



2025 OWLympiad Math Competition

Rules:

- This is a team exam.
- There are 70 multiple-choice and 10 open-ended questions.
- Teams will have 75 minutes to complete the exam.
- No calculators may be used.





2025 OWLympiad Team Exam Syllabus

Teams should be able to use and apply the following mathematical concepts:

1. Algebra I & II (50-55%)

- Simplifying Radicals
- Distance and Slope of a Line
- Graphing on the Coordinate Axes
- Probability, Combinations, and Permutations
- Factoring and the Quadratic Equation
- Inequalities and Absolute Values
- Matrices
- Inverse and Composite Functions
- Time Value of Money, Percents, Rates
- Descriptive Statistics
- Mathematical Logic and Reasoning

2. Geometry (10-15%)

- Similarities and Congruencies
- Perimeter, Lines, Area, and Volume
- Geometric Theorems and Proofs

3. Trigonometry/Pre-calculus (10%-15%)

- Trigonometric Identities
- Natural Logarithm and Logarithmic Identities

4. Calculus (15%-20%)

- Velocity and Acceleration
- Critical points, Increasing and Decreasing Functions
- Limits, Series, and Sums
- Derivatives
- Anti-derivatives
- Area Under a Curve