

College Board SAT Mathematics Level 2 Subject Test

Points	Time	Questions
800	60	50 (Multiple Choice)

The Day of the Test

Make sure you **PRINT YOUR ADMISSION TICKET**

- Find it on your College Board account

Bring your **Student ID**

All test centers open at 7:45 a.m. and doors close at 8 a.m.
(unless otherwise noted on your admission ticket)

- You will not be admitted after 8 a.m

Bring two **No. 2 pencils** with erasers

Bring a **charged graphing calculator** (TI-84 strongly recommended, see [Acceptable Calculators](#) list)

- **MAKE SURE YOUR CALCULATOR IS CHARGED**

Read over the information on your Admission Ticket to make sure you did not miss anything.

Recommended (but optional): ○ A watch ○ Extra batteries for your calculator	Not allowed: ○ Electronics (besides calculator) ○ Highlighters, rulers, earplugs, dictionaries or any other books, pens or mechanical/colored pencils, pamphlets, paper
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Potential Topics

FORMAT/CONTENT	Approximate % Level 1 Test	Approximate % Level 2 Test
50 multiple-choice questions each		
Topics Covered* (<i>topics in italics are tested on Level 2 Test only</i>)	Level 1	Level 2
Number and Operations Operations, ratio and proportion, complex numbers, counting, elementary number theory, matrices, sequences, <i>series</i> , <i>vectors</i>	10%–14%	10%–14%
Algebra and Functions Expressions, equations, inequalities, representation and modeling, properties of functions (linear, polynomial, rational, exponential, <i>logarithmic</i> , <i>trigonometric</i> , <i>inverse trigonometric</i> , <i>periodic</i> , <i>piecewise</i> , <i>recursive</i> , <i>parametric</i>)	38%–42%	48%–52%
Geometry and Measurement	38%–42%	28%–32%
Plane Euclidean/Measurement	18%–22%	-
Coordinate Lines, parabolas, circles, <i>ellipses</i> , <i>hyperbolas</i> , symmetry, transformations, <i>polar coordinates</i>	8%–12%	10%–14%
Three-dimensional Solids, surface area and volume (cylinders, cones, pyramids, spheres, prisms), <i>coordinates in three dimensions</i>	4%–6%	4%–6%
Trigonometry Right triangles, identities, <i>radian measure</i> , <i>law of cosines</i> , <i>law of sines</i> , <i>equations</i> , <i>double angle formulas</i>	6%–8%	12%–16%
Data Analysis, Statistics and Probability Mean, median, mode, range, interquartile range, <i>standard deviation</i> , graphs and plots, least-squares regression (linear, <i>quadratic</i> , <i>exponential</i>), probability	8%–12%	8%–12%
*The content of Level 1 overlaps somewhat with that on Level 2, but the emphasis on Level 2 is on more advanced content. Plane Euclidean geometry is not tested directly on Level 2.		

Tips

Get to know your calculator EXTREMELY WELL

- Logs with unique bases
- Permutations/Combinations
- Graphing (max/min, limits, etc.)
- Factorials
- Radians/Degrees
 - Keep your calculator in degree mode for the majority of the test
 - Some questions switch to radians, but the majority are in degrees
- Read your manual!

If you don't know how to solve something, try plugging all the answer choices in (brute force)

SCORING

- One point is added for each correct answer.
- A fraction of a point is subtracted for wrong answers:
 - 1/4 point is subtracted for five-choice questions.
 - 1/3 point is subtracted for four-choice questions.
 - 1/2 point is subtracted for three-choice questions.
- No points are deducted for unanswered questions.
- If the resulting score is a fraction, it is rounded to the nearest whole number – 1/2 or more is rounded up; less than 1/2 is rounded down.
- For more information:
<https://collegereadiness.collegeboard.org/sat-subject-tests/scores/how-tests-are-scored>

Calculator Skills

The following graphing calculators are permitted on the SAT Subject Tests in Mathematics, Levels 1 and 2:

Casio		Hewlett-Packard	Sharp	Texas Instruments
FX-6000 series	FX-9700 series	HP-9G	EL-5200	TI-73
FX-6200 series	FX-9750 series	HP-28 series	EL-9200 series	TI-80
FX-6300 series	FX-9860 series	HP-38G	EL-9300 series	TI-81
FX-6500 series	CFX-9800 series	HP-39 series	EL-9600 series*	TI-82
FX-7000 series	CFX-9850 series	HP-40 series	EL-9900 series	TI-83/TI-83 Plus
FX-7300 series	CFX-9950 series	HP-48 series		TI-83 Plus Silver
FX-7400 series	CFX-9970 series	HP-49 series		TI-84 Plus
FX-7500 series	FX 1.0 series	HP-50 series	Other	TI-84 Plus CE
FX-7700 series	Algebra FX 2.0 series	HP Prime	Datexx DS-883	TI-84 Plus Silver
FX-7800 series	FX-CG-10		Micronta	TI-84 Plus C Silver
FX-8000 series	FX-CG-20 series	Radio Shack	Smart ²	TI-84 Plus T
FX-8500 series	FX-CG-50	EC-4033		TI-84 Plus CE-T
FX-8700 series	Graph25 series	EC-4034		TI-85
FX-8800 series	Graph35 series	EC-4037		TI-86
	Graph75 series			TI-89
	Graph95 series			TI-89 Titanium
	Graph100 series			TI-Nspire
	FX-CG500*			TI-Nspire CX
				TI-Nspire CX CAS
				TI-Nspire CM-C
				TI-Nspire CAS
				TI-Nspire CM-C CAS
				TI-Nspire CX-C CAS

Additional Resources

**The SAT
Subject Tests™**

**Student
Guide**

<https://collegereadiness.collegeboard.org/pdf/sat-subject-tests-student-guide.pdf>

**Practice
Questions**

<https://collegereadiness.collegeboard.org/sat-subject-tests/subjects/mathematics/mathematics-2/sample-questions/1>