AMC8 WEDNESDAY INTENSIVE

Seven Weeks of Focused Preparation Before the AMC8

This intensive course is for students planning to compete at the AMC8 this January who want to improve their performance on problems in the #12–#25 difficulty range.

The class meets for seven Wednesdays before the exam, 6:15–8:15 PM, from November 11 through January 13. Students may enroll in the full course or attend individual sessions as drop-ins.

The first six sessions each focus on a major AMC8 topic, combining key concepts and competition skills with extensive problem solving. The final session is a full AMC8 simulation with review. Homework will be assigned after each class.

Weekly Schedule

Date	Session	Topics Covered
Nov. 11	Lesson 1: Number Sense & Arithmetic	Fractions, ratios, percentages, decimals, averages, unit conversions. Estimation and mental math.
Nov. 18	Lesson 2: Algebra & Equations	Linear equations, proportions, sequences, patterns, inequalities. Turning words into equations.
Dec. 2	Lesson 3: Geometry I	Angles, triangles, polygons, perimeter and area. Diagram analysis, angle chasing, hidden relationships.
Dec. 9	Lesson 4: Geometry II	Similar and right triangles, Pythagorean theorem, circles, coordinate geometry. Visual shortcuts.
Dec. 16	Lesson 5: Counting & Probability	Counting principle, casework, arrangements, probability, complementary counting.
Jan. 6	Lesson 6: Number Theory & Challenging Problems	Divisibility, primes, factors, remainders, parity, digits. Patterns, working backward, strategic guessing.
Jan. 13	Lesson 7: Full AMC 8 Simulation + Review	Full-length mixed AMC 8 test. Timing, problem selection, error analysis, contest strategy.

Prerequisites

Students should have solid skills in fractions, ratios, percentages, and basic equations, have some exposure to geometry, and some experience solving non-routine problems. The course moves at a fairly fast pace and is intended for students ready for a challenge. Prior math-competition experience (such as Math Kangaroo or an earlier AMC 8) is helpful but not required.

Grades: 6–8; younger students with relevant experience are welcome.

Pricing

$400 per full course · **$65** per drop-in session