

Applied Liberal Arts Mathematics MAT-105-TE

This TECEP® tests a broad-based overview of mathematics intended for non-math majors and emphasizes problem-solving modeled on real-life applications. Topics include number systems; solution of basic algebraic problems; sets, logic, and probability; interpretation of statistical data; arithmetic systems and calculations involving geometric objects. (3 s.h.)

- Test format: 40 multiple-choice questions (1 point each)
- Passing score: 70% (44/60 points). Your grade will be reported as CR (credit) or NC (no credit).
- Time limit: 3 hours
- You may use a scientific calculator (non-graphing, non-programmable) during testing.

Topics on the test and their approximate distribution

1. **Critical thinking** (5%)
 - A. Inductive and deductive reasoning
 - B. Problem-solving
2. **Sets and statements** (20%)
 - A. Sets and subsets; set-builder notation; roster form
 - B. Subsets; equal sets; equivalent sets
 - C. Venn diagrams; union of sets; intersection of sets
 - D. Venn diagrams with three sets
 - E. Simple and compound statements; quantifiers "and" and "or" and their symbols; conjunction and disjunctions; conditional and biconditional statements
 - F. Truth value of a compound statement (no truth tables)
3. **Systems of numeration** (5%)
 - A. Place value or positional value numeration
 - B. Hindu-Arabic and Roman numerals; base 10 expanded form; base 2 numbers; conversion between base 10 and base 2
4. **Real number systems** (20%)
 - A. Prime and composite numbers; divisibility rules; prime factors of composite numbers
 - B. Integers; the real number line and operations with integers
 - C. Fractions and reducing fractions; conversion between decimal numbers and fractions; operations with fractions
 - D. Properties of real numbers such as distributive property
 - E. Rules of exponents (not including scientific notation)
5. **Algebra, graphs and functions** (20%)
 - A. Order of operations
 - B. Simplifying expressions; equations with one variable; proportion problems
 - C. Evaluation of formulas
 - D. Graphs of linear equations in the rectangular coordinate system
 - E. Functions; vertical line test; domain and range

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Kaplan Test Prep



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