

# MTTC Mathematics (Secondary) (22) Test Secrets Study Guide: MTTC Exam Review for the Michigan Test for Teacher Certification

MTTC Exam Secrets Test Prep Team



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MTTC Mathematics (Secondary) (22) Test Secrets Study Guide: MTTC Exam Review for the Michigan Test for Teacher Certification MTTC Exam Secrets Test Prep Team \*\*\*Includes Practice Test Questions\*\*\* Get the test prep help you need to be successful on the MTTC Mathematics test. The MTTC Mathematics (Secondary) (22) Test is extremely challenging and thorough test preparation is essential for success. MTTC Mathematics (Secondary) (22) Test Secrets Study Guide is the ideal prep solution for anyone who wants to pass the MTTC Mathematics Test. Not only does it provide a comprehensive guide to the MTTC Mathematics Test as a whole, it also provides practice test questions as well as detailed explanations of each answer. MTTC Mathematics (Secondary) (22) Test Secrets Study Guide includes:

- A thorough overview of the MTTC Mathematics (Secondary) (22) Test
- A breakdown of mathematical processes and number concepts
- An in-depth look at patterns, algebraic relationships, and functions
- A guide to measurement and geometry
- An analysis of data analysis, statistics, probability, and discrete mathematics
- Comprehensive practice questions with detailed answer explanations

It's filled with the critical information you'll need in order to do well on the test: the concepts, procedures, principles, and vocabulary that the Michigan Department of Education (MDE) expects you to have mastered before sitting for the exam. **The Mathematical Processes and Number Concepts section covers:** 

- Multiplying and dividing signed numbers
- Properties of natural numbers
- Patterns of special products
- Inequalities
- Hyperbola
- Proofs
- Formal and informal reasoning
- The Golden Ratio and the Fibonacci sequence
- T-value vs. critical t-value

### The Patterns, Algebraic Relationships, and Functions section covers:

- Functions
- Stretch, shrink, and reflection
- Monotone, even, and odd functions, and discontinuities
- Matrix
- Domain, range, and asymptotes
- Law of Sines and the Law of Cosines
- When limit does not exist
- First Derivative Test

#### The Measurement and Geometry section covers:

- Altitude, height, concurrent, and orthocenter
- Plane
- Acute, right, and obtuse
- · Arc length and sector
- Area and perimeter of polygons
- Volume and total surface area of various 3-d shapes
- Geometric description of parabola

### The Data Analysis, Statistics, Probability, and Discrete Mathematics section covers:

- Sample space and outcome
- Permutations and combinations
- Odds in favor or against
- Five number summary
- Inferential statistics and sampling distribution
- Number of permutations
- Euler and Hamiltonian path

These sections are full of specific and detailed information that will be key to passing the MTTC Mathematics Test. Concepts and principles aren't simply named or described in passing, but are explained in detail. The guide is laid out in a logical and organized fashion so that one section naturally flows from the one preceding it. Because it's written with an eye for both technical accuracy and accessibility, you will not have to worry about getting lost in dense academic language. Any test prep guide is only as good as its practice questions and answers, and that's another area where our guide stands out. Our test designers have provided scores of test questions that will prepare you for what to expect on the actual MTTC Mathematics Test. Each answer is explained in depth, in order to make the principles and reasoning behind it crystal clear.



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