



# **ILTS Mathematics (115) Exam Secrets Study Guide: ILTS Test Review for the Illinois Licensure Testing System**

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# ILTS Mathematics (115) Exam Secrets Study Guide: ILTS Test Review for the Illinois Licensure Testing System

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## **ILTS Mathematics (115) Exam Secrets Study Guide: ILTS Test Review for the Illinois Licensure Testing System** ILTS Exam Secrets Test Prep Team

**\*\*\*Includes Practice Test Questions\*\*\*** Get the test prep help you need to be successful on the ILTS Mathematics test. The ILTS Mathematics (115) Exam is extremely challenging and thorough test preparation is essential for success. *ILTS Mathematics (115) Exam Secrets Study Guide* is the ideal prep solution for anyone who wants to pass the ILTS Mathematics Exam. Not only does it provide a comprehensive guide to the ILTS Mathematics Exam as a whole, it also provides practice test questions as well as detailed explanations of each answer. *ILTS Mathematics (115) Exam Secrets Study Guide* includes:

- A detailed overview of the ILTS Mathematics (115) Exam
- A guide to processes and applications
- An in-depth look at number sense and measurements
- A full study of algebraic patterns, symbols, functions, and models
- An analysis of geometric methods
- A breakdown of probability and statistics
- 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 Illinois State Board of Education (ISBE) expects you to have mastered before sitting for the exam. **The Processes and Applications section covers:**

- Proofs
- Inductive and deductive reasoning
- Mathematical induction proof utilizing inductive reasoning
- Formal reasoning
- The Golden Ratio and the Fibonacci sequence
- T-value vs. critical t-value

### **The Number Sense and Measurements section covers:**

- Multiplying and dividing signed numbers
- Properties of natural numbers
- Patterns of special products
- Inequalities
- Hyperbola
- Approximate and maximum possible error

### **The Algebraic Patterns, Symbols, Functions, and Models section covers:**

- Functions
- Stretch, shrink, and reflection
- Rational functions
- Monotone, even, and odd functions, and discontinuities
- Equal functions
- Matrix

- Fundamental Theorems of Calculus
- Domain, range, and asymptotes
- Inverse trigonometric functions
- First Derivative Test

**The Geometric Methods section covers:**


- Altitude, height, concurrent, and orthocenter
- Types of angles
- 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 Probability and Statistics section covers:**

- Sample space and outcome
- Permutations and combinations
- Odds in favor or against
- Statistical median
- Inferential statistics and sampling distribution
- Loop and degree sum formula

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

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