



PSAT-SAT Math 7-9 Syllabus

Course Goals

1 Develop Math Skills for SAT/PSAT

Students improve their proficiency with the concepts and types of questions that appear in the PSAT and SAT math sections, and they develop problem-solving techniques for them.

2 Develop SAT/PSAT Success Strategies

Students build familiarity with the format and structure of the SAT/PSAT math section, they and learn test-taking strategies for tackling difficult problems. They become familiar with working under the test's time constraints and develop time management strategies.

Course Topics

1 Numbers and Operations

Students review order of operations, fractions, percentages, operations with negative numbers, and associated rules and formulas to ensure proficiency in these areas.

2 Algebra and Functions

Students develop skill with algebraic expressions, equations and systems of equations, substitution, isolation of variables, and functions and notation of functions.

3 Geometry and Measurement

Students develop skill with geometry problems involving angles and triangles, polygons, and circles. They develop proficiency with measurement problems and calculation of area, circumference, perimeter, and volume.

4 Data Analysis, Statistics, and Probability

Students develop proficiency with math problems that involve statistics, data interpretation, probability, and visual data representations such as charts and graphs. They learn methods for interpreting and manipulating data in these problems.

5 Test Structure and Format

Students become familiar with the format, structure, and time constraints of the test and improve their test-taking time management skills.

6 Strategies for Mathematics Questions

Students develop strategies and skills for solving math problems on the SAT/PSAT, such as estimation, pseudo-operations, and assessment of answers to quickly identify unreasonable choices.

7 Test Scoring and Rubric

Students become familiar with the scoring mechanisms used on the SAT/PSAT and the rubric on which scores are assessed.

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