate degree from Mississippi College in 1976 with a major in mathematics. Masters work was completed in 1980 at Southeastern Louisiana University in Hammond, Louisiana with an emphasis in mathematics education. In 1992 she received her Ph.D. from the University of Southern Mississippi in Hattiesburg, Mississippi in Curriculum & Instruction with a focus in mathematics.

Her professional interests include mathematics education, teacher education, teacher efficacy, teaching and learning of mathematics, professional development, and assessment. She is interested in effective teaching of mathematics and its effects on student learning.

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About This Book and TestWare®

REA's TExES Mathematics 4–8 (115) test prep is a comprehensive guide designed to assist you in preparing to take this TExES test, the purpose of which is to ensure that you have the prerequisite content and professional knowledge necessary for an entry-level position in Texas public schools. To help you to succeed in this important step toward your teaching career, this book features:

- An accurate and complete overview of the competencies for the test
- The information you need to know about how the exam works
- A targeted review of each section of the exam
- Tips and strategies for successfully completing standardized tests
- Diagnostic tools to identify areas of strength and weakness
- Two full-length practice tests that replicate the question format and level of difficulty. The practice tests are provided in two formats: in printed form in this book and on the enclosed TestWare® CD-ROM.
- Detailed explanations for each answer on the practice tests. Designed specifically to clarify the material, the explanations not only provide the correct answers, but also explain why the other answer choices are incorrect.

When creating this test prep, the authors and editors considered the most recent test administrations and professional standards. They also researched information from the Texas Education Agency, professional journals, textbooks, and educators. The result is the best TExES test preparation materials based on the latest information available.

We strongly recommend that you begin your preparation with the TestWare® tests, which provide timed conditions and instantaneous, accurate scoring. To get the most out of your studying time, follow the Study Schedule that appears on page 9 of this book. It details how you can best budget your time.

About the TExES Mathematics 4–8 Test

The purpose of the TExES Mathematics 4–8 test is to assess the knowledge and skills of prospective Texas teachers in the areas of mathematics. The Mathematics 4–8 test will contain 80 scorable multiple-choice items and approximately 10 nonscorable items. Your final scaled score will be based only on scorable items. The nonscorable multiple-choice items are included for the purpose of pilot-testing of proposed new questions. These pilot questions do not count toward your score. However, they are not identified on the test either.

There will be four answer choices for each multiple-choice question. Answers will be marked on a separate answer sheet. Examinees are provided with both a definitions/formula page and a scientific calculator.

Who Administers the Test?

The Texas Education Agency has contracted with Educational Testing Service (ETS) to assist in the development and administration of the TExES.

For additional information you can contact:

ETS-Texas Educator Certification Program
PO Box 6051
Princeton, NJ 08541-6051
Telephone: 1-800-205-2626 (U.S., U.S. Territories, and Canada)
1-609-771-7393 (all other locations)
Hours: Monday-Friday 8:00 a.m.-5:00 p.m. Central time
Fax: 1-973-735-0156 or 1-866-484-5860
E-mail: texes-exct_inquiries@ets.org

Test Administration

The TExES tests are administered six times during the testing year. Each test date has morning and afternoon test sessions. Each session is five hours long.

Do I Pay a Registration Fee?

To take the TExES, you must pay a registration fee. For information about the fees, log on to <http://www.texes.ets.org/texes/AboutTheTest/>.

How Is the TExES Mathematics 4–8 Test Scored?

Test results are reported as scaled scores in a range from 100 to 300. Your total scaled score shows how you performed on the test as a whole and whether you passed the test. Your report will include Domain and Competency performance on each domain and each competency.

The scale score allows comparison among any version of the same test. The raw scores cannot be compared from one version of a test to another. You receive one point for each correct response and no points for each incorrect response. Most tests will also include nonscorable questions. Therefore the total number of questions reported on your score report is usually less than the total number of questions that you saw on the test. The nonscorable questions will not be used in the calculation of your score.

A total test scaled score that is reported on a scale of 100-300. The minimum passing score is a scaled score of 240. This score represents the minimum level of competency required to be an entry-level educator in this field in Texas public schools.

To gauge how well you do on the practice tests in this book and TestWare®, calculate your percentage right; a score of a 75% correct will assure that you will pass the TExES 115 exam.

When Will I Receive My Score Report, and What Will It Look Like?

Approximately four weeks after the test, you will receive a score report in the mail. The report will say if you have passed the test and will include your performance in the major content domains of the test and in the specific content competencies of the test. Be aware that this information may be less reliable because it may be based on fewer test questions.

Unofficial test scores will be posted on the Internet on the score report mailing date of each test administration. You can find information about receiving your unofficial scores, your score scale, and other score report topics on the SBEC Website at www.sbec.state.tx.us.

Can I Retake the Test?

If you wish to retake the paper-based test, you may do so at any subsequent paper-based test administration. You must wait 60 days to retake the test online. Please consult the TExES website at <http://texes.ets.org/texes/> for information about test registration. The TExES website also includes information regarding test retakes and score reports.

When Should I Start Studying?

It is never too early to start studying for the TExES Mathematics 4-8 test. The earlier you begin, the more time you will have to sharpen your skills. Do not procrastinate! Cramming is not an effective way to study because it does not allow you the time you need to think about the content, review the domains, and take the practice tests.

What Do the Review Sections Cover?

The targeted review in this book is designed to help you sharpen the mathematical skills you need to approach the TExES Mathematics 4-8 Test, as well as provide strategies for attacking the questions.

Each competency area included in the TExES Mathematics 4-8 test is examined in a separate chapter. The skills required for all domains are extensively discussed to optimize your understanding of what the examination covers.

Your schooling has taught you most of the information you need to answer the questions on the test. The review sections in this book are designed to help you fit the information you have acquired into the domains and competencies specified on the TExES. Going over your class notes and textbooks together with the reviews provided here will give you an excellent springboard for passing the examination.

Studying for the TExES Mathematics 4-8 Test

Choose the time and place for studying that works best for you. Some people set aside a certain number of hours every morning to study, while others prefer to study at night before going to sleep. Other people study off and on during the day for instance, while waiting for a bus or during a lunch break. Only you can determine when and where your study time will be most effective.

Be consistent and use your time efficiently. 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 table in a quiet room, free from distraction. On completing a practice test, score it and thoroughly review the explanations to the questions you answered incorrectly; however, do not review too much at any one time. Concentrate on one problem area at a time by reviewing the question and explanation, and by studying the review in this guide until you are confident that you have mastered the material. Keep track of your scores so you can gauge your progress and discover general weaknesses in particular sections. Give extra attention to the reviews that cover your areas of difficulty, so you can build your skills in those areas.

Many have found the use of study or note cards very helpful for this review. But you can condense or expand the time-line to suit your personal schedule. It is vital that you adhere to a structured plan and set aside ample time each day to study. The

more time you devote to studying, the more prepared and confident you will be on the day of the test. Don't wait until the last minute to begin your studying!

Test-Taking Tips

Although you may not be familiar with tests like the TExES, this book will acquaint you with this type of exam and help alleviate your test-taking anxieties. By following the seven suggestions listed here, you can become more relaxed about taking the TExES, as well as other tests.

Tip 1. Become comfortable with the format of the TExES. 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 TExES with much more confidence.

Tip 2. Read all the possible answers. Just because 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. If you can eliminate two answer choices, you have given yourself a better chance of getting the item correct, because only two choices are left from which to make your guess. Do not leave an answer blank; it is better to guess than not to answer a question on the TExES test because you will not be penalized for incorrect answers.

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

Tip 5. Work quickly and steadily. You will have a total of five hours to complete the test. Taking the practice tests in this book will help you learn to budget your time.

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

Tip 7. When taking the multiple-choice portion of the test, be sure that the answer oval you fill in corresponds to the number of the question in the test booklet. The multiple-choice test is graded by machine, and marking one wrong answer can throw off your answer key and your score. Be extremely careful.

Before the Test

On the morning of the test, be sure to dress comfortably so 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 will also spare you the anguish that comes with rushing. You should check your TExES Registration Bulletin to find out what time to arrive at the center.

What to Bring

Before you leave for the test center, make sure that you have your admission ticket. Your admission ticket lists your test selection, test site, test date, and reporting time. See the test selection at www.texes.ets.org/faq. You must also bring personal identification that includes one piece of current, government-issued identification, in the name in which you registered, bearing a recent photograph and signature and one additional piece of identification (with or without a photograph). If the name on your identification differs from the name in which you are registered, you must bring official verification of the change (e.g., marriage certificate, court order). Be sure to check the TExES website for any updates or changes in the identification policy.

You must bring several sharpened No. 2 pencils with erasers, because none will be provided at the test center. No mechanical pencils or mechanical erasers may be used. If you like, you can wear a watch to the test center. However, you cannot wear one that makes noise, because it might disturb the other test takers. Dictionaries, textbooks, notebooks, cell phones, beepers, PDAs, scratch paper, listening and recording devices, briefcases, or packages are not permitted. Drinking, smoking, and eating during the test are prohibited. Remember that cell phones are not allowed in the test center. Using or having a cell phone in your possession in the test center may be grounds for dismissal.

Security Measures

As part of the identity verification process, your thumbprint, or your photograph or videotape may be taken at the test site. A refusal to participate would lead to dismissal with no refund of test fees. This is in addition to the requirement that you must present acceptable and valid identification. It is important that you visit the testing website for the latest updates and security requirements and updates at <http://texes.ets.org/texes/>

Late Arrival Policy

You must report to the test site by the time stipulated. If you are late for a test session you will not be admitted.

During the Test

Any time that you take for restroom breaks is considered part of the available testing time, and additional testing time will not be granted. Procedures will be followed to maintain test security. Once you enter the test center, follow all the rules and instructions given by the test supervisor. If you do not, you risk being dismissed from the test and having your score canceled.

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

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:

Barbara Gunter:

Why don't make it to become your habit? Right now, try to ready your time to do the important take action, like looking for your favorite guide and reading a publication. Beside you can solve your trouble; you can add your knowledge by the book entitled TExES 115 Mathematics 4-8 w/CD-ROM (TExES Teacher Certification Test Prep). Try to make the book TExES 115 Mathematics 4-8 w/CD-ROM (TExES Teacher Certification Test Prep) as your pal. It means that it can to be your friend when you feel alone and beside regarding course make you smarter than ever. Yeah, it is very fortuned for you. The book makes you more confidence because you can know every little thing by the book. So , let's make new experience in addition to knowledge with this book.

Debra Espiritu:

In this 21st one hundred year, people become competitive in most way. By being competitive currently, people have do something to make these individuals survives, being in the middle of the particular crowded place and notice simply by surrounding. One thing that occasionally many people have underestimated it for a while is reading. That's why, by reading a publication your ability to survive increase then having chance to stay than other is high. For yourself who want to start reading a new book, we give you this particular TExES 115 Mathematics 4-8 w/CD-ROM (TExES Teacher Certification Test Prep) book as beginner and daily reading publication. Why, because this book is greater than just a book.

Jose Roberts:

A lot of people always spent their particular free time to vacation or maybe go to the outside with them family or their friend. Are you aware? Many a lot of people spent they free time just watching TV, as well as playing video games all day long. If you would like try to find a new activity honestly, that is look different you can read a new book. It is really fun for you personally. If you enjoy the book that you just read you can spent all day long to reading a reserve. The book TExES 115 Mathematics 4-8 w/CD-ROM (TExES Teacher Certification Test Prep) it is quite good to read. There are a lot of people who recommended this book. These folks were enjoying reading this book. Should you did not have enough space to deliver this book you can buy the actual e-book. You can m0ore quickly to read this book from the smart phone. The price is not very costly but this book features high quality.

Stephen Stansbury:

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