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MTEL Mathematics (09) Exam Secrets Study Guide: MTEL Test Review for the Massachusetts Tests for Educator Licensure

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*****Includes Practice Test Questions*****

Get the test prep help you need to be successful on the MTEL Mathematics test.

The MTEL Mathematics (09) Exam is extremely challenging and thorough test preparation is essential for success. ***MTEL Mathematics Exam Secrets Study Guide*** is the ideal prep solution for anyone who wants to pass the MTEL Mathematics Exam.

Not only does it provide a comprehensive guide to the MTEL Mathematics Exam as a whole, it also provides practice test questions as well as detailed explanations of each answer.

MTEL Mathematics (09) Exam Secrets Study Guide includes:

- A thorough and detailed overview of mathematics for educators
- A guide to number sense and operations
- An overview of patterns, relations, and algebra
- A review of geometry and measurement
- An in-depth look at data analysis, statistics and probability
- A guide to trigonometry, calculus, 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 Massachusetts Department of Education (MDOE) expects you to have mastered before sitting for the exam.

The Number Sense and Operations section covers:

- Signed numbers
- Percent
- Polynomials
- Complex fractions
- Inequalities
- Quadratic formula
- Line equations
- Solving radical equations

The Patterns, Relations, and Algebra section covers:

- One-to-one functions
- Absolute value functions
- Square root functions

- Linear functions
- Quadratic function

The Geometry and Measurement section covers:

- Perpendicular and angle bisectors
- Median and centroid
- Quadrilaterals, parallelograms, and trapezoids
- Rectangles, rhombuses, and squares
- Types of angles
- Plane
- Equilateral, isosceles, scalene triangles
- Center, radius, and diameter
- Pythagorean Theorem

The Data Analysis, Statistics, and Probability section covers:

- Probability of an event
- Permutations and combinations
- Event complement
- Expected value
- Graphs
- Central tendency
- Standard deviation
- Correlational studies

The Trigonometry, Calculus, and Discrete Mathematics section covers:

- Positive trigonometric functions
- Law of Sines and the Law of Cosines
- Limits of functions
- Derivative
- Rate of change, velocity, and acceleration
- Properties of integrals
- Matrix
- Planar figures

These sections are full of specific and detailed information that will be key to passing the MTEL Mathematics Exam. 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 MTEL Mathematics Exam. Each answer is explained in depth, in order to make the principles and reasoning behind it crystal clear.

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