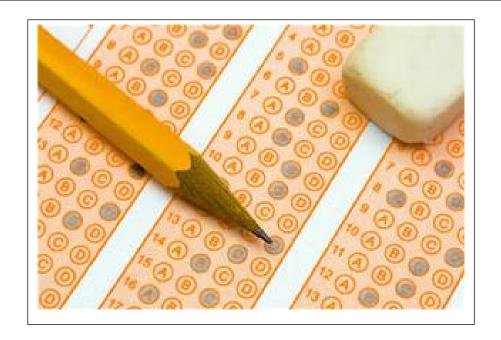


# SAT PREP Curriculum



# MATHEMATICS Unit I



# Course Description

According to The College Board, the Math test of the redesigned SAT (2016) will assess students' readiness for college and career. Specifically, the Math test will assess the students' fluency with procedural steps, conceptual knowledge, and representational skills. The overarching goal of the New SAT is to ensure that the students are able to analyze real-life problems and use appropriate strategies to solve them.

The SAT Prep course (Math) will cover the Mathematics part during Marking Periods I and III. For ease of understanding and pacing, there will be a total of two units of Math, one in each Marking Period. In this course, students will explore how Mathematics as a tool is used to understand and solve problems in Physical Science, Social Science, Medical Science, History, Business, and Technology. They will be expected to analyze a given scenario, then abstract, develop mathematical models using multiple representations of the quantitative information, and answer related questions. The quality of students' responses to such real-life problems, and therefore their score, will depend to a great extent on their cognitive skills, use of effective mathematical processes, reasoning, critical thinking skills, and thinking time.

Regardless of the entry level of a student into this course, the teacher will teach the units providing enough opportunities for each student to practice problem solving in groups and individually. In addition to daily homework, the teacher will provide study guides, including time management strategies and web links for additional problems after each marking period. A mid-term exam will be administered using problems covered during the first marking period. At the end of the second Marking period, students will have the opportunity to take a full length sample SAT as the final exam for the course.

Assessment results from this course may be used to evaluate a student's quantitative skills for placement into higher level Math courses or as a graduation requirement.



Their 1	September 1 – September 30	Number and Quantity	Instruction: 4 weeks
Unit 1	October 1 – October 30	Geometry	Instruction: 4 weeks
		Mid-Term Exam on	
Mid-Term Review and Exam	November 2 – November 13	Number and Quantity and Geometry	Remediation/Enrichment and  Assessment: 1 week

# **Educational Technology Standards**

8.1.12.A.1, 8.1.12.A.2, 8.1.12.B.2, 8.1.12.C.1, 8.1.12.D.1, 8.1.12.D.2, 8.1.12.D.3, 8.1.12.E.1, 8.1.12.F.1

#### > Technology Operations and Concepts

- Create a personal digital portfolio which reflects personal and academic interests, achievements, and career aspirations by using a variety of digital tools and resources
- Produce and edit a multi-page digital document for a commercial or professional audience and present it to peers and/or professionals in that related area for review.

#### > Creativity and Innovation

Apply previous content knowledge by creating and piloting a digital learning game or tutorial.

#### Communication and Collaboration

• Develop an innovative solution to a real world problem or issue in collaboration with peers and experts, and present ideas for feedback through social media or in an online community.

#### Digital Citizenship

- Demonstrate appropriate application of copyright, fair use and/or Creative Commons to an original work.
- Evaluate consequences of unauthorized electronic access and disclosure, and on dissemination of personal information.
- Compare and contrast policies on filtering and censorship both locally and globally.

#### > Research and Information Literacy

 Produce a position statement about a real world problem by developing a systematic plan of investigation with peers and experts synthesizing information from multiple sources.

#### > Critical Thinking, Problem Solving, Decision Making

• Evaluate the strengths and limitations of emerging technologies and their impact on educational, career, personal and or social needs.

Career Ready Practices describe the career-ready skills that all educators in all content areas should seek to develop in their students. They are practices that have been linked to increase college, career, and life success. Career Ready Practices should be taught and reinforced in all career exploration and preparation programs with increasingly higher levels of complexity and expectation as a student advances through a program of study.

#### CRP1. Act as a responsible and contributing citizen and employee

Career-ready individuals understand the obligations and responsibilities of being a member of a community, and they demonstrate this understanding every day through their interactions with others. They are conscientious of the impacts of their decisions on others and the environment around them. They think about the near-term and long-term consequences of their actions and seek to act in ways that contribute to the betterment of their teams, families, community and workplace. They are reliable and consistent in going beyond the minimum expectation and in participating in activities that serve the greater good.

#### CRP2. Apply appropriate academic and technical skills.

Career-ready individuals readily access and use the knowledge and skills acquired through experience and education to be more productive. They make connections between abstract concepts with real-world applications, and they make correct insights about when it is appropriate to apply the use of an academic skill in a workplace situation

#### CRP3. Attend to personal health and financial well-being.

Career-ready individuals understand the relationship between personal health, workplace performance and personal well-being; they act on that understanding to regularly practice healthy diet, exercise and mental health activities. Career-ready individuals also take regular action to contribute to their personal financial wellbeing, understanding that personal financial security provides the peace of mind required to contribute more fully to their own career success.

#### CRP4. Communicate clearly and effectively and with reason.

Career-ready individuals communicate thoughts, ideas, and action plans with clarity, whether using written, verbal, and/or visual methods. They communicate in the workplace with clarity and purpose to make maximum use of their own and others' time. They are excellent writers; they master conventions, word choice, and organization, and use effective tone and presentation skills to articulate ideas. They are skilled at interacting with others; they are active listeners and speak clearly and with purpose. Career-ready individuals think about the audience for their communication and prepare accordingly to ensure the desired outcome.

#### CRP5. Consider the environmental, social and economic impacts of decisions.

Career-ready individuals understand the interrelated nature of their actions and regularly make decisions that positively impact and/or mitigate negative impact on other people, organization, and the environment. They are aware of and utilize new technologies, understandings, procedures, materials, and regulations affecting the nature of their work as it relates to the impact on the social condition, the environment and the profitability of the organization.

#### CRP6. Demonstrate creativity and innovation.

Career-ready individuals regularly think of ideas that solve problems in new and different ways, and they contribute those ideas in a useful and productive manner to improve their organization. They can consider unconventional ideas and suggestions as solutions to issues, tasks or problems, and they discern which ideas and suggestions will add greatest value. They seek new methods, practices, and ideas from a variety of sources and seek to apply those ideas to their own workplace. They take action on their ideas and understand how to bring innovation to an organization.

#### CRP7. Employ valid and reliable research strategies.

Career-ready individuals are discerning in accepting and using new information to make decisions, change practices or inform strategies. They use reliable research process to search for new information. They evaluate the validity of sources when considering the use and adoption of external information or practices in their workplace situation.

#### CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.

Career-ready individuals readily recognize problems in the workplace, understand the nature of the problem, and devise effective plans to solve the problem. They are aware of problems when they occur and take action quickly to address the problem; they thoughtfully investigate the root cause of the problem prior to introducing solutions. They carefully consider the options to solve the problem. Once a solution is agreed upon, they follow through to ensure the problem is solved, whether through their own actions or the actions of others.

#### CRP9. Model integrity, ethical leadership and effective management.

Career-ready individuals consistently act in ways that align personal and community-held ideals and principles while employing strategies to positively influence others in the workplace. They have a clear understanding of integrity and act on this understanding in every decision. They use a variety of means to positively impact the directions and actions of a team or organization, and they apply insights into human behavior to change others' action, attitudes and/or beliefs. They recognize the near-term and long-term effects that management's actions and attitudes can have on productivity, morals and organizational culture.

#### CRP10. Plan education and career paths aligned to personal goals.

Career-ready individuals take personal ownership of their own education and career goals, and they regularly act on a plan to attain these goals. They understand their own career interests, preferences, goals, and requirements. They have perspective regarding the pathways available to them and the time, effort, experience and other requirements to pursue each, including a path of entrepreneurship. They recognize the value of each step in the education and experiential process, and they recognize that nearly all career paths require ongoing education and experience. They seek counselors, mentors, and other experts to assist in the planning and execution of career and personal goals.

#### CRP11. Use technology to enhance productivity.

Career-ready individuals find and maximize the productive value of existing and new technology to accomplish workplace tasks and solve workplace problems. They are flexible and adaptive in acquiring new technology. They are proficient with ubiquitous technology applications. They understand the inherent risks-personal and organizational-of technology applications, and they take actions to prevent or mitigate these risks.

#### CRP12. Work productively in teams while using cultural global competence.

Career-ready individuals positively contribute to every team, whether formal or informal. They apply an awareness of cultural difference to avoid barriers to productive and positive interaction. They find ways to increase the engagement and contribution of all team members. They plan and facilitate effective team meetings.



# **Educational Technology**

#### **Standards**

8.1.8.A.5, 8.1.8.A.4, 8.1.8.E.1, 8.2.8.B.1, 8.1.8.D.1

#### > Technology Operations and Concepts

• Select and use appropriate tools and digital resources to accomplish a variety of tasks and to solve problems.

#### > Technology Operations and Concepts

• Generate a spreadsheet to calculate, graph, and present information.

#### > Research and Information Literacy

• Gather and analyze findings using <u>data collection technology</u> to produce a possible solution for a content-related or real-world problem.

#### > Design: Critical Thinking, Problem Solving

• Design and create a product that addresses a real-world problem using the design process and working with specific criteria and constraints.

#### > Digital Citizenship

• Model appropriate online behaviors related to cyber safety, cyber bullying, cyber security, and cyber ethics.



### 21st Century Life & Career Skills

#### **Standards:**

9.1.8.A.1, 9.3.8.B.3, 9.3.8.B.17, 9.3.8.B.12, 9.1.8.A.2

#### > Critical Thinking and Problem Solving

• Develop strategies to reinforce positive attitudes and productive behaviors that impact critical thinking and problem-solving skills.

#### > Career Exploration

• Evaluate personal abilities, interests, and motivations and discuss how they might influence job and career selection.

#### > Career Exploration

• Recognize that an individual's online behavior (e.g., social networking, photo exchanges, video postings) may impact opportunities for employment or advancement.

#### > Career Exploration

• Explain how personal behavior, dress, attitudes, and other choices can impact the success or failure of a job applicant.

#### > Critical Thinking and Problem Solving

• Implement problem-solving strategies to solve a problem in school or the community.

#### > Critical Thinking and Problem Solving

• Relate academic achievement, as represented by high school diplomas, college degrees, and industry credentials, to employability and to potential level of income.

Link: http://www.nj.gov/education/aps/cccs/career/



Differentiated Instruction						
Accommodate Based on Students Individual Needs: Strategies						
<u>Time/General</u>	Processing	<u>Comprehension</u>	<u>Recall</u>			
• Extra time for assigned tasks	Extra Response time	Precise step-by-step directions	Teacher-made checklist			
Adjust length of assignment	Have students verbalize steps	Short manageable tasks	Use visual graphic organizers			
<ul> <li>Timeline with due dates for reports and projects</li> <li>Communication system between home and school</li> <li>Provide lecture notes/outline</li> </ul>	<ul> <li>Repeat, clarify or reword directions</li> <li>Mini-breaks between tasks</li> <li>Provide a warning for transitions</li> <li>Partnering</li> </ul>	<ul> <li>Brief and concrete directions</li> <li>Provide immediate feedback</li> <li>Small group instruction</li> <li>Emphasize multi-sensory learning</li> </ul>	<ul> <li>Reference resources to promote independence</li> <li>Visual and verbal reminders</li> <li>Graphic organizers</li> </ul>			
Assistive Technology	Tests/Quizzes/Grading	Behavior/Attention	<u>Organization</u>			
Computer/whiteboard	Extended time	Consistent daily structured	Individual daily planner			
Tape recorder	Study guides	routine  • Simple and alear aleggroom	Display a written agenda			
Video-Tape	Shortened tests	Simple and clear classroom rules	Note-taking assistance			
	Read directions aloud	Frequent feedback	Color code materials			



# **Enrichment**

Accommodate Based on Students individual Needs: Strategies

- Evaluate Vocabulary
- Learning Centers
- Individual Response Board
- Open-ended activities
- Community/Subject expert mentorships



#### **Assessments**

#### Suggested Formative/Summative Classroom Assessments

Describe Learning Vertically

**Identify Key Building Blocks** 

Make Connections (between and among key building blocks)

Short/Extended Constructed Response Items

Multiple-Choice Items (where multiple answer choices may be correct)

Drag and Drop Items

Use of Equation Editor

Quizzes

Journal Entries/Reflections/Quick-Writes

Accountable talk

**Projects** 

Portfolio

Observation

Graphic Organizers/ Concept Mapping

**Presentations** 

**Role Playing** 

Teacher-Student and Student-Student Conferencing

Homework



# **Interdisciplinary Connections**

#### Students will be expected to:

- Explore interdisciplinary contexts and solve a variety of real-life problems from Physical Sciences, Social Sciences, Medical Sciences, Business, and Technology.
- Recognize the underlying mathematical concepts while analyzing different contextual information.
- Make connections between concepts.
- Communicate mathematically while discussing scenarios from various disciplines.
- Demonstrate their computational and procedural skills while providing explanations and interpretations of solutions to problems from various disciplines.



The following examples from The College Board (<a href="https://collegereadiness.collegeboard.org/sample-questions/math/calculator-permitted/1">https://collegereadiness.collegeboard.org/sample-questions/math/calculator-permitted/1</a>) indicate a wide range of real-life scenarios students may expect to see on the redesigned SAT (2016).

#### **Example 1**: Question Difficulty: EASY

**Objective:** Students must identify the correct mathematical notation for an inequality to represent a real-world situation.

The recommended daily calcium intake for a 20-year-old is 1,000 milligrams (mg). One cup of milk contains 299 mg of calcium and one cup of juice contains 261 mg of calcium. Which of the following inequalities represents the possible number of cups of milk *m* and cups of juice *j* a 20-year-old could drink in a day to meet or exceed the recommended daily calcium intake from these drinks alone?

Answer: A

#### Select an Answer

**A.** 
$$299m + 261j \ge 1000$$

**B.** 
$$299m + 261j > 1000$$

**C.** 
$$299/m + 261/j \ge 1000$$

**D.** 
$$299/m + 261/j \ge 1000$$



#### **Example 2: Question Difficulty: MEDIUM**

**Objective:** Students must construct a linear equation to represent a real-world situation.

When a scientist dives in salt water to a depth of 9 feet below the surface, the pressure due to the atmosphere and surrounding water is 18.7 pounds per square inch. As the scientist descends, the pressure increases linearly. At a depth of 14 feet, the pressure is 20.9 pounds per square inch. If the pressure increases at a constant rate as the scientist's depth below the surface increases, which of the following linear models best describes the pressure p in pounds per square inch at a depth of d feet below the surface?

Answer: B

#### Select an Answer

A) 
$$p = 0.44d + 0.77$$

B) 
$$p = 0.44d + 14.74$$

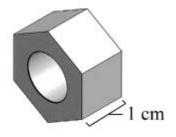
C) 
$$p = 2.2d - 1.1$$

D) 
$$p = 2.2d - 9.9$$



#### **Example 3: Question Difficulty: MEDIUM**

**Objective:** Students must make connections between physical concepts such as mass and density and essential geometric ideas such as the Pythagorean Theorem and volume formulas.



The figure above shows a metal hex nut with two regular hexagonal faces and a thickness of 1 cm. The length of each side of a hexagonal face is 2 cm. A hole with a diameter of 2 cm is drilled through the nut. The density of the metal is 7.9 grams per cubic cm. What is the mass of this nut, to the nearest gram? (Density is mass divided by volume.)

Answer: 57 grams



	Unit	Topics:
Grade: 9-12	1	Number and Quantity and Geometry
	Common Core State Standards (CCSS)	
		1
	Unit 1	
	Number and Quantity	
	CCSS.Math.Content.HSN-RN	
	CCSS.Math.Content.HSN-Q	
	CCSS.Math.Content.HSN-VM	
	Geometry	
	CCSS.Math.Content.HSG-SRT	
	CCSS.Math.Content.HSG-C	
	CCSS.Math.Content.HSG-GPE	
	CCSS.Math.Content.HSG-GMD	
	CCSS.Math.Content.HSG-MG	



NJDOE Student Learning Objective	Essential Questions	Skills, Strategies & Concepts	Sample Activities	Resources
Use properties of integer exponents to explain and convert between expressions involving radicals	How to write equivalent expressions involving integer and rational exponents?	Applying the properties of exponents working with arithmetic operations on exponents	Use equations such as, $(x^2)^{(1/3)} = 9$ or $(x-3)^{(1/3)} = 8^{(2/3)}$ to rewrite their equivalent forms and solve for $x$ .	Use the following resources provided by The College Board for all Student Learning Objectives:
and rational exponents, using				1. Published SAT book of The College Board
correct notation. For example, we define $5^{1/3}$ to be the cube root of 5 because we want $(5^{1/3})^3 = 5^{(1/3)3}$ to				2. Visit their official sites <a href="https://professionals.college">https://professionals.college</a> <a href="board.com/k-12/prepare/srp/free">board.com/k-12/prepare/srp/free</a>
hold, so $(5^{1/3})^3$ must equal 5. (N.RN.1, N.RN.2)				The Official SAT Question of the Day <sup>TM</sup>
2. Prove (understand) that	How to show similarity among different circles?	Writing and using proportionality statements.	Construct circles of different radii using a compass.	Official SAT Practice Test
all circles are similar (and apply this property to solve problems) (G.C.1)		Using ratio-proportions to compute the unknown quantity.	Use ratio-proportions of the radius and circumference of two different circles to establish similarity.  Analyze the relationship	https://sat.collegeboard.org/ practice/sat-skills-insight



NJDOE Student Learning Objective	<b>Essential Questions</b>	Skills, Strategies & Concepts	Sample Activities	Resources
			between the circumference and radius of the circles by graphing those values.	https://sat.collegeboard.org/ SAT/public/pdf/getting- ready-for-the-sat.pdf
			Show that the ratio of the circumference to the diameter of the circles is the constant of proportionality.	https://sat.collegeboard.org/ practice (includes free practice tests
Solve multi-step problems that can be represented algebraically with accurate and appropriately defined units, scales, and models (such as graphs, tables, and data displays).  (N.Q.1, N.Q.2, N.Q.3)	How to convert units from one system to another to solve word problems?  How to apply scales while representing practical scenarios?	Converting units Using scale models Working with ratios- proportions	Apply scale models and unit conversion while solving problems represented in graphs, charts, or matrices.	from Khan Academy)
4. Prove the slope criteria for parallel and perpendicular lines and	What is the relationship between the slopes of parallel and perpendicular lines?	Understanding the relation between the slopes of parallel and perpendicular lines.	Analyze any patterns between the calculated values of slopes of parallel and perpendicular lines.	
use them to solve geometric problems (e.g. find the equation of a line parallel or perpendicular to a given	How to find the equation of a line given the equations of its parallel and perpendicular lines?	Writing the equation of a line given the equations of its parallel and perpendicular lines.	Use the format $(y - y_I) = m(x - x_{1})$ to write the equation of a parallel and perpendicular lines using the appropriate	

NJDOE Student Learning Objective	Essential Questions	Skills, Strategies & Concepts	Sample Activities	Resources
line that passes through a given point.) (G.GPE.5)			slope	
5. Use coordinates to compute perimeters of polygons and areas of triangles and rectangles, e.g., using the distance formula. (G.GPE.7)	How do locations of the vertices of polygons help compute their perimeters?  How do locations of the vertices of triangles and rectangles help compute their areas?  How do the same x- or y-values of two points help find the distance between the points without using the distance formula?	Computing distance between two pints using the distance formula  Computing distance between two pints without using the distance formula when the x-or y-values of the two points are equal  Computing the areas of a triangles and rectangles and perimeters of other polygons when the coordinates of their vertices are given.	Use graph paper to compute the distance between two points with the same <i>x</i> - or <i>y</i> -values with or without using the distance formula.  Use graph paper to compute the distance between two points with different <i>x</i> - or <i>y</i> -values using the Pythagorean Theorem.  Discover the relation between the above two methods.	
6. Use congruence and similarity criteria for triangles to solve problems and to prove relationships in	How to apply the properties of similarity and congruence of triangles to solve problems?	Understanding congruence and similarity of geometric figures	Analyze a variety of problems involving similarity and congruence of triangles.  Differentiate between the properties of similarity and	

NJDOE Student Learning Objective	Essential Questions	Skills, Strategies & Concepts	Sample Activities	Resources
geometric figures. (G.SRT.5)			congruence of triangles.	
7. Use the properties of similarity transformations to establish the AA criterion for two triangles to be similar. (G.SRT.3)	How to prove that two triangles are similar?	Understanding the properties of rigid transformation for angles  Working with ratio-proportions and similarity of two triangles	Construct two triangles with two pairs of congruent angels.  Establish using ratio-proportions that their sides are proportional.	
8. Use trigonometric ratios and the Pythagorean Theorem to solve right triangles in applied problems (G.SRT.8)	How to choose a trigonometric ratio for solving a word problem involving a right triangle?	Understanding the trigonometric ratios Applying trigonometric ratios to solve word problems involving right triangles	Write a trigonometric ratio as a proportion, e.g., $\frac{\sin x}{1} = \frac{Opposite}{Hypotenuse} \text{ and } $ determine what is given out of these quantities in a problem. Depending on what is given, an appropriate ratio may be selected to solve for the unknown. (remember, out of three quantities in a trigonometric ratio, two must be known in order to solve for the third)	

NJDOE Student Learning Objective	<b>Essential Questions</b>	Skills, Strategies & Concepts	Sample Activities	Resources
9. Solve problems using volume formulas for cylinders, pyramids, cones, and spheres. (G. GMD.3)	How to find the volume of regular geometric solids?	Working with arithmetic operations, including exponents	Solve a variety of word problems involving the computation of volume of regular geometric solids, e.g., volume of a community water tank of cylindrical or conical shape, volume of a soccer ball or a Jupiter's moon of spherical shape, volume of an Egyptian pyramid etc.	
Use geometric shapes, their measures, and their properties to describe objects (e.g., modeling a tree trunk or a human torso as a cylinder). (G.MG.1)	How to model practical shapes using geometric figures?	Understanding dimensions of geometric figures, e.g., 0-D, 1-D, 2-D, and 3-D figures Representing practical shapes as geometric figures	Represent a tennis ball as a 0-D object when its dimensions are not relevant, but its height from the ground is relevant in a problem.  Represent the same tennis ball as a 2-D object (a circle) when its radius or circumference is relevant in another problem.  Represent the same tennis ball as a 3-D object (sphere) when its volume is relevant in yet another problem.	



NJDOE Student Learning Objective	<b>Essential Questions</b>	Skills, Strategies & Concepts	Sample Activities	Resources
Use density concepts in modeling situations based on area and volume. (e.g., persons per square mile, BTUs per cubic foot). (G.MG.2)	How to compute density under different practical situations?	Understanding density as a quotient of two quantities, weight and volume.  Computing density using arithmetic operations and proper units.	Given the weight and volume of a material, calculate its density.  Given the population of a bacteria and area or volume of its container, calculate the density of bacteria per square unit or per cubic unit of the container, respectively.	

Unit Vocabulary				
Absolute Value	Denominator	• FOIL	Least common Multiple	
Acute Angle	• Depth	• Fraction	• Leg	
Adjacent Angle	• Density	Greater than	• Less than	
• Arc	Diameter	• Greater than or equal to	Less than or equal to	
• Area	• Dilation	<ul> <li>Greatest Common Factor</li> </ul>	• Line	
Arithmetic mean	• Distance	Height	• Mass	
<ul> <li>Average</li> </ul>	Dividend	<ul> <li>Hypotenuse</li> </ul>	Maximum	
Central Angle	• Divisor	• Image	• Mean	
• Chord	• Endpoints	• In terms of	Median	
• Circle	Equilateral Triangle	• Inequality	Midpoint	
Circumference	Equivalent Fractions	• Inscribe	Minimum	
• Circumscribe	• Equivalent ratios	<ul> <li>Inscribed Angle</li> </ul>	Mode	
Coefficient	• Estimate	• Integer	Multiple	
Complementary Angle	• Even Numbers	• Interval	Multiplicative Inverse	
Complementary Angles	• Exceed	<ul> <li>Inverse Variation</li> </ul>	Positive	
• Congruent	Exponent	<ul> <li>Irrational Number</li> </ul>	Prime Numbers	
Consecutive Even Numbers	• Expression	• Perimeter	• Prism	
• Consecutive Multiples of 3	Exterior Angle	<ul> <li>Perpendicular Bisector</li> </ul>	Pythagorean Theorem	
Consecutive Odd Numbers	Odd Numbers	<ul> <li>Perpendicular Lines</li> </ul>	• Quotient	
Natural Numbers	Opposite Angles	• Subset	• Range	
• Negative	Origin	• Supplementary Angle	Rational	
Numerator	Parallel	<ul> <li>Vertical Angles</li> </ul>	Rational Number	
Obtuse Angle	• Factor	• Vertical Lines	Real Numbers	
• Cube	Factor Form	<ul> <li>Volume of regular solids</li> </ul>	Regular Polygons	
• Cubic	Factorial	• Isolate	Remainder	
• Data	Fewer than	• Isosceles Triangle	• Set	
			Similarity	



#### **RUBRICS**

#### The Redesigned SAT (2016) Scoring Guidelines and Rubrics

According to The College Board (<a href="https://www.collegeboard.org/delivering-opportunity/sat/higher-ed/scores">https://www.collegeboard.org/delivering-opportunity/sat/higher-ed/scores</a>), the redesigned SAT will have a scale score of 400 points to 1600 points equally distributed over two main sections, (1) Evidence-Based Reading and Writing and (2)Mathematics.

**NOTE:** Every correct response will receive a credit, but there will be <u>no deductions</u> for wrong or blank responses.

The Math part will have a total of 57 problems with the following break-up.

Section	Number of Questions	Time Allowed	Calculator Allowed
1	37	55 minutes	YES
2	20	25 minutes	NO
Total	57 Questions	80 minutes	



#### **RUBRICS**

Type of Question	Number of Questions	Points Worth	Total Points
Multiple-Choice	45	1 point	45
Grid-in	11	1 point	11
Grid-in-Extended Response	1	4 points	4
Total	57 Questions		60 points