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Sat math calculator tips

If you're considering taking SAT Subject Tests and math is a strong subject for you, you'll need to decide which SAT Subject Test in math to take. There are two Math SAT Subject Tests: Math 1 and Math 2 (also written as Math Level 1 and Math Level 2, or Math I and Math II). Math 2 is meant for students with more high school math coursework and covers a broader range of topics than Math 1 does. Other than that, the two tests are pretty similar: both have 50 multiple-choice questions and a 60-minute time limit. In this article, I'll go over what's covered in Math 1, what's covered in Math 2, their similarities and differences, whether Math 1 is easier than Math 2, and how to choose which Subject Test to take. Note: This article deals with the two Math SAT Subject Tests, not the Math section on the regular SAT. To learn more about the SAT Math section and how to do well on it, check out our ultimate SAT Math prep guide. Update: SAT Subject Tests No Longer Offered or Required In January 2021, the College Board announced that, effective immediately, no further SAT Subject Tests will be offered in the United States (and that SAT Subject Tests would be offered internationally only through June 2021). It is now no longer possible to take SAT Subject Tests. In the past several years, many schools have dropped their Subject Test requirements, and by the time the College Board made their announcement, nearly no schools required them. With this news, no colleges will require Subject Tests, even from students who could have hypothetically taken the exams a few years ago. Some schools may consider your Subject Test scores if you submit them, similar to how they consider AP scores, but you should contact the specific schools you're interested in to learn their exact policies. Many students were understandably confused about why this announcement happened midyear and what this means for college applications going forward. Read more about the details of what the end of SAT Subject Tests means for you and your college apps here. What's Covered on SAT Math 1? SAT Subject Test Math 1 covers the topics you learn in one year of geometry and two years of algebra. Here's what you can expect to see on the test: Topics and Subtopics % of Math 1 SAT Subject Test Approximate # of Questions Number and Operations 10-14% 5-7 Operations, ratio and proportion, complex numbers, counting, elementary number theory, matrices, sequences Algebra and Functions 38-42% 19-21 Expressions, equations, inequalities, representation and modeling, properties of functions (linear, polynomial, rational, exponential) Geometry and Measurement 38-42% 19-21 Plane Euclidean/Measurement 18-22% 9-11 Coordinate: Lines, parabolas, circles, symmetry, transformations 8-12% 4-6 Three-dimensional: solids, surface area and volume (cylinders, cones, pyramids, spheres, prisms) 4-6% 2-3 Trigonometry: right triangles and identities 6-8% 3-4 Data Analysis, Statistics, and Probability 8-12% 4-6 Mean, median, mode, range, interquartile range, graphs and plots, least-squares regression (linear), probability Source: SAT Subject Tests Student Guide As you can see, most of the questions will be about algebra, functions, or geometry. This means that when you are studying for Math 1, these are the main areas you should focus on. There will also be a few questions (about five) on data analysis/statistics/probability. I'm calling this out because it's something many students haven't spent a lot of time on in class. What's Covered on SAT Math 2? The SAT Subject Test Math 2 covers most of the same topics as Math 1—information that would be covered in one year of geometry and two years of algebra—plus precalculus and trigonometry. However, the geometry concepts learned in a typical geometry class are only assessed indirectly through more advanced geometry topics such as coordinate and three-dimensional geometry. Here is a chart with topics and percentage breakdowns: % of Math 2 SAT Subject Test Approximate # of Questions Number and Operations 10-14% 5-7 Operations, ratio and proportion, complex numbers, counting, elementary number theory, matrices, sequences, series, vectors Algebra and Functions 48-52% 24-26 Expressions, equations, inequalities, representation and modeling, properties of functions (linear, polynomial, rational, exponential, logarithmic, trigonometric, inverse trigonometric, periodic, piecewise, recursive, parametric) Geometry and Measurement 28-32% 14-16 Coordinate: lines, parabolas, circles, ellipses, hyperbolas, symmetry, transformations, polar coordinates 10-14% 5-7 Three-dimensional: solids, surface area and volume (cylinders, cones, pyramids, spheres, prisms), coordinates in three dimensions 4-6% 2-3 Trigonometry: right triangles, identities, radian measure, law of cosines, law of sines, equations, double angle formula 12-16% 6-8 Data Analysis, Statistics, and Probability 8-12% 4-6 Mean, median, mode, range, interquartile range, standard deviation, graphs and plots, least squares regression (linear, quadratic, exponential), probability Source: SAT Subject Tests Student GuideIt's worth noting that on the main College Board page for Math 2, they (incorrectly) state that the test is 48-52% geometry. But in the SAT Subject Tests Student Guide, you can see that the actual percentage is 28-32%. Let's all be glad that the questions on College Board tests are much more closely vetted than what goes on their website! In terms of individual topics, the Math 2 test is, by far, weighted most heavily toward algebra and functions, with about half the questions in this area. You can also expect to see a sizable chunk of trigonometry. Knowing the properties of all different types of functions, including trigonometric functions, is the single most important topic to study for the Math 2 test. If you don't know all of that backwards and forwards, there will be a lot of questions you simply don't understand. Your friend, the triangle. SAT Subject Test Math 1 vs Math 2: Similarities and Differences To give you an easy-to-follow overview when you are comparing tests, I'll quickly go over which topics are covered on both exams and which you can expect to see only on Math 1 and only on Math 2, respectively. Topics on Both Math 1 and Math 2 We'll start by looking at the general topics that are present on both Math Subject Tests. Numbers and Operations Operations: Basic multiplication, division, addition, and subtraction. Remember the proper order of operations! Ratio and Proportion: Value comparisons and relationships between value comparisons. (Think: how many of one thing relative to another thing? Three cows for every two sheep?) Complex Numbers: Numerical expressions that include imaginary numbers. Counting: How many combinations are possible given certain conditions. For example, if there are eight chairs and eight guests, how many orders could the guests sit in? Elementary Number Theory: Properties of integers, factorization, prime factors, etc. Matrices: Basic operations with number grids. Sequences: Number patterns. Geometry Geometry on the coordinate plane, including questions about lines, parabolas, circles (and circle equations), symmetry, and transformations. With the exception of circles, coordinate geometry is less concerned with the actual functions making the figures and more with the properties of figures: is the shape symmetrical? How long is this segment of the line? And so on. Three-dimensional: Calculating the surface area and volume of cylinders, cones, pyramids, spheres, and prisms. Trigonometry: Right triangles and the Pythagorean theorem as well as basic trig identities such as sine, cosine, and tangent. Algebra Expressions: Mathematical phrases with variables, numbers, and operators (like $x+3$ or $2x+9y−4$). You must know how to factor, expand, and manipulate these expressions. Equations: An expression that is set to be equal to something, like $x+3=10$. You'll need to understand how to solve these. You'll also need to be able to solve systems of equations. Inequalities: Expressions set to be greater or less than a value, like $x+3

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