

SAT Overview

SAT Sections:

Component	Time Allotted (minutes)	Number of Questions/Tasks
Reading and Writing	64 (two 32-minute modules)	54
Math	70 (two 35-minute modules)	44
Total	134	98

***About 1.59 minutes per question**

SAT vs ACT

SAT gives more time per question (ACT is 50 questions in 45 minutes), slight less focus on Geometry
More conceptual questions on SAT than ACT; formula sheet on SAT, not on ACT

Adaptive Testing:

Each section is divided into **2 equal length modules**, and there is a 10-minute break between the Reading and Writing section and the Math section. The first module of each section contains a broad mix of easy, medium, and hard questions. Based on how you perform on the first module, the second module of questions will either be more difficult or less difficult.

- Allows for shorter testing time (2 hours instead of 3)
- You CAN jump back and forth between questions in a module, previewing upcoming questions or marking earlier questions to return to if you have time. You cannot revisit the previous module.
- No penalty for guessing. It's better to answer every question the best you can.
- This format doesn't require continuous connection to the internet during testing. If you lose your internet connection during testing, you can continue testing without disruption.
- You must answer every question correctly and be routed to a higher module for a 1600.

Math Topics

<i>Algebra, 13-15 questions</i> • Linear equations in 1 variable • Linear equations in 2 variables • Linear functions • Systems of 2 linear equations in 2 variables • Linear inequalities in 1 or 2 variables	<i>Advanced Math 13-15 questions</i> • Equivalent expressions • Nonlinear equations in 1 variable • Systems of equations in 2 variables • Nonlinear functions
<i>Problem Solving and Data Analysis 5-7 questions</i> • Ratios, rates, proportional relationships, and units • Percentages • One-variable data: distributions and measures of center and spread • Two-variable data: models and scatterplots • Probability and conditional probability • Inference from sample statistics and margin of error • Evaluating statistical claims: observational studies and experiments	<i>Geometry and Trigonometry 5-7 questions</i> • Area and volume formulas • Lines, angles, and triangles • Right triangles and trigonometry • Circles

- Questions from all four categories appear in each test module. Across each module, questions are arranged from easiest to hardest,
- Approximately 30% of Math questions are set in context. These in-context ("word") questions require you to consider a science, social studies, or real-world scenario and apply your math skills and knowledge, along with an understanding of the context, to determine the answer to each.

Student Produced Responses

- 75% of math questions are 4-option multiple choice
- 25% are student produced response (SPR)
 - SPRs may have more than one answer, students will only supply one
 - Enter answer in a digital response field positioned near the question
 - For repeating decimals, use fractions
 - Do not round, unless instructed to do so
 - Keep typing until Bluebook stops you
 - Check in the Answer Preview area
 - Helpful video with instructions: <https://www.youtube.com/watch?v=wUVxI6Lw7KI>

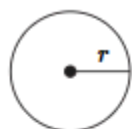
Calculators:

Desmos Graphing and Scientific Calculators are provided within the test and students may toggle between them at any point.

Only non-CAS (computer algebra system) calculators are allowed.

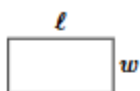
<https://satsuite.collegeboard.org/sat/what-to-bring-do/calculator-policy>

Formula Sheet:

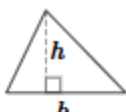


$$A = \pi r^2$$

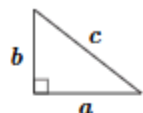
$$C = 2\pi r$$



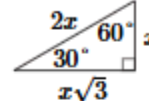
$$A = \ell w$$



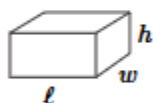
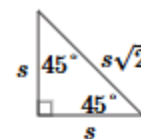
$$A = \frac{1}{2}bh$$



$$c^2 = a^2 + b^2$$



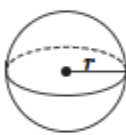
Special Right Triangles



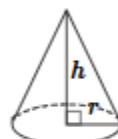
$$V = \ell wh$$



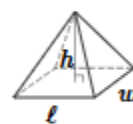
$$V = \pi r^2 h$$



$$V = \frac{4}{3}\pi r^3$$



$$V = \frac{1}{3}\pi r^2 h$$



$$V = \frac{1}{3}\ell wh$$

The number of degrees of arc in a circle is 360.

The number of radians of arc in a circle is 2π .

The sum of the measures in degrees of the angles of a triangle is 180.

Preparation Resources

Practice Tests on Bluebook <https://satsuite.collegeboard.org/practice/bluebook>

Khan Academy Tips & Practice <https://www.khanacademy.org/test-prep/v2-sat-math>

PDFs of Practice Tests: <https://satsuite.collegeboard.org/practice/practice-tests/paper>