Learn all about the SAT® inside.
Connect your College Board results and get personalized practice at satpractice.org.
About College Board

College Board is a mission-driven not-for-profit organization that connects students to college success and opportunity. Founded in 1900, College Board was created to expand access to higher education. Today, the membership association is made up of over 6,000 of the world’s leading educational institutions and is dedicated to promoting excellence and equity in education. Each year, College Board helps more than seven million students prepare for a successful transition to college through programs and services in college readiness and college success—including the SAT® and the Advanced Placement Program®. The organization also serves the education community through research and advocacy on behalf of students, educators, and schools. For further information, visit collegeboard.org.

SAT Customer Service

You can reach us from 8 a.m. to 9 p.m. Eastern Time (Monday to Friday 9 a.m. to 7 p.m. after the June test through August 18).

PHONE: 866-756-7346
INTERNATIONAL: +1-212-713-7789
EMAIL: sat@info.collegeboard.org
MAIL: College Board SAT Program
      P.O. Box 025505
      Miami, FL 33102

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Contents

5 Using This Guide
5 What the SAT Measures
5 How the SAT Is Organized
6 How the SAT Is Scored
7 Before Test Day
7 Create a College Board Account
7 If You Need Testing Accommodations
7 The Optional Student Data Questionnaire
7 Sending Scores
8 Connect to Opportunities in Higher Education
8 Student Search Service
9 Practice for the SAT
10 On Test Day
10 Items to Bring for Testing
10 Test Security and Fairness Policies
11 Phones and Electronic Devices Policy
11 Taking the Test
12 Protecting Your Privacy: Use of Student Information
13 After Test Day
13 Test Fairness Review
13 Test Question Inquiries
13 Fee Waiver Benefits for Income-Eligible Students
13 Useful Resources
14 Evidence-Based Reading and Writing
14 Reading Test Overview
15 Sample Reading Test Materials
16 Reading Test Questions
23 Writing and Language Test Overview
24 Sample Writing and Language Test Materials
30 Math
30 Math Test Overview
30 Calculator Use
31 Answering Student-Produced Response Questions
31 Tips for the Math Test
32 Sample Math Test Materials
32 Math Test – No Calculator Questions
36 Math Test – Calculator Questions
42 The SAT Essay
42 SAT Essay Overview
42 Sample Essay Materials
50 The SAT Essay Scoring Guide
52 What You Need to Know About Taking the SAT
52 SAT Terms and Conditions
57 Makeup Testing
57 Verifying Your Scores
57 Score Reporting
58 Students Testing in California and New York State
59 Relationship of SAT Scores to Family Income
Taking the SAT is a great way to find out how ready you are for college and career. Just as important, taking the SAT connects you to College Board programs and services that can propel you toward the opportunities you’ve earned through your own hard work. We’ve created this guide to help you:

- Become familiar with the test so that you’re not surprised or confused on test day.
- Learn the test directions. The directions for answering the questions in this guide are the same as those on the actual test.
- Review the sample questions. The more familiar you are with the question formats, the more comfortable you’ll feel when you see similar questions on the actual test. In particular, be sure to practice writing answers to the student-produced response questions on the Math Test later in this guide. Find additional sample questions at sat.org.
- Understand how the tests are scored.
- Be aware of what you need to know about taking this test. Terms and conditions and other test security and fairness policies can be found after the sample questions.

### What the SAT Measures

The SAT is focused on the skills and knowledge at the heart of education. It measures:

- What you learn in high school.
- What you need to succeed in college and career training.

The same habits and choices that lead to success in school will help you get ready for the SAT. The best way to prepare for the test is to:

- Take challenging courses.
- Do your homework.
- Prepare for tests and quizzes.
- Ask and answer lots of questions.

### How the SAT Is Organized

The SAT has four tests, including—depending on the school—the SAT Essay. The three tests that everyone will take are the Reading Test, the Writing and Language Test, and the Math Test. The tests break down like this:

<table>
<thead>
<tr>
<th>Component</th>
<th>Time Allotted (min.)</th>
<th>Number of Questions/Tasks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reading</td>
<td>65</td>
<td>52</td>
</tr>
<tr>
<td>Writing and Language</td>
<td>35</td>
<td>44</td>
</tr>
<tr>
<td>Math</td>
<td>80</td>
<td>58</td>
</tr>
<tr>
<td>Essay (if taken)</td>
<td>50</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>180 (230 with Essay)</td>
<td>154 (155 with Essay)</td>
</tr>
</tbody>
</table>
How the SAT Is Scored

All multiple-choice questions are scored the same way: one point for each correct answer and zero points for incorrect answers. No points are subtracted for incorrect answers or answers left blank. Hard questions count the same as easier questions. You won’t lose any points for guessing, so try to answer every question. The table below shows you all the scores you’ll receive on the SAT.

<table>
<thead>
<tr>
<th>SAT Score Reported</th>
<th>Details</th>
<th>Score Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Score</td>
<td>Sum of the two section scores</td>
<td>400–1600</td>
</tr>
<tr>
<td>Section Scores (2)</td>
<td><strong>Evidence-Based Reading and Writing</strong></td>
<td>200–800</td>
</tr>
<tr>
<td></td>
<td><strong>Math</strong></td>
<td></td>
</tr>
<tr>
<td>Test Scores (3)</td>
<td><strong>Reading</strong></td>
<td>10–40</td>
</tr>
<tr>
<td></td>
<td><strong>Writing and Language</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Math</strong></td>
<td></td>
</tr>
<tr>
<td>Essay Scores (3) (if the SAT Essay is taken)</td>
<td><strong>Reading</strong></td>
<td>2–8</td>
</tr>
<tr>
<td></td>
<td><strong>Analysis</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Writing</strong></td>
<td></td>
</tr>
<tr>
<td>Cross-Test Scores (2)</td>
<td><strong>Analysis in History/Social Studies</strong></td>
<td>10–40</td>
</tr>
<tr>
<td></td>
<td><strong>Analysis in Science</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Based on select questions in the Reading Test, Writing and Language Test, and Math Test. These scores show how well you use your skills to analyze texts and solve problems in these subject areas.</td>
<td></td>
</tr>
<tr>
<td>Subscores (7)</td>
<td><strong>Reading and Writing and Language: Command of Evidence and Words in Context</strong></td>
<td>1–15</td>
</tr>
<tr>
<td></td>
<td><strong>Writing and Language: Expression of Ideas and Standard English Conventions</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Math: Heart of Algebra, Problem Solving and Data Analysis, and Passport to Advanced Math</strong></td>
<td></td>
</tr>
</tbody>
</table>
Before Test Day

Create a College Board Account

Once you create a free College Board account, you can:
- Access your SAT scores when they become available.
- Order additional score sends.
- Sign up for free, personalized practice through Official SAT Practice and Khan Academy®.

Just visit collegeboard.org and click “Sign Up” to get started.

If You Need Testing Accommodations

If you have a disability that requires accommodations such as braille, extra breaks, or permission to test blood sugar, be sure to have your school request College Board approval well in advance of the test date you need the accommodations for. Requests for accommodations are handled by the Services for Students with Disabilities (SSD) office.

IMPORTANT: Supports such as glossaries, translated test directions, and extended time are available for English learners. The process for English learner (EL) supports differs from requesting accommodations for disabilities. If you need EL support, work with your school to ensure it will be there on test day.

Applying for Accommodations

- Work with your school’s SSD coordinator or counselor for accommodations. Your SSD coordinator can help determine what accommodations are best for you and, if your state requires it, submit a request online.
- If you move to a new school after you’ve been approved for accommodations, your new school needs to confirm your continued eligibility. Print your SSD eligibility letter from your student account to give to your new school.
- If you are approved for extended time for specific subject areas only (math, for example), you’ll only get those accommodations on the relevant sections or tests.
- Talk to your SSD coordinator before test day to confirm what accommodations you are approved for and any additional information you need for testing.
- Bring your SSD eligibility letter with you on test day in case there are any questions.

The Optional Student Data Questionnaire

When you take the SAT, you’ll have the opportunity to answer questions about yourself, your educational experience, and your possible plans for after you graduate high school. While you don’t have to answer these questions, we strongly recommend that you do. However, if your parent or guardian has told you that you shouldn’t provide any optional or voluntary information, you shouldn’t do so.

Your responses give your school counselors and college admission officers information they can use to help you plan your future. The more information you provide, the more they can help you.

Your responses, when combined with those of all other students taking the SAT, contribute to an understanding of the academic preparation, extra- and cocurricular involvement, and post-high-school plans of your graduating class, which can help colleges and universities deliver programs and opportunities to serve you and your classmates.

Sending Scores

You’ll also have the opportunity when you take the SAT to choose up to four colleges, universities, or scholarship programs to receive your scores for free on your answer sheet. (Sending scores to additional colleges, universities, or scholarship programs can be requested for a fee online.)

The report you receive and the reports received by colleges and your high school contain total and section scores that have been converted to College Board’s 400–1600-point scale for all SAT Program tests. (See How the SAT Is Scored for more information.)

Score Reporting

The online score report gives you the meaning behind your numbers by providing a summary of how you did on each section. You can access your online score report through your College Board account. (If you can’t access your online score report, your school can print a copy for you.) The SAT online score report contains:
- Percentiles that let you see how your results compare with those of other students like you.
- A search tool for career and college majors, with suggestions based on information you provide in your profile.
- The prompt for the SAT Essay (if you took it) and a scanned copy of your response.
Score Choice
If you take the SAT more than once, or if you take more than one SAT Subject Test, you can have the option of Score Choice™. With Score Choice, you can put your best foot forward by choosing which scores you send to colleges. Choose by test date for the SAT and by individual test for SAT Subject Tests™—but keep in mind that some colleges and scholarship programs require you to send all your scores.

This online service is optional. If you don’t use Score Choice, we’ll send all your SAT and SAT Subject Tests scores from your most recent six administrations. However, if you want only your highest scores to be seen, you should select Score Choice. Each school or program has its own deadlines and policies for how scores are used. Information is listed on the score-sending site for each participating institution, but check with the individual school or scholarship program to make sure you’re following its guidelines.

Connect to Opportunities in Higher Education
Each year millions of students take the SAT, and thousands of high school counselors and postsecondary admission officers worldwide use their scores to guide decisions in the college application process. The test that you’ll take on test day is a challenging yet appropriate and fair assessment of what you know and can do. The questions you’ll tackle focus on the knowledge and skills that the best available evidence indicates are essential for college and career readiness and success.

We’re committed to providing opportunities to help you reach your goals for college and career. Students who are the first in their families to consider attending college, who come from low-income families, or whose ethnicities are underrepresented in colleges may feel that college isn’t for them. College Board’s Access to Opportunity™ (A2O™) efforts are designed to identify and break down barriers that prevent students from applying to and enrolling in colleges that are their best academic, social, and financial fit. Our mission is to help all students recognize and make the most of the opportunities they’ve earned. See Useful Resources for more information about ways to achieve your dreams.

Student Search Service
Nearly 1,900 eligible colleges, universities, scholarships, and other educational programs use our Student Search Service® to look for students who match a range of factors—such as the area where you live or go to school, the interests you pursue, and what you plan to study in college. Here are some key facts about the service:

- You can join for free and directly hear from a diverse group of eligible colleges, universities, scholarships, and other educational programs.
- When you take a College Board test, you can opt in so eligible colleges, universities, scholarships, and other educational programs can send you information. You’ll be asked to provide information about yourself when filling out the answer sheet. (See The Optional Student Data Questionnaire for more information.) You may also provide additional information on College Board’s college planning website, BigFuture™, at bigfuture.org.
- Only eligible colleges, universities, scholarships, and other educational programs can participate. They most often search on expected graduation date, cumulative grade point average (GPA), and intended college major.
- We never sell or share your test scores, grades, disability status, or telephone numbers.
- We don’t allow any commercial advertising.

How Student Search Service Works
Once you opt in, you can expect to receive emails and postal mail from eligible colleges, universities, scholarships, and other educational programs in your city, state, or country, or from around the world. All of the colleges and universities that you’ll hear from welcome students just like you on their campuses. They may send you:

- Information on financial aid, scholarships, or other ways to make college or university more affordable.
- Details on campus life and student services.
- Overviews of majors, courses, and degree options.

Being contacted by a college or university doesn’t mean you’ve been admitted. You must submit an application to be considered for admission. The eligible colleges, universities, scholarships, and other educational programs that participate want to find students who will succeed and thrive on their campus and in classes, programs, scholarships, and special activities. Student Search Service is simply a way for eligible colleges and universities to reach prospective students to let them know about the opportunities they offer. For more information about Student Search Service, visit our site at studentsearchservice.org.
If at any time you change your mind and want to stop participating, please visit studentsearch.collegeboard.org/opt-out or contact us at SearchCustomerService@collegeboard.org or 866-825-8051. Please note that any participating eligible colleges, universities, scholarships, or other educational programs that have already received your name and other data may continue to send you information, but your information will not be included going forward from the time you elect to opt out.

Practice for the SAT
College Board has partnered with Khan Academy to give you free, personalized practice you can access anytime, anywhere.

Don’t miss out on these practice tools:
- Personalized recommendations for practice on the skills you need to attend to most.
- Thousands of questions, reviewed and approved by the people who develop the SAT.
- Video lessons that explain problems step-by-step.
- Full-length practice tests.
- Practice tests in assistive technology–compatible (ATC) and MP3 audio formats for students who need them.

Make practice part of your routine—anyplace, anytime. Answer a question a day on the Daily Practice for the New SAT app and get immediate feedback. The free app makes it easy to:
- Answer an exclusive, official Reading, Writing and Language, or Math question.
- Reveal a hint if you’re stuck.
- Read answer explanations and learn from your mistakes.
- Keep at it—daily practice can only sharpen your skills.

We offer other free and affordable resources to help you do your best. See sat.org/practice.

Instant Practice Test Scoring with Scan and Score
Take an official SAT practice test on paper to simulate test day. Then take a picture of your answer sheet and get an instant score.

Here’s how Scan and Score works:
1. Download and print one of the SAT practice tests found at sat.org/practice. (Your counseling office may also have Official SAT Practice Tests available in booklet form.) Be sure to follow the instructions, and use the official answer sheet to bubble in your answers.
2. After you’ve finished the practice test, get instant feedback and question-by-question results from your phone. Just open the free app Daily Practice for the New SAT. (Select Daily Practice App at sat.org/practice for more information.)
3. Keeping the app open, snap a picture of your answer sheet with your phone’s camera.

And there it is in seconds: your score. Scores are saved so you can track your progress.
On Test Day

Items to Bring for Testing

What to Bring

- Acceptable photo ID in case you need it (see sat.org/id for more information)
- Two No. 2 pencils with soft erasers
- An acceptable calculator for use on the Math Test – Calculator portion of the test (see Calculator Use on page 30)
- Earphones, only if you’re approved for assistive technology–compatible or MP3 audio accommodations and the school doesn’t provide earphones
- A list of 4 colleges/scholarships you would like to send your scores to

Nice to Have

- A watch (without an audible alarm or communication/recording capabilities; smartwatches may be collected before testing)
- A bag or backpack (which must be stored away during testing)
- Snacks and drinks (which must be under your desk during testing)
- Extra batteries and backup calculator

What Not to Bring

Unless you have been approved to use a specific device or aid (such as a blood-sugar-monitoring application, highlighter, or colored pen or pencil) as an accommodation, you should not bring any prohibited devices or aids into the testing room. Prohibited devices and aids include, but aren’t limited to:

- Cell phones, smartphones, or wearable technology (phones and wearable technology may be collected before the test and returned before dismissal)
- Audio players/recorders
- Tablets, laptops, notebooks, Bluetooth, or any other personal computing devices
- Separate timers of any type
- Cameras or any other photographic equipment
- Smartwatches and any other devices that can be used to record, transmit, receive, or play back audio, photographic, text, or video content
- Highlighters, colored pens/pencils, or mechanical pencils
- Dictionaries or other books
- Compasses, rulers, protractors, or cutting devices

- Pamphlets or papers of any kind, including notes and scratch paper
- Earplugs

IMPORTANT: Epinephrine auto-injectors (e.g., EpiPens) are permitted in the testing room without the need for accommodations. They must be placed in a clear bag and stored under your desk during testing. (For other medical devices, you may need to request an accommodation.)

Test Security and Fairness Policies

College Board’s Test Security and Fairness policies are designed to give every student a fair and equitable opportunity to demonstrate their skills and knowledge. They’re also designed to prevent anyone from gaining an unfair advantage on College Board tests. When you take the SAT, you acknowledge that you have read, understand, and will comply with our Test Security and Fairness policies as detailed here.

- You must present acceptable photo ID for admission if any school staff member asks you to.
- Allowing someone to impersonate you to take a College Board test, or engaging in impersonation to take a test for someone else, is strictly prohibited.
- Creating a disturbance or failing to follow instructions given by testing staff is prohibited.
- Sharing test questions or answers is prohibited at any time unless test content is released as part of a College Board service (such as the Question-and-Answer Service).
- Using phones and certain other electronic devices is prohibited in SAT test sites. Staff at your test site may collect devices such as cell phones and smartwatches before testing begins. If you are observed with such a device after collection occurs, you will be dismissed from testing and your scores will be canceled.
- You are prohibited from accessing secured test materials at any time before or after the test.
- If you exit the building before testing ends, your scores will be canceled.
- While you’re taking the test, do not allow anyone to see the test questions or your answers.
- The timing of each test section is strictly scheduled. You cannot skip ahead or go back to a previous test or test section in the test book or answer sheet while taking the SAT.
If your essay is not your original and individual work, your entire test score may be canceled.

You may not consult notes, other people, electronic devices, or any other resources during the test or during breaks.

Calculators may not be shared, and may only be on your desk during the parts of the SAT they’re approved for.

All students in your school must take the test at the same time. (Exceptions may be approved for students with disabilities.)

If you become ill or must leave during the test, or if for any other reason you do not want your test scored, you may ask the proctor or test coordinator for a Request to Cancel SAT Scores form before you leave the testing room. Your scores will still be provided to your state and district and may be accessible to your school, but they will not be sent by College Board to your chosen colleges or scholarship programs.

Members of your household or immediate family may not serve as SAT coordinators or any other role that has access to test books before test day, even at a different school, during the year that you take the test. (Immediate family includes one’s parents, siblings, children, grandparents, and spouse. This applies even if they do not reside in the same household.) A proctor may not administer the test to a member of their family or household.

You may not discuss the contents of the test with anyone, or share them through any means, including but not limited to emails, text messages, and the internet. (You may discuss your essay with teachers and others once score reports have been distributed.)

Violation of policies related to test security can result in denial of entry to or immediate dismissal from the test site, cancellation of your scores, or a limited or permanent ban from any College Board assessment, including the SAT, SAT Subject Tests, and the Advanced Placement® exams.

Please read the SAT Terms and Conditions at the back of this guide for important information about your rights and responsibilities as a test taker.

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**Phones and Electronic Devices Policy**

Devices that can be used to document or communicate test content or answers are not allowed at the test site. You may not bring electronics of any kind other than approved calculators with you on test day (an exception may apply for medically required devices). If, however, you forget to leave a device at home, you’ll be instructed to turn off all electronic devices and give cell phones and wearable technology to the staff in your testing room before the test begins. Be sure to turn off your phone and/or watch alarm, if you have one or both.

If your device makes noise (even if collected by the proctor), you will get a warning and be told to turn it off. However, if you are seen with it at any time, including during breaks, you will be dismissed immediately, your scores will be canceled, and the device may be kept and its contents inspected. College Board is not responsible for loss of or damage to personal items, including electronic devices, while you’re at the test site.

College Board regularly bolsters its security efforts in order to protect the integrity of the test and ensure a fair SAT administration. From time to time, College Board, Educational Testing Service (ETS), and its testing staff may employ enhanced security measures, such as the use of metal detecting wands to detect mobile phones and other electronic devices. Test takers should be prepared to undergo these security measures to ensure a fair testing environment.

The test administration staff are authorized to collect and hold phones and other prohibited electronic devices during the test administration, including break periods, or to deny admission to anyone in possession of a prohibited electronic device.

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**Taking the Test**

**Testing Guidelines**

- Plan ahead and bring equipment that’s in good working order. Testing staff may not have extra batteries or calculators.

- When marking answers:
  - Use a No. 2 pencil with a soft eraser on all parts of the answer sheet. Do not use a pen or mechanical pencil.
  - Make sure you fill in the entire bubble darkly and completely.
  - Erase any changes you make as completely as possible.

- On the SAT, there’s no penalty for guessing; you simply earn points for the questions you answer correctly. Try to give your best answer to every question—there’s no advantage to leaving them blank.

- Use a watch to time yourself—no separate timers or alarms are allowed, as they distract other test takers. Choose a watch that doesn’t have advanced communication or recording features (these are not allowed).
Don’t skip sections, and don’t leave your answer sheet blank. Doing this could result in score cancellation and/or delays.

If you are taking the SAT with Essay, and you decide not to write the essay, your official score report will include an SAT Essay score of zero. Also, if you leave the room before testing ends, your scores will be canceled.

Store any snacks or drinks you bring out of sight in a paper bag under your desk. You may only eat snacks during breaks. The testing staff will tell you where you can go to have your snack.

If you’re testing where the staff doesn’t know you, keep your ID with you at all times, especially if you leave the testing room.

**Calculator Rules**

You can only use certain kinds of calculators, as explained in the Math Test portion of this guide. Here are the other rules to bear in mind:

- You can’t share your calculator.
- If you use your calculator to share or exchange information during the test, or to remove test questions or answers from the test room, you’ll be dismissed and your scores canceled.
- If you’re using a calculator with a large (characters one inch high or more) or raised display that might be visible to other test takers, the proctor may move you to another seat.

**Protecting Your Privacy: Use of Student Information**

College Board recognizes the importance of protecting your privacy. See collegeboard.org/privacy-policy for complete data privacy information.

College Board collects personal information only to administer tests and deliver educational opportunities to students. College Board lets students and families decide how much additional information they disclose beyond the minimum information needed to connect students with college success, including taking the SAT.

On the answer sheet, we ask students for their name, school information, student ID number, grade level, gender, and date of birth. We may also ask for other information, including address, email address, and mobile phone number. Sometimes, schools, districts, or states will give us students’ personal information to register the students for College Board tests.

Schools may share students’ names, addresses, dates of birth, and gender, and in certain circumstances other information about students to help College Board determine if they qualify for fee waivers. Students provide any remaining personal information themselves.

We only share student information for educational purposes (or under court order) as follows:

- We share scores with you, your school, and, if applicable, your district and/or state to help measure educational progress and support a student’s path to college. (Homeschooled students’ scores won’t be shared with the school that administers the test.)
- If students request it, we use their information to send customized college planning information.
- We use student information to provide SAT college application fee waivers for income-eligible students.
- We share a limited amount of personal data with our partners for test administration support, customer support, and to support scoring and reporting activities.
- On our website, we use student information to customize and personalize the content users see, such as important reminders about SAT test dates and college-planning milestones.
- We share de-identified student information with researchers so they can study it for College Board programs and services that help solve education issues.
- If there’s an investigation involving validity of a student’s test scores, a photo of the student may be sent to institutions that received the scores. Any college granted access to the photo must certify that it has admitted the student.
- Students’ use of Khan Academy practice resources will be governed by the Terms and Conditions on the Khan Academy website.

See more Privacy Policies later in this guide.

**Telemarketing Scams**

We sometimes get reports of phone scams when callers posing as employees of College Board try to sell test preparation products or request sensitive, personally identifying information, such as credit card and Social Security numbers. College Board does not make unsolicited phone calls or send emails to students or families requesting this type of information. This type of activity, known as telemarketing fraud, is a crime.
Test Fairness Review

All new SAT test questions and complete new editions of the tests are reviewed by external, independent educators from throughout the United States. These reviews help ensure that the questions are unambiguous and relevant and that the language used is not offensive to or inappropriate for any particular group of students based on race/ethnicity or gender. Assessment staff ensure that the test as a whole includes references to men and women as well as to individuals from varied racial, ethnic, and cultural backgrounds. Statistical procedures are used to identify questions that are harder for a group of students to answer correctly than would be expected from their performance on other questions in the test; these questions are excluded from appearing on tests.

Fee Waiver Benefits for Income-Eligible Students

College Board offers a number of fee waiver benefits to income-eligible students who take the SAT. Eligible students can take the SAT and the SAT Subject Tests on a weekend for free, and get free feedback reports, waived application fees for participating colleges, and unlimited score reports to send to colleges. Eligible students may also apply online for nonfederal financial aid from colleges, universities, and scholarships for free using CSS/Financial Aid PROFILE®. Talk to your counselor to determine if you’re eligible, and visit sat.org/feewaivers for more information.

Useful Resources

We offer resources to help you find the best college and career for you, including:

**BigFuture**—Our website helps you plan for college and find the college that’s best for you. Visit bigfuture.collegeboard.org.

**Roadmap to Careers**—Want to see how your interests can connect to careers in your future? Try this great online experience powered by our partnership with Roadtrip Nation. Visit collegeboard.roadtripnation.com.

**IMPORTANT:** Don’t forget the Free Application for Federal Student Aid (FAFSA)—the form you’ll need to qualify for most financial aid opportunities—can be filed beginning October 1. You should complete your FAFSA as early as possible.

Test Question Inquiries

If you find what you consider to be an error or an ambiguity in a test question, tell the test coordinator immediately after the test. You may also write to:

Assessment Design and Development
College Board
250 Vesey Street
New York, NY 10281

Or send an email to satquestion@collegeboard.org.

In your inquiry, provide your name and mailing address, the date you took the SAT, the name and address of the school where you took the test, the test section, the test question (as well as you can remember), and an explanation of your concern about the question.

The SAT Program will send you a written response after your inquiry has been reviewed thoroughly by subject-matter specialists.

**IMPORTANT:** We will not respond via email, so be sure to include your full name and mailing address.
Evidence-Based Reading and Writing

The Evidence-Based Reading and Writing section is composed of two tests that assess different but related skills and knowledge. The Reading Test gives you a chance to show how well you understand what you read. The Writing and Language Test asks you to revise and edit text.

Reading Test Overview
- Total questions: 52 passage-based reading questions with multiple-choice responses.
- Time allotted: 65 minutes.
- Calculators may not be used or be on your desk.
- The questions often include references to direct you to relevant part(s) of the passage(s).

What the Reading Test Is Like
When you take the Reading Test, you’ll read passages and interpret informational graphics. Then you’ll use what you’ve read to answer questions. Some questions ask you to locate a piece of information or an idea stated directly. But you’ll also need to understand what the author’s words or a graphic’s data imply.

What You’ll Read
To succeed in college and career, you’ll need to apply reading skills in all sorts of subjects. You’ll also need those skills to do well on the Reading Test.

Reading Test passages range in length from about 500 to 750 words and vary in complexity. The Reading Test includes:
- One passage from a classic or contemporary work of U.S. or world literature.
- One passage or a pair of passages from either a U.S. founding document (such as an essay by James Madison) or a text in the Great Global Conversation (such as a speech by Nelson Mandela).
- One passage on a social science topic from a field such as economics, psychology, or sociology.
- Two science passages (or one passage and one passage pair) that examine foundational concepts or recent developments in Earth science, biology, chemistry, or physics.
- Two passages accompanied by one or more informational graphics.

What the Reading Test Measures
The Reading Test measures skills and knowledge you’ll need to apply when reading in college and workforce training programs. The test will ask you to find and interpret information and ideas, analyze how texts are put together and why they’re written the way they are, work with data from informational graphics, and make connections between paired passages.

You’ll be asked questions that require you to draw on the reading skills and knowledge needed most to succeed in the subjects the passages are drawn from. For instance, you might read about an experiment and then see questions that ask you to examine hypotheses, interpret data, or consider implications.

Answers are based only on the content stated in or implied by the passages and in any supplementary material, such as tables and graphs.

Command of Evidence
Some questions ask you to:
- Find evidence in a passage (or pair of passages) that best supports the answer to a previous question or serves as the basis for a reasonable conclusion.
- Identify how authors use (or fail to use) evidence to support their claims.
- Locate or interpret data in an informational graphic, or understand a relationship between a graphic and the passage it’s paired with.

Words in Context
Some questions focus on important, widely used words and phrases that you’ll find in texts in many different subjects. The words and phrases are ones that you’ll use in college and the workplace long after test day.

The Reading Test focuses on your ability to:
- Figure out the meaning of words or phrases in context.
- Decide how an author’s word choice shapes meaning, style, and tone.

Analysis in History/Social Studies and in Science
You’ll be asked to read and analyze passages about topics in history/social studies and in science.
Tips for the Reading Test
To answer each question, consider what the passage or passages say directly, and use careful reasoning to draw supportable inferences and conclusions from the passage(s). The best answer to each question is derived from what is stated or implied in the passage(s) rather than from prior knowledge of the topics covered. All of the questions are passage based.

- Reading carefully is the key to finding the best answer to each question. The information you need to answer each Reading Test question is always in the passage(s). Don’t be misled by an answer that looks correct but isn’t supported by the actual text of the passage(s).
- The questions don’t increase in difficulty from easy to hard. Instead, they are presented as logically as possible, with general questions about central ideas and themes, point of view, overall text structure, and the like coming early in the sequence. After that come more specific questions about such matters as facts, details, and words in context.
- Stay with a passage until you have answered as many questions as you can before you proceed to the next passage. Don’t jump from passage to passage.
- The questions often include references to help direct you to relevant part(s) of the passage(s). You may have to look elsewhere in the passage, however, in order to find the best answer to the question.

- In your test booklet, mark each question you skip so that you can easily go back to it later if you have time.
- Remember that all questions are worth one point regardless of the type or difficulty. You don’t lose points for guessing wrong, so you should try to answer each question as best you can.

Sample Reading Test Materials
Following are samples of the kinds of passages and questions that may appear on the Reading Test. For each set of sample materials:

- Read the passage(s) and any supplementary material carefully.
- Decide on the best answer to each question.
- Read the explanation for the best answer to each question and for the answer you chose (if the two are different).

On the actual test, each passage will be followed by 10 or 11 questions. The directions that follow match the directions on the actual test.
Reading Test Questions

Directions
Each passage or pair of passages below is followed by a number of questions. After reading each passage or pair, choose the best answer to each question based on what is stated or implied in the passage or passages and in any accompanying graphics (such as a table or graph).

Questions 1-3 are based on the following passages.
Passage 1 is adapted from Susan Millius, “A Different Kind of Smart.” ©2013 by Science News. Passage 2 is adapted from Bernd Heinrich, Mind of the Raven: Investigations and Adventures with Wolf-Birds. ©2007 by Bernd Heinrich.

Passage 1
In 1894, British psychologist C. Lloyd Morgan published what’s called Morgan’s canon, the principle that suggestions of humanlike mental processes behind an animal’s behavior should be rejected if a simpler explanation will do.

Still, people seem to maintain certain expectations, especially when it comes to birds and mammals. “We somehow want to prove they are as ‘smart’ as people,” zoologist Sara Shettleworth says. We want a bird that masters a vexing problem to be employing human-style insight.

New Caledonian crows face the high end of these expectations, as possibly the second-best toolmakers on the planet. Their tools are hooked sticks or strips made from spike-edged leaves, and they use them in the wild to winkle grubs out of crevices. Researcher Russell Gray first saw the process on a cold morning in a mountain forest in New Caledonia, an island chain east of Australia. Over the course of days, he and crow researcher Gavin Hunt had gotten wild crows used to finding meat tidbits in holes in a log. Once the birds were checking the log reliably, the researchers placed a spiky tropical pandanus plant beside the log and hid behind a blind.

A crow arrived. It hopped onto the pandanus plant, grabbed the spiked edge of one of the long straplike leaves and began a series of ripping motions. Instead of just tearing away one long strip, the bird ripped and nipped in a sequence to create a slanting stair-step edge on a leaf segment with a narrow point and a wide base. The process took only seconds. Then the bird dipped the narrow end of its leaf strip into a hole in the log, fished up the meat with the leaf-edge spikes, swallowed its prize and flew off.

“That was my ‘oh wow’ moment,” Gray says. After the crow had vanished, he picked up the tool the bird had left behind. “I had a go, and I couldn’t do it,” he recalls. Fishing the meat out was tricky. It turned out that Gray was moving the leaf shard too forcefully instead of gently stroking the spines against the treat.

The crow’s deft physical manipulation was what inspired Gray and Auckland colleague Alex Taylor to test other wild crows to see if they employed the seemingly insightful string-pulling solutions that some ravens, kea parrots and other brainiac birds are known to employ. Three of four crows passed that test on the first try.

Passage 2
For one month after they left the nest, I led my four young ravens at least once and sometimes several times a day on thirty-minute walks. During these walks, I wrote down everything in their environment they pecked at. In the first sessions, I tried to be teacher. I touched specific objects—sticks, moss, rocks—and nothing that I touched remained untouched by them.

They came to investigate what I had investigated, leading me to assume that young birds are aided in learning to identify food from the parents’ example. They also, however, contacted almost everything else that lay directly in their own paths. They soon became more independent by taking their own routes near mine. Even while walking along on their own, they pulled at leaves, grass stems, flowers, bark, pine needles, seeds, cones, clods of earth, and other objects they encountered. I wrote all this down, converting it to numbers. After they were thoroughly familiar with the background objects in these woods and started to ignore them, I seeded the path we would later walk together with objects they had never before encountered. Some of these were conspicuous food items: raspberries, dead meal worm beetles, and cooked corn kernels. Others were conspicuous and inedible: pebbles, glass chips, red winterberries. Still others were such highly cryptic foods as encased caddisfly larvae and moth cocoons. The results were dramatic.

The four young birds on our daily walks contacted all new objects preferentially. They picked them out at a rate of up to tens of thousands of times greater than background or previously contacted objects. The main initial criterion for pecking or picking anything up was its novelty. In subsequent trials, when the previously novel items were edible, they became preferred and the inedible objects became “background” items, just like the leaves, grass, and pebbles, even if they were highly conspicuous. These experiments showed that ravens’ curiosity ensures exposure to all or almost all items in the environment.

16 2019-20 SAT School Day Student Guide
Within Passage 1, the main purpose of the first two paragraphs (lines 1-11) is to
A) offer historical background in order to question the uniqueness of two researchers' findings.
B) offer interpretive context in order to frame the discussion of an experiment and its results.
C) introduce a scientific principle in order to show how an experiment's outcomes validated that principle.
D) present seemingly contradictory stances in order to show how they can be reconciled empirically.

Estimated Difficulty: Hard

Choice A is incorrect because while the reference to Morgan's canon in the first paragraph offers a sort of historical background (given that the canon was published in 1894), the second paragraph describes people's continuing expectations regarding animal intelligence. Furthermore, the fact that Gray and Hunt may share with other people the tendency to look for humanlike intelligence in many animals does not by itself establish that the main purpose of the first two paragraphs is to question the uniqueness of Gray and Hunt's findings.

Choice B is the best answer. Passage 1 opens with an explanation of Morgan's canon and continues with a discussion of people's expectations regarding animal intelligence. Taken together, the first two paragraphs indicate that despite cautions to the contrary, people still tend to look for humanlike levels of intelligence in many animals, including birds. These two paragraphs provide a framework in which to assess the work of Gray and Hunt, presented in the rest of the passage. The passage's characterization of the experiment Gray and Hunt conduct, in which they observe a crow's tool-making ability and to which Gray responds by trying and failing to mimic the bird's behavior (“I had a go, and I couldn't do it,” line 37), suggests that Shettleworth, quoted in the second paragraph, is at least partially correct in her assessment that “we somehow want to prove [birds] are as ‘smart’ as people” (lines 8-9).

Choice C is incorrect because while the reference to Morgan's canon in the first paragraph does introduce a scientific principle, the discussion in the second paragraph of people's expectations regarding animal intelligence, as well as the passage's characterization of Gray and Hunt's experiment and how the researchers interpret the results, primarily suggest that people tend to violate the canon by attributing humanlike levels of intelligence to many animals.

Choice D is incorrect because although the first two paragraphs do present different perspectives, they are not seemingly or genuinely contradictory. The second paragraph, particularly the quotation from Shettleworth, serves mainly to qualify (not contradict) the position staked out in the first paragraph by suggesting that while Morgan's canon is probably a sound principle, people still tend to project humanlike levels of intelligence onto many animals. Moreover, the experiment depicted in the rest of the passage primarily bears out Shettleworth's claim that “we somehow want to prove [birds] are as ‘smart’ as people” (lines 8-9) and thus does not reconcile the perspectives found in the opening paragraphs.

According to the experiment described in Passage 2, whether the author's ravens continued to show interest in a formerly new object was dictated primarily by whether that object was
A) edible.
B) plentiful.
C) conspicuous.
D) natural.

Estimated Difficulty: Easy

Choice A is the best answer. The last paragraph of Passage 2 presents the results of an experiment in which the author scattered unfamiliar objects in the path of some ravens. According to the passage, the birds initially “contacted all new objects preferentially” but in “subsequent trials” only preferred those “previously novel items” that “were edible” (lines 75-81).

Choice B is incorrect because the ravens studied by the author only preferred those “previously novel items” that “were edible,” whereas “the inedible objects became ‘background’ items, just like the leaves, grass, and pebbles” (lines 80-83). In other words, plentiful items did not continue to interest the ravens unless the items were edible.

Choice C is incorrect because the ravens studied by the author only preferred those “previously novel items” that “were edible,” whereas “the inedible objects became ‘background’ items, just like the leaves, grass, and pebbles, even if they were highly conspicuous” (lines 80-84). In other words, conspicuous items did not continue to interest the ravens unless the items were edible.
The crows in Passage 1 and the ravens in Passage 2 shared which trait?

A) They modified their behavior in response to changes in their environment.
B) They formed a strong bond with the humans who were observing them.
C) They manufactured useful tools for finding and accessing food.
D) They mimicked the actions they saw performed around them.

Choice A is the best answer. Both bird species studied modified their behavior in response to changes in their environment. The researchers described in Passage 1 “had gotten wild crows used to finding meat tidbits in holes in a log” (lines 20-21). In other words, the researchers had repeatedly placed meat in the log—that is, changed the crows’ environment—and the birds had responded by modifying their behavior, a point reinforced in line 22, which noted that the birds began “checking the log reliably.” The ravens in Passage 2 act in analogous fashion, responding to the introduction of new objects in their environment by “pick[ing] them out at a rate of up to tens of thousands of times greater than background or previously contacted objects” (lines 76-78).

Choice B is incorrect because while there is some evidence that the ravens described in Passage 2 mimicked human behavior, going on walks with the author and possibly viewing him as their “teacher,” there is no evidence that the crows in Passage 1 did any mimicking. Passage 1, in fact, suggests that the ability of the crow to produce the meat-fishing tool was innate rather than a skill it had acquired from either humans or other birds.

Choice C is incorrect because while crows’ tool-making ability is the central focus of the experiment described in Passage 1, there is no evidence that the ravens in Passage 2 did anything similar. Passage 1 does mention that “some ravens” use “seemingly insightful string-pulling solutions” (lines 44-45), but nothing in Passage 2 suggests that the ravens in that particular study had or displayed tool-making abilities.

Choice D is incorrect because while there is some evidence that the ravens described in Passage 2 mimicked human behavior, going on walks with the author and possibly viewing him as their “teacher,” there is no evidence that the crows in Passage 1 did any mimicking. Passage 1, in fact, suggests that the ability of the crow to produce the meat-fishing tool was innate rather than a skill it had acquired from either humans or other birds.

Questions 4-6 are based on the following passage and supplementary material.

This passage is adapted from Richard Florida, The Great Reset. ©2010 by Richard Florida.

In today’s idea-driven economy, the cost of time is what really matters. With the constant pressure to innovate, it makes little sense to waste countless collective hours commuting. So, the most efficient and productive regions are those in which people are thinking and working—not sitting in traffic.

The auto-dependent transportation system has reached its limit in most major cities and megaregions. Commuting by car is among the least efficient of all our activities—not to mention among the least enjoyable, according to detailed research by the Nobel Prize–winning economist Daniel Kahneman and his colleagues. Though one might think that the economic crisis beginning in 2007 would have reduced traffic (high unemployment means fewer workers traveling to and from work), the opposite has been true. Average commutes have lengthened, and congestion has gotten worse, if anything. The average commute rose in 2008 to 25.5 minutes, “erasing years of decreases to stand at the level of 2000, as people had to leave home earlier in the morning to pick up friends for their ride to work or to catch a bus or subway train,” according to the U.S. Census Bureau, which collects the figures. And those are average figures. Commutes are far longer in the big West Coast cities of Los Angeles and San Francisco and the East Coast cities of New York, Philadelphia, Baltimore, and Washington, D.C. In many of these cities, gridlock has become the norm, not just at rush hour but all day, every day.

The costs are astounding. In Los Angeles, congestion eats up more than 485 million working hours a year; that’s seventy hours, or nearly two weeks, of full-time work per commuter. In D.C., the time cost of congestion is sixty-two hours per worker per year. In New York it’s forty-four hours. Average it out, and the time cost across America’s thirteen biggest city-regions is fifty-one hours per worker per year. Across the country, commuting wastes 4.2 billion hours of work time annually—nearly a full workweek for every commuter. The overall cost to the U.S. economy is nearly $90 billion when lost productivity and wasted fuel are taken into account. At the Martin Prosperity Institute, we calculate that...
every minute shaved off America’s commuting time is worth $19.5 billion in value added to the economy. The numbers add up fast: five minutes is worth $97.7 billion; ten minutes, $195 billion; fifteen minutes, $292 billion.

It’s ironic that so many people still believe the main remedy for traffic congestion is to build more roads and highways, which of course only makes the problem worse. New roads generate higher levels of “induced traffic,” that is, new roads just invite drivers to drive more and lure people who take mass transit back to their cars. Eventually, we end up with more clogged roads rather than a long-term improvement in traffic flow.

The coming decades will likely see more intense clustering of jobs, innovation, and productivity in a smaller number of bigger cities and city-regions. Some regions could end up bloated beyond the capacity of their infrastructure, while others struggle, their promise stymied by inadequate human or other resources.

Choice B is the best answer because details in the third paragraph (lines 30-46) strongly suggest that researchers (“we”) at the Martin Prosperity Institute assume that shorter commutes will lead to more productive time for workers. The author notes that “across the country, commuting wastes 4.2 billion hours of work time annually” and that “the overall cost to the U.S. economy is nearly $90 billion when lost productivity and wasted fuel are taken into account” (lines 37-41). Given also that those at the institute “calculate that every minute shaved off America’s commuting time is worth $19.5 billion in value added to the economy” (lines 42-44), it can reasonably be concluded that some of that added value is from heightened worker productivity.

Choice A is incorrect because there is no evidence in the passage that researchers at the Martin Prosperity Institute assume that employees who work from home are more valuable to their employers than employees who commute. Although the passage does criticize long commutes, it does not propose working from home as a solution.

Choice C is incorrect because there is no evidence in the passage that researchers at the Martin Prosperity Institute assume that employees can conduct business activities, such as composing memos or joining conference calls, while commuting. The passage does discuss commuting in some detail, but it does not mention activities that commuters can or should be undertaking while commuting, and it generally portrays commuting time as lost or wasted time.

Choice D is incorrect because there is no evidence in the passage that researchers at the Martin Prosperity Institute assume that employees who have lengthy commutes tend to make more money than employees who have shorter commutes. The passage does not draw any clear links between the amount of money employees make and the commutes they have.

As used in line 55, “intense” most nearly means

A) emotional.
B) concentrated.
C) brilliant.
D) determined.

Choice B is the best answer because the context makes clear that the clustering of jobs, innovation, and productivity will be more concentrated in, or more densely packed into, “a smaller number of bigger cities and city-regions” (lines 56-57).
Choice A is incorrect because although “intense” sometimes means “emotional,” it would make no sense in context to say that the clustering of jobs, innovation, and productivity will be more emotional in “a smaller number of bigger cities and city-regions” (lines 56-57).

Choice C is incorrect because although “intense” sometimes means “brilliant,” it would make no sense in context to say that the clustering of jobs, innovation, and productivity will be more brilliant in “a smaller number of bigger cities and city-regions” (lines 56-57).

Choice D is incorrect because although “intense” sometimes means “determined,” it would make no sense in context to say that the clustering of jobs, innovation, and productivity will be more determined in “a smaller number of bigger cities and city-regions” (lines 56-57).

Which claim about traffic congestion is supported by the graph?

A) New York City commuters spend less time annually delayed by traffic congestion than the average for very large cities.

B) Los Angeles commuters are delayed more hours annually by traffic congestion than are commuters in Washington, D.C.

C) Commuters in Washington, D.C., face greater delays annually due to traffic congestion than do commuters in New York City.

D) Commuters in Detroit spend more time delayed annually by traffic congestion than do commuters in Houston, Atlanta, and Chicago.

Estimated Difficulty: Easy  

Choice C is the best answer. Higher bars on the graph represent longer annual commute delays than do lower bars; moreover, the number of hours of annual commute delay generally decreases as one moves from left to right on the graph. The bar for Washington, D.C., is higher than and to the left of that for New York City, meaning that D.C. automobile commuters experience greater amounts of delay each year.

Choice A is incorrect because the graph’s bar for New York City is higher than and to the left of that for the average for very large cities, meaning that New York City automobile commuters experience greater, not lesser, amounts of delay each year.

Choice B is incorrect because the graph’s bar for Los Angeles is lower than and to the right of that for Washington, D.C., meaning that Los Angeles automobile commuters experience lesser, not greater, amounts of delay each year.

Choice D is incorrect because the graph’s bar for Detroit is lower than and to the right of those for Houston, Atlanta, and Chicago, meaning that Detroit automobile commuters experience lesser, not greater, amounts of delay each year.

Questions 7-9 are based on the following passage.

This passage is adapted from a speech delivered by Congresswoman Barbara Jordan of Texas on July 25, 1974, as a member of the Judiciary Committee of the United States House of Representatives. In the passage, Jordan discusses how and when a United States president may be impeached, or charged with serious offenses, while in office. Jordan’s speech was delivered in the context of impeachment hearings against then president Richard M. Nixon.

...
The nature of impeachment: a narrowly channeled exception to the separation of powers maxim. The Federal Convention of 1787 said that. It limited impeachment to high crimes and misdemeanors, and opposed the term “maladministration.” “It is to be used only for great misdemeanors,” so it was said in the North Carolina ratification convention. And in the Virginia ratification convention: “We do not trust our liberty to a particular branch. We need one branch to check the other.” … The North Carolina ratification convention: “No one need be afraid that officers who commit oppression will pass with immunity.” “Prosecutions of impeachments will seldom fail to agitate the passions of the whole community,” said Hamilton in the Federalist Papers, number 65. “We divide into parties more or less friendly or inimical to the accused.”* I do not mean political parties in that sense.

The drawing of political lines goes to the motivation behind impeachment; but impeachment must proceed within the confines of the constitutional term “high crime[s] and misdemeanors.” Of the impeachment process, it was Woodrow Wilson who said that “Nothing short of the grossest offenses against the plain law of the land will suffice to give them speed and effectiveness. Indignation so great as to overgrow party interest may secure a conviction; but nothing else can.”

Common sense would be revolted if we engaged upon this process for petty reasons. Congress has a lot to do: appropriations, tax reform, health insurance, campaign finance reform, housing, environmental protection, energy sufficiency, mass transportation. Pettiness cannot be allowed to stand in the face of such overwhelming problems. So today we’re not being petty. We’re trying to be big, because the task we have before us is a big one.

*Jordan quotes from Federalist No. 65, an essay by Alexander Hamilton, published in 1788, on the powers of the United States Senate, including the power to decide cases of impeachment against a president of the United States.

7

The stance Jordan takes in the passage is best described as that of

A) an idealist setting forth principles.
B) an advocate seeking a compromise position.
C) an observer striving for neutrality.
D) a scholar researching a historical controversy.

Estimated Difficulty: Hard  Key: A

Choice A is the best answer. Jordan helps establish her idealism by declaring that she is an “inquisitor” (line 1) and that her “faith in the Constitution is whole; it is complete; it is total” (lines 3-4). At numerous points in the passage, Jordan sets forth principles (e.g., “The powers relating to impeachment are an essential check in the hands of the body of the legislature against and upon the encroachments of the executive,” in lines 18-20) and makes reference to important documents that do the same, including the U.S. Constitution and Federalist No. 65.

Choice B is incorrect because although Jordan is advocating a position, there is no evidence in the passage that she is seeking a compromise position. Indeed, she notes that she is “not going to sit here and be an idle spectator to the diminution, the subversion, the destruction, of the Constitution” (lines 4-6), indicating that she is not seeking compromise.

Choice C is incorrect because Jordan is a participant (“an inquisitor,” line 1) in the proceedings, not a mere observer. Indeed, she notes that she is “not going to sit here and be an idle spectator to the diminution, the subversion, the destruction, of the Constitution” (lines 4-6).

Choice D is incorrect because Jordan is identified as a congresswoman and an “inquisitor” (line 1), not a scholar, and because she is primarily discussing events happening at the moment, not researching an unidentified historical controversy. Although she refers to historical documents and individuals, her main emphasis is on the (then) present impeachment hearings.
In lines 49-54 (“Prosecutions . . . sense”), what is the most likely reason Jordan draws a distinction between two types of “parties”?

A) To counter the suggestion that impeachment is or should be about partisan politics
B) To disagree with Hamilton’s claim that impeachment proceedings excite passions
C) To contend that Hamilton was too timid in his support for the concept of impeachment
D) To argue that impeachment cases are decided more on the basis of politics than on justice

**Estimated Difficulty:** Medium  |  **Key:** A

*Choice A* is the best answer. Jordan is making a distinction between two types of “parties”: the informal associations to which Alexander Hamilton refers and formal, organized political parties such as the modern-day Republican and Democratic parties. Jordan anticipates that listeners to her speech might misinterpret her use of Hamilton’s quotation as suggesting that she thinks impeachment is essentially a tool of organized political parties to achieve partisan ends, with one party attacking and another defending the president. Throughout the passage, and notably in the seventh paragraph (lines 55-63), Jordan makes clear that she thinks impeachment should be reserved only for the most serious of offenses—ones that should rankle people of any political affiliation.

*Choice B* is incorrect because Jordan offers no objection to Hamilton’s notion that impeachment proceedings excite passions. Indeed, she quotes Hamilton extensively in a way that indicates that she fundamentally agrees with his view on impeachment. Moreover, she acknowledges that her own speech is impassioned—that she feels a “solemnness” (line 2) and a willingness to indulge in “hyperbole” (line 1).

*Choice C* is incorrect because Jordan offers no objection to Hamilton’s level of support for the concept of impeachment. Indeed, she quotes Hamilton extensively in a way that indicates that she fundamentally agrees with his view on impeachment. Choice D is incorrect because Jordan suggests that she and her fellow members of Congress are “trying to be big” (line 71), or high-minded, rather than decide the present case on the basis of politics. Indeed, throughout the last four paragraphs of the passage (lines 37-72), she elaborates on the principled, just basis on which impeachment should proceed. Moreover, throughout the passage, Jordan is focused on the present impeachment hearings, not on the justice or injustice of impeachments generally.

Which choice provides the best evidence for the answer to the previous question?

A) Lines 13-17 (“It . . . office”)
B) Lines 20-24 (“The division . . . astute”)
C) Lines 55-58 (“The drawing . . . misdemeanors’”)
D) Lines 65-68 (“Congress . . . transportation”)

**Estimated Difficulty:** Hard  |  **Key:** C

*Choice C* is the best answer because in lines 55-58, Jordan draws a contrast between political motivations and “high crime[s] and misdemeanors” as the basis for impeachment and argues that impeachment “must proceed within the confines” of the latter concept. These lines thus serve as the best evidence for the answer to the previous question.

*Choice A* is incorrect because lines 13-17 only address a misconception that Jordan contends some people have about what a vote for impeachment means. Therefore, these lines do not serve as the best evidence for the answer to the previous question.

*Choice B* is incorrect because lines 20-24 only speak to a division of responsibility between the two houses of the U.S. Congress. Therefore, these lines do not serve as the best evidence for the answer to the previous question.

*Choice D* is incorrect because lines 65-68 serve mainly to indicate that the U.S. Congress has an extensive and important agenda. Therefore, these lines do not serve as the best evidence for the answer to the previous question.
Writing and Language Test Overview

The Writing and Language Test asks you to be an editor and improve passages that were written especially for the test—and that include deliberate errors.

- Total questions: 44 passage-based questions with multiple-choice responses.
- Time allotted: 35 minutes.
- Calculators may not be used or be on your desk.

What the Writing and Language Test Is Like

When you take the Writing and Language Test, you’ll do things that people do all the time when they edit: read, find mistakes and weaknesses, and fix them.

The good news: You do these things every time you revise your own schoolwork or workshop your writing with a friend.

To answer some questions, you’ll need to look closely at a single sentence. Others require thinking about the entire passage or interpreting a graphic. For instance, you might be asked to choose where a sentence should be placed or to correct a misinterpretation of a scientific table or graph.

What You’ll Read

Writing and Language passages range in length from about 400 to 450 words and vary in complexity. The passages you’ll read will be informative/explanatory texts, nonfiction narratives, or arguments and will cover topics in the areas of careers, history/social studies, the humanities, and science. One or more passages will be accompanied by one or more informational graphics.

You’ll want to read passages carefully so you can make decisions that improve them.

What the Writing and Language Test Measures

The Writing and Language Test measures the skills and knowledge you use to spot and fix problems in writing—the skills and knowledge you’ve been acquiring in high school and that you’ll need for success in college and career. All questions are multiple choice and based on passages and any supplementary material, such as tables and graphs.

Command of Evidence

Questions that test command of evidence ask you to improve the way passages develop information and ideas. For instance, you might choose an answer that sharpens an argumentative claim or adds a relevant supporting detail.

Words in Context

Some questions ask you to improve word choice. You’ll need to choose the best words to use based on the text surrounding them. Your goal will be to make a passage more precise or concise or to improve syntax, style, or tone.

Analysis in History/Social Studies and in Science

You’ll be asked to read and analyze passages about topics in history/social studies and in science and to make decisions that improve the passages (such as revising a paragraph to be more consistent with the data presented in an informational graphic).

Expression of Ideas

Some questions ask about a passage’s topic development, organization, and language use. For instance, you may be asked which words or structural changes improve how a point is made or which phrase or sentence provides the most effective transition between ideas.

Standard English Conventions

Some questions relate to aspects of the mechanics of writing: sentence structure, usage, and punctuation. You’ll be asked to edit text so that it conforms to the conventions of standard written English.

Tips for the Writing and Language Test

The test comprises a series of passages and associated multiple-choice questions that put you in the role of someone revising or editing the work of an unspecified writer. You are revising the passages for development, organization, and effective language use as well as editing the passages to ensure that they follow the conventions of standard written English grammar, usage, and punctuation.
Rote recall of language rules isn’t tested, nor are any questions based on short snippets of text taken out of context. The best answer to each question represents how a writer should develop, organize, and use language in a multiparagraph passage. You are demonstrating that you can make context-based improvements to the text.

The most common format for the questions offers three alternatives to an underlined portion of the passage along with the option of not changing the passage’s original wording. Remember to answer these questions in the context of the whole passage.

Stay with a passage until you have answered as many questions as you can before you proceed to the next passage. Don’t jump from passage to passage.

In your test booklet, mark each question you skip so that you can easily go back to it later if you have time.

Remember that all questions are worth one point regardless of the type or difficulty. You don’t lose points for guessing wrong, so you should try to answer each question as best you can.

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Sample Writing and Language Test Materials

Following are samples of the kinds of passages and questions that may appear on the Writing and Language Test. For each set of sample materials:

- Read the passage carefully.
- Decide on the best answer to each question.
- Read the explanation for the best answer to each question and for the answer you chose (if the two are different).

On the actual test, the passages and questions will be in side-by-side columns, with each passage (spread over multiple pages) in the left column and associated multiple-choice questions in the right column. The directions that follow match the directions on the actual test.
Questions 1-5 are based on the following passage.

Dong Kingman: Painter of Cities

A 1954 documentary about renowned watercolor painter Dong Kingman shows the artist sitting on a stool on Mott Street in New York City’s Chinatown. A crowd of admiring spectators watched as Kingman squeezes dollops of paint from several tubes into a tin watercolor box, from just a few primary colors, Kingman creates dozens of beautiful hues as he layers the translucent paint onto the paper on his easel. Each stroke of the brush and dab of the sponge transforms thinly sketched outlines into buildings, shop signs, and streetlamps. The street scene Kingman begins composing in this short film is very much in keeping with the urban landscapes for which he is best known.

Kingman was keenly interested in landscape painting from an early age. His interest was so keen, in fact, that he was named after it. In Hong Kong, where Kingman completed his schooling, teachers at that time customarily assigned students a formal “school name.” The young boy who had been Dong Moy Shu became Dong Kingman. The name Kingman was selected for its two parts, “king” and “man”; Cantonese for “scenery” and “composition.” As Kingman developed as a painter, his works were often compared to paintings by Chinese landscape artists dating back to CE 960, a time when a strong tradition of landscape painting emerged in Chinese art. Kingman, however, departed from that tradition in a number of ways, most notably in that he chose to focus not on natural landscapes, such as mountains and rivers, but on cities.

His fine brushwork conveys detailed street-level activity: a peanut vendor pushing his cart on the sidewalk, a pigeon pecking for crumbs around a fire hydrant, an old man tending to a baby outside a doorway. His broader brush strokes and sponge-painted shapes create majestic city skylines, with skyscrapers towering in the background, bridges connecting neighborhoods on either side of a river, and delicately painted creatures, such as a tiny, barely visible cat prowling in the bushes of a park. To art critics and fans alike, these city scenes represent the innovative spirit of twentieth-century urban Modernism.

During his career, Kingman exhibited his work internationally, garnering much acclaim. In 1936, a critic described one of Kingman’s solo exhibits as “twenty of the freshest, most satisfying watercolors that have been seen hereabouts in many a day.”
1

A) NO CHANGE  
B) had watched  
C) would watch  
D) watches

**Estimated Difficulty:** Easy  
**Key:** D

**Choice D** is the best answer because the simple present tense verb “watches” is consistent with the tense of the verbs in the rest of the sentence and paragraph.

**Choice A** is incorrect because “watched” creates an inappropriate shift to the past tense.

**Choice B** is incorrect because “had watched” creates an inappropriate shift to the past perfect tense.

**Choice C** is incorrect because “would watch” creates an inappropriate shift that suggests a habitual or hypothetical aspect when other verbs in the sentence and paragraph indicate that a specific, actual instance is being narrated.

2

A) NO CHANGE  
B) box. From just a few primary colors,  
C) box from just a few primary colors,  
D) box, from just a few primary colors

**Estimated Difficulty:** Medium  
**Key:** B

**Choice B** is the best answer because it provides punctuation that creates two grammatically complete and standard sentences.

**Choice A** is incorrect because it results in a comma splice as well as some confusion about what the prepositional phrase “from just a few primary colors” modifies.

**Choice C** is incorrect because it results in a run-on sentence as well as some confusion about what the prepositional phrase “from just a few primary colors” modifies.

**Choice D** is incorrect because it results in a comma splice.

3

A) NO CHANGE  
B) parts: “king” and “man,”  
C) parts “king” and “man”;  
D) parts; “king” and “man”

**Estimated Difficulty:** Hard  
**Key:** B

**Choice B** is the best answer because the colon after “parts” effectively signals what that follows in the sentence further defines what the “two parts” of Kingman’s name are and because the comma after “man” properly indicates that “‘king’ and ‘man’” and “Cantonese for ‘scenery’ and ‘composition’” are nonrestrictive appositives.

**Choice A** is incorrect because the semicolon after “man” incorrectly joins an independent clause and a phrase. Moreover, the comma after “parts” is arguably a weak form of punctuation to be signaling the strong break in the sentence indicated here.

**Choice C** is incorrect because the semicolon after “man” incorrectly joins an independent clause and a phrase and because the absence of appropriate punctuation after “parts” fails to indicate that “two parts” and “‘king’ and ‘man’” are nonrestrictive appositives.

**Choice D** is incorrect because the semicolon after “parts” incorrectly joins an independent clause and two phrases and because the absence of appropriate punctuation after “man” fails to indicate that “‘king’ and ‘man’” and “Cantonese for ‘scenery’ and ‘composition’” are nonrestrictive appositives.

4

The writer wants to complete the sentence with a third example of a detail Kingman uses to create his majestic city skylines. Which choice best accomplishes this goal?

A) NO CHANGE  
B) exquisitely lettered street and storefront signs.  
C) other details that help define Kingman’s urban landscapes.  
D) enormous ships docking at busy urban ports.

**Estimated Difficulty:** Hard  
**Key:** D

**Choice D** is the best answer because the phrase “enormous ships docking at busy urban ports” effectively continues the sentence’s series of details (“skyscrapers towering in the background” and “bridges connecting neighborhoods”) conveying the majesty of city skylines as depicted by Kingman.
Choice A is incorrect because the phrase “delicately painted creatures, such as a tiny, barely visible cat prowling in the bushes of a park” does not convey a sense of the majesty of city skylines as depicted by Kingman and thus does not effectively continue the sentence’s series of details (“skyscrapers towering in the background” and “bridges connecting neighborhoods”).

Choice B is incorrect because the phrase “exquisitely lettered street and storefront signs” does not convey a sense of the majesty of city skylines as depicted by Kingman and thus does not effectively continue the sentence’s series of details (“skyscrapers towering in the background” and “bridges connecting neighborhoods”).

Choice C is incorrect because the phrase “other details that help define Kingman’s urban landscapes” is too vague and general to constitute a third example that conveys a sense of the majesty of city skylines as depicted by Kingman and thus does not effectively continue the sentence’s series of details (“skyscrapers towering in the background” and “bridges connecting neighborhoods”).

The writer wants to conclude the passage with a sentence that emphasizes an enduring legacy of Kingman’s work. Which choice would best accomplish this goal?

A) Although Kingman’s work might not be as famous as that of some other watercolor painters, such as Georgia O’Keeffe and Edward Hopper, it is well regarded by many people.
B) Since Kingman’s death in 2000, museums across the United States and in China have continued to ensure that his now-iconic landscapes remain available for the public to enjoy.
C) The urban landscapes depicted in Kingman’s body of work are a testament to the aptness of the name chosen for Kingman when he was just a boy.
D) Kingman’s work was but one example of a long-lasting tradition refreshed by an innovative artist with a new perspective.

Estimated Difficulty: Hard  Key: B

Choice B is the best answer because it concludes the passage with a sentence that emphasizes the enduring legacy of Kingman’s work by indicating that museums continue to make Kingman’s iconic paintings accessible to the public.

Choice A is incorrect because it concludes the passage with a sentence that acknowledges that the works of other painters are more famous than Kingman’s (which downplays, rather than emphasizes, the enduring legacy of Kingman’s work) and offers only a general assertion that Kingman’s work is “well regarded by many people.”

Choice C is incorrect because instead of referring to the enduring legacy of Kingman’s work, it concludes the passage with a sentence that recalls a detail the passage provides about Kingman’s early life.

Choice D is incorrect because it concludes the passage with a sentence that is too vague and general to emphasize effectively an enduring legacy of Kingman’s work. It is not clear what the idea of refreshing a long-lasting tradition is intended to mean or how (or even whether) this represents an enduring legacy. Moreover, referring to Kingman’s work as “but one example” downplays the significance of any potential legacy that might be suggested.

Questions 6-10 are based on the following passage and supplementary material.

A Life in Traffic

A subway system is expanded to provide service to a growing suburb. A bike-sharing program is adopted to encourage nonmotorized transportation. Stoplight timing is coordinated to alleviate rush hour traffic jams in a congested downtown area. When any one of these changes occur, it is likely the result of careful analysis conducted by transportation planners.

The work of transportation planners generally includes evaluating current transportation needs, assessing the effectiveness of existing facilities, and improving those facilities or designing new ones. Most transportation planners work in or near cities, but some are employed in rural areas. Say, for example, a large factory is built on the outskirts of a small town. Traffic to and from that location would increase at the beginning and end of work shifts. The transportation planner’s job might involve conducting a traffic count to determine the daily number of vehicles traveling on the road to the...
new factory. If analysis of the traffic count indicates that there is more traffic than the current road as it is designed at this time can efficiently accommodate, the transportation planner might recommend widening the road to add another lane.

Transportation planners work closely with a number of community stakeholders, such as government officials and other interested organizations and individuals. For instance, representatives from the local public health department might provide input in designing a network of trails and sidewalks to encourage people to walk more. According to the American Heart Association, walking provides numerous benefits related to health and well-being. Members of the Chamber of Commerce might share suggestions about designing transportation and parking facilities to support local businesses.

People who pursue careers in transportation planning have a wide variety of educational backgrounds. A two-year degree in transportation technology may be sufficient for some entry-level jobs in the field. Most jobs, however, require at least a bachelor’s degree; majors of transportation planners are varied, including fields such as urban studies, civil engineering, geography, or transportation and logistics management. For many positions in the field, a master’s degree is required.

Transportation planners perform critical work within the broader field of urban and regional planning. As of 2010, there were approximately 40,300 urban and regional planners employed in the United States. The United States Bureau of Labor Statistics forecasts steady job growth in this field, predicting that employment of urban and regional planners will increase 16 percent between 2010 and 2020. Population growth and concerns about environmental sustainability are expected to spur the need for transportation planning professionals.

Estimated Difficulty: Hard

Choice D is the best answer because it maintains agreement between the pronoun (“it”) and the antecedent (“any one”) and between the subject (“any one”) and the verb (“occurs”).

Choice A is incorrect because the plural verb “occur” does not agree with the singular subject “any one.”

Choice B is incorrect because the plural verb “occur” does not agree with the singular subject “any one” and because the plural pronoun “they” does not agree with the singular antecedent “any one.”

Choice C is incorrect because the plural pronoun “they” does not agree with the singular antecedent “any one.”

Estimated Difficulty: Medium

Choice A is the best answer because it effectively signals the shift in the paragraph to the example of the work a transportation planner might perform if he or she were employed in a rural area and asked to consider the effects of a new factory built “on the outskirts of a small town.”
Choice B is incorrect because noting that job opportunities are more plentiful in cities does not effectively signal the shift in the paragraph to the example of the work a transportation planner might perform if he or she were employed in a rural area.

Choice C is incorrect because noting that most transportation planners work for government agencies does not effectively signal the shift in the paragraph to the example of the work a transportation planner might perform if he or she were employed in a rural area.

Choice D is incorrect because the proposed deletion would create a jarring shift from the statement “Most transportation planners work in or near cities” to the example of the work a transportation planner might perform if he or she were employed in a rural area.

Choice B is incorrect because the underlined sentence should not be kept. Although the American Heart Association could theoretically be an example of “other interested organizations” that transportation planners work with, the sentence does not suggest this is the case. Instead, the association is merely the source for the general statement about the benefits of walking, a statement that only serves to interrupt the discussion of the actual community stakeholders with whom transportation planners work.

Choice D is incorrect because, although the underlined sentence should be deleted, it is not because the sentence lacks specific examples of the numerous benefits of walking. Adding such examples would only serve to blur the focus of the paragraph further with general factual information, as the paragraph’s main purpose is to discuss the community stakeholders with whom transportation planners work.

Choice D is incorrect because, although the underlined sentence should be deleted, it is not because the sentence lacks specific examples of the numerous benefits of walking. Adding such examples would only serve to blur the focus of the paragraph further with general factual information, as the paragraph’s main purpose is to discuss the community stakeholders with whom transportation planners work.

Choice A is incorrect because the underlined sentence should not be kept. Although the American Heart Association could theoretically provide supporting evidence about the benefits of walking, the passage has not made a claim that needs to be supported in this way, and including such a statement only serves to interrupt the discussion of the community stakeholders with whom transportation planners work.

Choice A is incorrect because the underlined sentence should not be kept. Although the American Heart Association could theoretically be an example of “other interested organizations” that transportation planners work with, the sentence does not suggest this is the case. Instead, the association is merely the source for the general statement about the benefits of walking, a statement that only serves to interrupt the discussion of the actual community stakeholders with whom transportation planners work.

Choice D is incorrect because the underlined sentence should not be kept. Although the American Heart Association could theoretically be an example of “other interested organizations” that transportation planners work with, the sentence does not suggest this is the case. Instead, the association is merely the source for the general statement about the benefits of walking, a statement that only serves to interrupt the discussion of the actual community stakeholders with whom transportation planners work.

Choice D is incorrect because it doesn’t provide specific examples of what the numerous benefits of walking are.

Choice C is the best answer because it identifies the best reason the underlined sentence should not be kept. At this point in the passage and paragraph, a general statement about the benefits of walking only serves to interrupt the discussion of the community stakeholders with whom transportation planners work.

Choice A is incorrect because the underlined sentence should not be kept. Although the American Heart Association could theoretically be an example of “other interested organizations” that transportation planners work with, the sentence does not suggest this is the case. Instead, the association is merely the source for the general statement about the benefits of walking, a statement that only serves to interrupt the discussion of the actual community stakeholders with whom transportation planners work.

Choice D is incorrect because the underlined sentence should not be kept. Although the American Heart Association could theoretically be an example of “other interested organizations” that transportation planners work with, the sentence does not suggest this is the case. Instead, the association is merely the source for the general statement about the benefits of walking, a statement that only serves to interrupt the discussion of the actual community stakeholders with whom transportation planners work.

Choice D is incorrect because, although the underlined sentence should be deleted, it is not because the sentence lacks specific examples of the numerous benefits of walking. Adding such examples would only serve to blur the focus of the paragraph further with general factual information, as the paragraph’s main purpose is to discuss the community stakeholders with whom transportation planners work.

Choice C is incorrect because “and which include” results in an ungrammatical sentence.

Choice C is incorrect because “and which include” results in an ungrammatical sentence.

Choice D is incorrect because it is unclear from this construction to what exactly the relative pronoun “which” refers.
Math

The SAT Math Test covers math practices, emphasizing problem solving, modeling, using tools strategically, and using algebraic structure. The questions test your ability to solve problems and use appropriate approaches and tools strategically.

Math Test Overview

The Math Test includes a portion that allows the use of a calculator and a portion that does not.

- Total questions: 58 (20 questions on the no-calculator portion; 38 questions on the calculator portion).
  - 45 standard multiple-choice questions.
  - 13 student-produced response questions.
- Time allotted for Math Test – No Calculator: 25 minutes; time allotted for Math Test – Calculator: 55 minutes.

What the Math Test Is Like

Instead of testing you on every math topic, the SAT asks you to use the math that you’ll rely on most in all sorts of situations. Questions on the Math Test are designed to mirror the problem solving and modeling you’ll do in:

- College math, science, and social science courses
- Jobs that you hold
- Your personal life

For instance, to answer some questions you’ll need to use several steps because in the real world, a single calculation is rarely enough to get the job done.

- Most math questions will be multiple choice, but some—called student-produced responses—ask you to come up with the answer rather than select the answer.
- Some parts of the test include several questions about a single scenario.

What the Math Test Measures

Fluency

The Math Test is a chance to show that you:

- Carry out procedures flexibly, accurately, efficiently, and strategically.
- Solve problems quickly by identifying and using the most efficient solution approaches.

This might involve solving a problem by inspection, finding a shortcut, or reorganizing the information you’ve been given.

Conceptual Understanding

You’ll demonstrate your grasp of math concepts, operations, and relations. For instance, you might be asked to make connections between properties of linear equations, their graphs, and the contexts they represent.

Applications

Some real-world problems ask you to analyze a situation, determine the essential elements required to solve the problem, represent the problem mathematically, and carry out a solution.

Calculator Use

Calculators are important tools, and to succeed after high school, you’ll need to know how—and when—to use them. In the Math Test – Calculator portion of the test, you’ll be able to focus on complex modeling and reasoning because your calculator can save you time.

However, using a calculator, like any tool, isn’t always the best way to solve a problem. The Math Test includes some questions that it’s better not to use a calculator for, even though you’re allowed to. With these questions, you’ll probably find that the structure of the problem or your reasoning skills will lead you to the answers more efficiently.

Calculator Smarts

- Bring your own calculator. You can’t share one.
- Don’t bring a calculator you’ve never used before. Bring one you know. Practice for the test using the same calculator you’ll use on test day.
- It may help to do scratch work in the test book. Get your thoughts down before using your calculator.
- Make sure your calculator is in good working order with fresh batteries. The testing staff may not have batteries or extra calculators. If your calculator fails during testing and you have no backup, you can complete the test without it. All questions can be answered without a calculator.

Acceptable Calculators

Only battery-operated, handheld equipment can be used for testing. No power cords are allowed. A list of acceptable graphing calculators can be found online at sat.org/calculators.

Calculators permitted during testing include:

- Most graphing calculators that don’t have the unacceptable features listed in the next section
- All scientific calculators
- All four-function calculators (not recommended)
Unacceptable Calculators
You're not allowed to use any of the following items as a calculator (unless approved as an accommodation):

- Tablets, laptops, notebooks, or any other personal computing devices, including wearable technology
- Models that can access the internet, have wireless, Bluetooth, cellular, audio/video recording and playing, camera, or any other smartphone-type feature
- Models that have a computer-style (QWERTY) keyboard, pen-input, or stylus
- Models that use electrical outlets, make noise, or have a paper tape (unless approved as an accommodation). In addition, the use of hardware peripherals such as a stylus with an approved calculator is not permitted. Some models with touch-screen capability are not permitted (e.g., Casio ClassPad).

Answering Student-Produced Response Questions
You'll see directions in the test book for answering student-produced response questions. (See page 35 for an example.) Take the time to be comfortable with the format before test day. Here are some important points:

- Mark no more than one bubble in any column.
- Only answers indicated by filling in the bubbles will be scored (you won't receive credit for anything written in the boxes located above the bubbles).
- It doesn't matter in which column you begin entering your answer. As long as the correct response is recorded within the grid area, you'll receive credit.
- The grid can hold only four characters and can only accommodate positive numbers and zero.
- Unless a problem indicates otherwise, answers can be entered on the grid as a decimal or a fraction.
- Fractions like 3/24 don't need to be reduced to their lowest terms.
- All mixed numbers need to be converted to decimals or improper fractions before being recorded in the grid.
- If the answer is a repeating decimal, you must grid the most accurate truncated or rounded value the grid will accommodate.

Tips for the Math Test
- Familiarize yourself with the directions ahead of time.
- You don't have to memorize formulas. Commonly used formulas are provided with the test directions at the beginning of each Math Test portion. Other formulas that are needed are provided with the test questions themselves. It's up to you to decide which formula is appropriate to a question.
- Read the problem carefully. Look for key words that tell you what the problem is asking. Before you solve each problem, ask yourself these questions: What is the question asking? What do I know?
- With some problems, it may be useful to draw a sketch or diagram of the given information.
- Use the test booklet for scratch work. You're not expected to do all the reasoning and figuring in your head. You won't receive credit for anything written in the booklet, but you'll be able to check your work easily later.
- In the portion of the test that allows calculator use, be strategic when choosing to use your calculator.
- If you don't know the correct answer to a multiple-choice question, eliminate some of the choices. It's sometimes easier to find the wrong answers than the correct one. On some questions, you may even be able to eliminate all the incorrect choices. Remember that you won't lose points for incorrect answers, so plan to make your best guess if you don't know the answer.
- Check your answer to make sure it's a reasonable reply to the question asked. This is especially true for student-produced response questions, where no answer choices are given.

Sample Math Test Materials
The sample math questions that follow show the kinds of questions that may appear on both portions of the Math Test. For these sample materials:

- Review the notes at the beginning of each portion. They match the notes on the actual test.
- Decide on the correct answer to each multiple-choice question, then read the explanation for the correct answer to each question and for the answer you chose (if the two are different).
- Follow the directions for the student-produced response questions shown later in this guide. The directions match the directions on the actual test.
Math Test – No Calculator Questions

DIRECTIONS
For questions 1-5, solve each problem, choose the best answer from the choices provided, and fill in the corresponding bubble on your answer sheet. For question 6, solve the problem and enter your answer in the grid on the answer sheet. Please refer to the directions before question 6 on how to enter your answers in the grid. You may use any available space in your test booklet for scratch work.

NOTES
1. The use of a calculator is not permitted.
2. All variables and expressions used represent real numbers unless otherwise indicated.
3. Figures provided in this test are drawn to scale unless otherwise indicated.
4. All figures lie in a plane unless otherwise indicated.
5. Unless otherwise indicated, the domain of a given function $f$ is the set of all real numbers $x$ for which $f(x)$ is a real number.

REFERENCE

- $A = \pi r^2$
- $C = 2\pi r$
- $A = \ell w$
- $A = \frac{1}{2}bh$
- $c^2 = a^2 + b^2$
- Special Right Triangles

- $V = \ell wh$
- $V = \pi r^2h$
- $V = \frac{4}{3}\pi r^3$
- $V = \frac{1}{3}\pi r^2h$
- $V = \frac{1}{3}\ell wh$

The number of degrees of arc in a circle is 360.
The number of radians of arc in a circle is $2\pi$.
The sum of the measures in degrees of the angles of a triangle is 180.
1

Line $\ell$ is graphed in the $xy$-plane below.

If line $\ell$ is translated up 5 units and right 7 units, then what is the slope of the new line?

A) $\frac{2}{5}$
B) $-\frac{3}{2}$
C) $-\frac{8}{9}$
D) $-\frac{11}{14}$

Estimated Difficulty: Easy  Key: B

Choice B is correct. The slope of a line can be determined by finding the difference in the $y$-coordinates divided by the difference in the $x$-coordinates for any two points on the line. Using the points indicated, the slope of line $\ell$ is $-\frac{3}{2}$. Translating line $\ell$ moves all the points on the line the same distance in the same direction, and the image will be a line parallel to $\ell$. Therefore, the slope of the image is also $-\frac{3}{2}$.

Choice A is incorrect and may result from a combination of errors. You may have erroneously determined the slope of the new line by adding 5 to the numerator and adding 7 to the denominator in the slope of line $\ell$ and gotten the result $\frac{-3+5}{-2+7}$.

Choice C is incorrect. This value may result from a combination of errors. You may have erroneously determined the slope of the new line by subtracting 5 from the numerator and subtracting 7 from the denominator in the slope of line $\ell$.

Choice D is incorrect and may result from adding $\frac{5}{7}$ to the slope of line $\ell$.

2

The average number of students per classroom, $y$, at Central High School can be estimated using the equation $y = 0.8636x + 27.227$, where $x$ represents the number of years since 2004 and $x \leq 10$. Which of the following statements is the best interpretation of the number 0.8636 in the context of this problem?

A) The estimated average number of students per classroom in 2004
B) The estimated average number of students per classroom in 2014
C) The estimated yearly decrease in the average number of students per classroom
D) The estimated yearly increase in the average number of students per classroom

Estimated Difficulty: Easy  Key: D

Choice D is correct. When an equation is written in the form $y = mx + b$, the coefficient of the $x$-term (in this case 0.8636) is the slope of the graph of this equation in the $xy$-plane. The slope of the graph of this linear equation gives the amount that the average number of students per classroom (represented by $y$) changes per year (represented by $x$).

Choice A is incorrect and may result from a misunderstanding of slope and $y$-intercept. The $y$-intercept of the graph of the equation represents the estimated average number of students per classroom in 2004.

Choice B is incorrect and may result from a misunderstanding of the limitations of the model. You may have seen that $x \leq 10$ and erroneously used this statement to determine that the model finds the average number of students in 2014.

Choice C is incorrect and may result from a misunderstanding of slope. You may have recognized that slope models the rate of change but thought that a slope of less than 1 indicates a decreasing function.

3

The graph of $y = (2x - 4)(x - 4)$ is a parabola in the $xy$-plane. In which of the following equivalent equations do the $x$- and $y$-coordinates of the vertex of the parabola appear as constants or coefficients?

A) $y = 2x^2 - 12x + 16$
B) $y = 2x(x - 6) + 16$
C) $y = 2(x - 3)^2 + (-2)$
D) $y = (x - 2)(2x - 8)$
Math Test – No Calculator Questions

Estimated Difficulty: Medium | Key: C

Choice C is correct. The equation \( y = (2x - 4)(x - 4) \) can be written in vertex form, \( y = a(x - h)^2 + k \), to display the vertex, \((h, k)\), of the parabola. To put the equation in vertex form, first multiply: \( (2x - 4)(x - 4) = 2x^2 - 8x - 4x + 16 \). Then, add like terms, \( 2x^2 - 8x - 4x + 16 = 2x^2 - 12x + 16 \). The next step is completing the square.

\[
y = 2x^2 - 12x + 16
\]

Isolate the \( x \) term by factoring

\[
y = 2(x^2 - 6x + 9 - 9) + 16
\]

Make a perfect square in the parentheses

\[
y = 2(x^2 - 6x + 9) - 18 + 16
\]

Move the extra term out of the parentheses

\[
y = 2(x - 3)^2 - 2
\]

Factor inside the parentheses

Simplify the remaining terms

Therefore, the coordinates of the vertex, \((3, -2)\), are both revealed only in choice C. Since you are told that all of the equations are equivalent, simply knowing the form that displays the coordinates of the vertex will save all of these steps—this is known as “seeing structure in the expression or equation.”

Choice A is incorrect; it is in standard form, displaying the \( y \)-value of the \( y \)-intercept of the graph \((0, 16)\) as a constant.

Choice B is incorrect; it displays the \( y \)-value of the \( y \)-intercept of the graph \((0, 16)\) as a constant.

Choice D is incorrect; it displays the \( x \)-value of one of the \( x \)-intercepts of the graph \((2, 0)\) as a constant.

In the complex number system, which of the following is equal to \( (14 - 2i)(7 + 12i) \)? (Note: \( i = \sqrt{-1} \))

A) 74
B) 122
C) 74 + 154i
D) 122 + 154i

Estimated Difficulty: Medium | Key: D

Choice D is correct. Applying the distributive property to multiply the binomials yields the expression \( 98 + 168i - 14i - 24i^2 \). The note in the question reminds you that \( i = \sqrt{-1} \), therefore, \( i^2 = -1 \).

Substituting this value into the expression gives you \( 98 + 168i - 14i + 24 \), and combining like terms results in \( 122 + 154i \).

Choice A is incorrect and may result from a combination of errors. You may not have correctly distributed when multiplying the binomials, multiplying only the first terms together and the second terms together. You may also have used the incorrect equality \( i^2 = 1 \).

Choice B is incorrect and may result from a combination of errors. You may not have correctly distributed when multiplying the binomials, multiplying only the first terms together and the second terms together.

Choice C is incorrect and results from misapplying the statement \( i = \sqrt{-1} \).

Which of the following is equal to \( \sin \left( \frac{\pi}{5} \right) \)?

A) \(-\cos \left( \frac{\pi}{5} \right) \)
B) \(-\sin \left( \frac{\pi}{5} \right) \)
C) \(\cos \left( \frac{3\pi}{10} \right) \)
D) \(\sin \left( \frac{7\pi}{10} \right) \)

Estimated Difficulty: Hard | Key: C

Choice C is correct. Sine and cosine are cofunctions, or are related by the equation \( \sin(x) = \cos \left( \frac{\pi}{2} - x \right) \).

Therefore, \( \sin \left( \frac{\pi}{5} \right) = \cos \left( \frac{\pi}{2} - \frac{\pi}{5} \right) \), which reduces to \( \cos \left( \frac{3\pi}{10} \right) \).

Choice A is incorrect and may result from a misunderstanding about trigonometric relationships. You may have thought that cosine is the inverse function of sine and therefore reasoned that the negative of the cosine of an angle is equivalent to the sine of that angle.

Choice B is incorrect and may result from a misunderstanding of the unit circle and how it relates to trigonometric expressions. You may have thought that, on a coordinate grid, the negative sign only changes the orientation of the triangle formed, not the value of the trigonometric expression.
Choice D is incorrect. You may have confused the relationship between sine and cosine and erroneously added $\frac{\pi}{2}$ to the given angle measure instead of subtracting the angle measure from $\frac{\pi}{2}$.

Student-Produced Response Math Questions

For some questions in the Math Test, you will be asked to solve the problem and enter your answer in the grid, as described below, on the answer sheet.

1. Although not required, it is suggested that you write your answer in the boxes at the top of the columns to help you fill in the bubbles accurately. You will receive credit only if the bubbles are filled in correctly.
2. Mark no more than one bubble in any column.
3. No question has a negative answer.
4. Some problems may have more than one correct answer. In such cases, grid only one answer.
5. Mixed numbers such as $\frac{3}{2}$ must be gridded as 3.5 or 7/2 (If $\frac{31}{2}$ is entered into the grid, it will be interpreted as $\frac{31}{2}$, not $3 \frac{1}{2}$).
6. Decimal answers: If you obtain a decimal answer with more digits than the grid can accommodate, it may be either rounded or truncated, but it must fill the entire grid.

Math Test – No Calculator Questions

$x^2 + y^2 - 6x + 8y = 144$

The equation of a circle in the xy-plane is shown above. What is the diameter of the circle?

Estimated Difficulty: Hard

Key: 26

Completing the square yields the equation $(x - 3)^2 + (y + 4)^2 = 169$, the standard form of an equation of the circle. Understanding this form results in the equation $r^2 = 169$, which when solved for $r$ gives the value of the radius as 13. Diameter is twice the value of the radius; therefore, the diameter is 26.
Math Test – Calculator Questions

DIRECTIONS

For questions 1-8, solve each problem, choose the best answer from the choices provided, and fill in the corresponding bubble on your answer sheet. For questions 9-10, solve the problem and enter your answer in the grid on the answer sheet. Please refer to the directions before question 6 on page 35 on how to enter your answers in the grid. You may use any available space in your test booklet for scratch work.

NOTES

1. The use of a calculator is permitted.
2. All variables and expressions used represent real numbers unless otherwise indicated.
3. Figures provided in this test are drawn to scale unless otherwise indicated.
4. All figures lie in a plane unless otherwise indicated.
5. Unless otherwise indicated, the domain of a given function f is the set of all real numbers x for which f(x) is a real number.

REFERENCE

\[ A = \pi r^2 \]  
\[ C = 2\pi r \]

\[ A = \ell w \]

\[ A = \frac{1}{2}bh \]

\[ c^2 = a^2 + b^2 \]

Special Right Triangles

\[ V = \ell wh \]

\[ V = \pi r^2h \]

\[ V = \frac{4}{3}\pi r^3 \]

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

\[ V = \frac{1}{3}\ell wh \]

The number of degrees of arc in a circle is 360.
The number of radians of arc in a circle is \(2\pi\).
The sum of the measures in degrees of the angles of a triangle is 180.
The recommended daily calcium intake for a 20-year-old person 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 person could drink in a day to meet or exceed the recommended daily calcium intake from these drinks alone?

A) \( 299m + 261j \geq 1,000 \)
B) \( 299m + 261j > 1,000 \)
C) \( \frac{299}{m} + \frac{261}{j} \geq 1,000 \)
D) \( \frac{299}{m} + \frac{261}{j} \geq 1,000 \)

Estimated Difficulty: Easy

Choice A is correct. Multiplying the number of cups of milk by the amount of calcium each cup contains and multiplying the number of cups of juice by the amount of calcium each cup contains gives the total amount of calcium from each source. You must then find the sum of these two numbers to find the total amount of calcium. Because the question asks for the calcium from these two sources to meet or exceed the recommended daily intake, the sum of these two products must be greater than or equal to 1,000.

Choice B is incorrect and may result from a misunderstanding of the meaning of inequality symbols as they relate to real-life situations. This answer does not allow for the daily intake to meet the recommended daily amount.

Choice C is incorrect and may result from a misunderstanding of proportional relationships. Here the wrong operation is applied, with the total amount of calcium per cup divided by the number of cups of each type of drink. These values should be multiplied.

Choice D is incorrect and may result from a combination of mistakes. The inequality symbol used allows the option to exceed, but not to meet, the recommended daily value, and the wrong operation may have been applied when calculating the total amount of calcium intake from each drink.

A company’s manager estimated that the cost \( C \), in dollars, of producing \( n \) items is \( C = 7n + 350 \). The company sells each item for $12. The company makes a profit when the total income from selling a quantity of items is greater than the total cost of producing that quantity of items. Which of the following inequalities gives all possible values of \( n \) for which the manager estimates that the company will make a profit?

A) \( n < 70 \)
B) \( n < 84 \)
C) \( n > 70 \)
D) \( n > 84 \)

Estimated Difficulty: Medium

Choice C is correct. One way to find the correct answer is to create an inequality. The income from sales of \( n \) items is \( 12n \). For the company to profit, \( 12n \) must be greater than the cost of producing \( n \) items; therefore, the inequality \( 12n > 7n + 350 \) can be used to model the scenario. Solving this inequality yields \( n > 70 \).

Choice A is incorrect and may result from a misunderstanding of the properties of inequalities. You may have found the number of items of the break-even point as 70 and used the incorrect notation to express the answer, or you may have incorrectly modeled the scenario when setting up an inequality to solve.

Choice B is incorrect and may result from a misunderstanding of how the cost equation models the scenario. If you use the cost of $12 as the number of items \( n \) and evaluate the expression \( 7n \), you will find the value of 84. Misunderstanding how the inequality relates to the scenario might lead you to think \( n \) should be less than this value.

Choice D is incorrect and may result from a misunderstanding of how the cost equation models the scenario. If you use the cost of $12 as the number of items \( n \) and evaluate the expression \( 7n \), you will find the value of 84. Misunderstanding how the inequality relates to the scenario might lead you to think \( n \) should be greater than this value.
At a primate reserve, the mean age of all the male primates is 15 years, and the mean age of all female primates is 19 years. Which of the following must be true about the mean age \( m \) of the combined group of male and female primates at the primate reserve?

A) \( m = 17 \)
B) \( m > 17 \)
C) \( m < 17 \)
D) \( 15 < m < 19 \)

**Estimated Difficulty:** Medium  
**Key:** D

**Choice D** is correct. You must reason that because the mean of the males is lower than that of the females, the combined mean cannot be greater than or equal to that of the females, while also reasoning that because the mean of the females is greater than that of the males, the combined mean cannot be less than or equal to the mean of the males. Therefore, the combined mean must be between the two separate means.

**Choice A** is incorrect and results from finding the mean of the two means. This answer makes an unjustified assumption that there are an equal number of male and female primates.

**Choice B** is incorrect and results from finding the mean of the two means and misapplying an inequality to the scenario. This answer makes an unjustified assumption that there are more females than males.

**Choice C** is incorrect and results from finding the mean of the two means and misapplying an inequality to the scenario. This answer makes an unjustified assumption that there are more males than females.

A biology class at Central High School predicted that a local population of animals will double in size every 12 years. The population at the beginning of 2014 was estimated to be 50 animals. If \( P \) represents the population \( n \) years after 2014, then which of the following equations represents the class’s model of the population over time?

A) \( P = 12 + 50n \)
B) \( P = 50 + 12n \)
C) \( P = 50(2)^{12n} \)
D) \( P = 50(2)^{\frac{n}{12}} \)

**Estimated Difficulty:** Medium  
**Key:** D

**Choice D** is correct. A population that doubles in size over equal time periods is increasing at an exponential rate. In a doubling scenario, an exponential growth model can be written in the form \( y = a(2)^b \), where \( a \) is the initial population (that is, the population when \( n = 0 \)) and \( b \) is the number of years it takes for the population to double in size. In this case, the initial population is 50, the number of animals at the beginning of 2014. Therefore, \( a = 50 \).

The text explains that the population will double in size every 12 years. Therefore, \( b = 12 \).

**Choice A** is incorrect and may result from a misunderstanding of exponential equations or of the context. This linear model indicates that the initial population is 12 animals and the population is increasing by 50 animals each year. However, this is not the case.

**Choice B** is incorrect and may result from a misunderstanding of exponential equations or of the context. This linear model indicates that the initial population is 50 animals and the population is increasing by 12 animals each year. However, this is not the case.

**Choice C** is incorrect. This exponential model indicates that the initial population is 50 animals and is doubling. However, the exponent \( 12n \) indicates that the population is doubling 12 times per year, not every 12 years.
In the figure above, $\triangle ABC$ is similar to $\triangle EDC$, with $\angle BAC$ corresponding to $\angle CED$ and $\angle ABC$ corresponding to $\angle CDE$. Which of the following must be true?

A) $AE \parallel BD$
B) $AE \perp BD$
C) $AB \parallel DE$
D) $AB \perp DE$

Estimated Difficulty: Medium  
Key: C

Choice C is correct. Given that $\triangle ABC$ is similar to $\triangle EDC$ and $\angle BAC$ corresponds to $\angle CED$, you can determine that $\angle BAC$ is congruent to $\angle CED$. The converse of the alternate interior angle theorem tells us that $AB \parallel DE$. (You can also use the fact that $\angle ABC$ and $\angle CDE$ are congruent to make a similar argument.)

Choice A is incorrect and may result from multiple misconceptions. You may have misidentified the segments as perpendicular and used the wrong notation to express this statement.

Choice B is incorrect and may result from using only the diagram and not considering the given information. The line segments appear to be perpendicular, but need not be, given the information provided.

Choice D is incorrect and may result from misunderstanding either the notation or the vocabulary of parallel and perpendicular lines. You may have incorrectly identified parallel lines as perpendicular.

Questions 6-8 refer to the following information.

The first metacarpal bone is located in the hand. The scatterplot below shows the relationship between the length of the first metacarpal bone and height of 9 people. A line of best fit is also shown.

How many of the 9 people have an actual height that differs by more than 3 centimeters from the height predicted by the line of best fit?

A) 2
B) 4
C) 6
D) 9

Estimated Difficulty: Easy  
Key: B

Choice B is correct. The people who have first metacarpal bones of length 4.0, 4.3, 4.8, and 4.9 centimeters have heights that differ by more than 3 centimeters from the height predicted by the line of best fit.

Choice A is incorrect. There are 2 people whose actual heights are more than 3 centimeters above the height predicted by the line of best fit. However, there are also 2 people whose actual heights are farther than 3 centimeters below the line of best fit.

Choice C is incorrect. There are 6 data points in which the absolute value between the actual height
and the height predicted by the line of best fit is greater than 1 centimeter.

Choice D is incorrect. The data on the graph represents 9 different people; however, the absolute value of the difference between actual height and predicted height is not greater than 3 for all of the people.

Which of the following is the best interpretation of the slope of the line of best fit in the context of this problem?

A) The predicted height increase in centimeters for one centimeter increase in the first metacarpal bone
B) The predicted first metacarpal bone increase in centimeters for every centimeter increase in height
C) The predicted height in centimeters of a person with a first metacarpal bone length of 0 centimeters
D) The predicted first metacarpal bone length in centimeters for a person with a height of 0 centimeters

Estimated Difficulty: Easy | Key: A

Choice A is correct. The slope is the change in the vertical distance divided by the change in the horizontal distance between any two points on a line. In this context, the change in the vertical distance is the change in the predicted height of a person, and the change in the horizontal distance is the change in the length of his or her first metacarpal bone. The unit rate, or slope, is the increase in predicted height for each increase of one centimeter of the first metacarpal bone.

Choice B is incorrect. If you selected this answer, you may have interpreted the slope incorrectly as run over rise.

Choice C is incorrect. If you selected this answer, you may have mistaken the slope for the y-intercept.

Choice D is incorrect. If you selected this answer, you may have mistaken the slope for the x-intercept.

Based on the line of best fit, what is the predicted height for someone with a first metacarpal bone that has a length of 4.45 centimeters?
A) 168 centimeters
B) 169 centimeters
C) 170 centimeters
D) 171 centimeters

Estimated Difficulty: Easy | Key: C

Choice C is correct. First, notice that the scale of the x-axis is 0.1, and therefore the x-value of 4.45 is halfway between the unmarked value of 4.4 and the marked value of 4.5. Then find the y-value on the line of best fit that corresponds to an x-value of 4.45, which is 170.

Choice A is incorrect. If you mistakenly find the point on the line between the x-values of 4.3 and 4.4, you’ll likely find a predicted metacarpal bone length of 168 centimeters.

Choice B is incorrect. If you mistakenly find the point on the line that corresponds to an x-value of 4.4 centimeters, you’ll likely find a predicted height of approximately 169 centimeters.

Choice D is incorrect. If you mistakenly find the point on the line that corresponds to an x-value of 4.5 centimeters, you’ll likely find a predicted height of approximately 171 centimeters. You might also choose this option if you mistakenly use the data point that has an x-value closest to 4.45 centimeters.
Student-Produced Response Math Questions

For questions 9 and 10, you are asked to solve the problem and enter your answer in the grid, as described on page 35 of this booklet.

9

The table shown classifies 103 elements as metal, metalloid, or nonmetal and as solid, liquid, or gas at standard temperature and pressure.

<table>
<thead>
<tr>
<th></th>
<th>Solids</th>
<th>Liquids</th>
<th>Gases</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metals</td>
<td>77</td>
<td>1</td>
<td>0</td>
<td>78</td>
</tr>
<tr>
<td>Metalloids</td>
<td>7</td>
<td>0</td>
<td>0</td>
<td>7</td>
</tr>
<tr>
<td>Nonmetals</td>
<td>6</td>
<td>1</td>
<td>11</td>
<td>18</td>
</tr>
<tr>
<td>Total</td>
<td>90</td>
<td>2</td>
<td>11</td>
<td>103</td>
</tr>
</tbody>
</table>

What fraction of solids and liquids in the table are metalloids?

Estimated Difficulty: Easy  
Key: \( \frac{7}{92}, .076 \)

There are 7 metalloids that are solid or liquid, and there are 92 total solids and liquids. Therefore, the fraction of solids and liquids that are metalloids is \( \frac{7}{92} \) or .076.

10

An architect drew the sketch below while designing a house roof. The dimensions shown are for the interior of the triangle.

![Triangle Sketch]

What is the value of \( \cos x \)?

Estimated Difficulty: Hard  
Key: \( \frac{2}{3}, \frac{4}{6}, \frac{6}{9}, \frac{8}{12}, .666, .667 \)

Because the triangle is isosceles, constructing a perpendicular from the top vertex to the opposite side will bisect the base and create two smaller right triangles. In a right triangle, the cosine of an acute angle is equal to the length of the side adjacent to the angle divided by the length of the hypotenuse.

This gives \( \cos x = \frac{16}{24} \), which can be simplified to \( \cos x = \frac{2}{3} \). Note that \( \frac{16}{24} \) cannot be entered into the answer grid, so this fraction must be reduced. Acceptable answers to grid are \( 2/3, 4/6, 6/9, 8/12, .666, \) and .667.
The SAT Essay

The SAT Essay is a lot like a typical college writing assignment that asks you to analyze a text. It shows colleges that you’re able to read, analyze, and write at the college level.

**IMPORTANT:** Do not write your name or any other personal identifying information on the lines on the answer sheet provided for your essay (for example, “by Jane Doe”). Doing so will delay the receipt of your essay results.

**SAT Essay Overview**

- Total questions: 1 prompt, with points to consider and directions
- 1 passage
- Time allotted: 50 minutes to read and analyze the passage and to develop a written response

**What the SAT Essay Is Like**

The SAT Essay asks you to use your reading, analysis, and writing skills. You’ll be asked to:

- Read a passage.
- Explain how the author builds an argument to persuade an audience.
- Support your explanation with evidence from the passage.

**What the SAT Essay Measures**

The SAT Essay shows how well you understand the passage and use it as the basis for a well-written, well-thought-out response. Your essay will be scored on three dimensions, each on a 2–8 scale:

**Reading:** A successful essay shows that you understood the passage, including the interplay of central ideas and important details. It also shows effective use of textual evidence.

**Analysis:** A successful essay shows your understanding of how the author builds an argument by:

- Examining the author’s use of evidence, reasoning, and/or stylistic and persuasive techniques (or other elements of your choosing)
- Supporting your claims and points effectively
- Focusing on those features of the passage that are most relevant for completing the task

**Writing:** A successful essay is cohesive, organized, and precise, uses an appropriate style and tone, has varied sentences, and observes the conventions of standard written English.

See The SAT Essay Scoring Guide later in this guide to learn more about how the essay is scored.

**The Essay Prompt**

The prompt (question) shown below is nearly identical to the one that will appear on the SAT.

As you read the passage below, consider how [the author] uses:

- Evidence, such as facts or examples, to support claims.
- Reasoning to develop ideas and to connect claims and evidence.
- Stylistic or persuasive elements, such as word choice or appeals to emotion, to add power to the ideas expressed.

Write an essay in which you explain how [the author] builds an argument to persuade [his/her] audience that [author’s claim]. In your essay, analyze how [the author] uses one or more of the features listed above (or features of your own choice) to strengthen the logic and persuasiveness of [his/her] argument. Be sure that your analysis focuses on the most relevant features of the passage.

Your essay should not explain whether you agree with [the author’s] claims, but rather explain how [the author] builds an argument to persuade [his/her] audience.

**The Essay Passage**

All passages have these things in common:

- Written for a broad audience
- Argue a point
- Express subtle views on complex subjects
- Use logical reasoning and evidence to support claims
- Examine ideas, debates, or trends in the arts and sciences or in civic, cultural, or political life
- Always taken from published works

All the information you need to write your essay will be included in the passage or in notes about it.

**Sample Essay Materials**

The following student essays show you what kinds of attributes will be evaluated in the SAT Essay.

Each student essay is followed by an explanation of why it received the assigned score on each of the three dimensions. The directions on the next page match what you’ll encounter on the actual test.
Sample Essay

Directions

The essay gives you an opportunity to show how effectively you can read and comprehend a passage and write an essay analyzing the passage. In your essay, you should demonstrate that you have read the passage carefully, present a clear and logical analysis, and use language precisely.

Your essay must be written on the lines provided in your answer booklet; except for the Planning Page of the answer booklet, you will receive no other paper on which to write. You will have enough space if you write on every line, avoid wide margins, and keep your handwriting to a reasonable size. Remember that people who are not familiar with your handwriting will read what you write. Try to write or print so that what you are writing is legible to those readers.

You have 50 minutes to read the passage and write an essay in response to the prompt provided inside this booklet.

Reminders:

- Do not write your essay in this booklet. Only what you write on the lined pages of your answer booklet will be evaluated.
- An off-topic essay will not be evaluated.

The following sample illustrates the general format of the essay task in the context of a specific prompt, this one related to a passage adapted from an article by Paul Bogard about the value of natural darkness.

As you read the passage below, consider how Paul Bogard uses
- evidence, such as facts or examples, to support claims.
- reasoning to develop ideas and to connect claims and evidence.
- stylistic or persuasive elements, such as word choice or appeals to emotion, to add power to the ideas expressed.


1 At my family's cabin on a Minnesota lake, I knew woods so dark that my hands disappeared before my eyes. I knew night skies in which meteors left smoky trails across sugary spreads of stars. But now, when 8 of 10 children born in the United States will never know a sky dark enough for the Milky Way, I worry we are rapidly losing night's natural darkness before realizing its worth. This winter solstice, as we cheer the days' gradual movement back toward light, let us also remember the irreplaceable value of darkness.

2 All life evolved to the steady rhythm of bright days and dark nights. Today, though, when we feel the closeness of nightfall, we reach quickly for a light switch. And too little darkness, meaning too much artificial light at night, spells trouble for all.

3 Already the World Health Organization classifies working the night shift as a probable human carcinogen, and the American Medical Association has voiced its unanimous support for "light pollution reduction efforts and glare reduction efforts at both the national and state levels." Our bodies need darkness to produce the hormone melatonin, which keeps certain cancers from developing, and our bodies need darkness for sleep. Sleep disorders have been linked to diabetes, obesity, cardiovascular disease and depression, and recent research suggests one main cause of "short sleep" is "long light." Whether we work at night or simply take our tablets, notebooks and smartphones to bed, there isn't a place for this much artificial light in our lives.
The rest of the world depends on darkness as well, including nocturnal and crepuscular species of birds, insects, mammals, fish and reptiles. Some examples are well known—the 400 species of birds that migrate at night in North America, the sea turtles that come ashore to lay their eggs—and some are not, such as the bats that save American farmers billions in pest control and the moths that pollinate 80% of the world's flora. Ecological light pollution is like the bulldozer of the night, wrecking habitat and disrupting ecosystems several billion years in the making. Simply put, without darkness, Earth's ecology would collapse.

In today's crowded, louder, more fast-paced world, night's darkness can provide solitude, quiet and stillness, qualities increasingly in short supply. Every religious tradition has considered darkness invaluable for a soulful life, and the chance to witness the universe has inspired artists, philosophers and everyday stargazers since time began. In a world awash with electric light... how would Van Gogh have given the world his "Starry Night"? Who knows what this vision of the night sky might inspire in each of us, in our children or grandchildren?

Yet all over the world, our nights are growing brighter. In the United States and Western Europe, the amount of light in the sky increases an average of about 6% every year. Computer images of the United States at night, based on NASA photographs, show that what was a very dark country as recently as the 1950s is now nearly covered with a blanket of light. Much of this light is wasted energy, which means wasted dollars. Those of us over 35 are perhaps among the last generation to have known truly dark nights. Even the northern lake where I was lucky to spend my summers has seen its darkness diminish.

It doesn't have to be this way. Light pollution is readily within our ability to solve, using new lighting technologies and shielding existing lights. Already, many cities and towns across North America and Europe are changing to LED streetlights, which offer dramatic possibilities for controlling wasted light. Other communities are finding success with simply turning off portions of their public lighting after midnight. Even Paris, the famed "city of light," which already turns off its monument lighting after 1 a.m., will this summer start to require its shops, offices and public buildings to turn off lights after 2 a.m. Though primarily designed to save energy, such reductions in light will also go far in addressing light pollution. But we will never truly address the problem of light pollution until we become aware of the irreplaceable value and beauty of the darkness we are losing.

Write an essay in which you explain how Paul Bogard builds an argument to persuade his audience that natural darkness should be preserved. In your essay, analyze how Bogard uses one or more of the features listed in the box above (or features of your own choice) to strengthen the logic and persuasiveness of his argument. Be sure that your analysis focuses on the most relevant features of the passage.

Your essay should not explain whether you agree with Bogard's claims, but rather explain how Bogard builds an argument to persuade his audience.
Sample Student Essays
The following student essays show you what kinds of attributes will be evaluated in the SAT Essay. Each essay is followed by an explanation of why it received the assigned score on each of the three dimensions.

SAMPLE 1

Bogard builds an argument to persuade his audience about what he is concerning about and feels it important to take care about. His essay talks about so much facts about sleeping how so little can effect us health wise examples like getting sleep disorders, diabetes, obesity, cardiovascular disease and depression. This facts helps people persuade the audience he also say that the world health organization classifies working night shift is bad. In his argument is not all about how it bad for the body he also claims and have proof that light cost are expensive and really costing people because they have light all night long. He also claims light is messing with mother nature that animals need darkness to feed eat move around because there noctuaral creatures. He has details facts about human body, animals and about mother nature that he can use to support his idea of not using so much light at night and how we need darkness. With these features he can persuade the audience because people dont know why darkness can be good for us. He was all of facts and examples that he claim is effecting us and there world.

This response scored a 2/1/1.

Reading—2: This response demonstrates some comprehension of the source text, although the writer's understanding of Bogard's central idea isn't conveyed until the latter part of the essay, where the writer indicates that Bogard includes details facts about human body, animals and about mother nature that he can use to support his idea of not using so much light at night and how we need darkness. Prior to this, the writer has included details from the text, but without contextualizing these details within Bogard's broader argument, suggesting that the writer is relaying ideas from the text without much understanding of how they contribute to the whole. For example, the writer mentions the health problems cited in the text, that working the night shift is classified as bad, and that light costs are high, but doesn't explain how these points relate to Bogard's main claim that we must preserve natural darkness. On the whole, this essay displays only a partial understanding of the source text.

Analysis—1: In this essay, the writer has merely identified aspects of Bogard's use of evidence without explaining how the evidence contributes to the argument. The writer notes that Bogard's text talks about so much facts about sleeping how so little can effect us health wise examples like getting sleep disorders, diabetes, obesity, cardiovascular disease and depression. This facts helps people persuade the audience. Other than identifying these as persuasive facts, however, the writer does nothing to indicate an understanding of the analytical task. The writer again mentions persuasion before the conclusion of the essay (With these features he can persuade the audience because people dont know why darkness can be good for us), but once again, there is no explanation of how or why these features are persuasive. Thus, the essay offers inadequate analysis of Bogard's text.

Writing—1: This response demonstrates little cohesion and inadequate skill in the use and control of language. From the outset, problems with language control impede the writer's ability to establish a clear central claim (Bogard builds an argument to persuade his audience about what he is concerning about and feels it important to take care about). The response also lacks a recognizable introduction and conclusion, and sentences are strung together without a clear progression of ideas (for much of the response, the writer merely lists claims Bogard makes). The response also lacks variety in sentence structures, in part because of repetitive transitions. (For example, he also claims is used two sentences in a row in this brief response). Weak control of the conventions of standard written English, coupled with vague word choice, undermines the quality of writing. Overall, this response demonstrates inadequate writing skill.
Paul Bogard strongly believes that natural darkness should be preserved. In order to prove the need for natural darkness, Bogard divides his argument into three main topics, saying that natural darkness is beneficial to humans, essential to humans, and essential to ecosystems.

According to Bogard, natural darkness can be a positive help to humans. One of the ways it can accomplish this is by giving enjoyment to onlookers. To supplant this, Bogard gives a personal example of how he enjoyed seeing meteors dart across the night sky in Minnesota as a child. Also he states that natural darkness can be a source of solitude. Supporting this claim, Bogard states that darkness is invaluable to every religion. Additionally Bogard says that the night sky has inspired countless numbers of philosophers, artists, and stargazers for millennia. He then gives an appealing allusion by asking how Van Gogh could have painted “Starry Night” in the mist of electric light. One of Bogard’s primary arguments for natural darkness shows how it can benefit humans.

Bogard then gives a scientific case that shows why natural darkness is essential to humans. He states a find of the World Health Organization that declares the night shift can be detrimental to one’s health. He points to the necessity of darkness in producing melatonin, a hormone that helps prevent certain cancers from developing in the human body. Bogard then concludes his argument that darkness is essential to human well-being by analyzing sleep. He first makes the obvious claim that darkness is essential for sleep. Then, he talks about the negative health effects of sleep disorders; these include “diabetes, obesity, cardiovascular disease and depression.” To associate this with his argument for natural darkness, Bogard states the findings of recent research, which say that “long light” is one of the primary causes of “short sleep.” Bogard uses scientific evidence to support his belief in the preservation of natural darkness.

Bogard’s third primary defense of natural darkness declares that it is essential to nature. He notes that there are a variety of nocturnal and crepuscular species of birds, fish, mammals, insects, and reptiles worldwide. He gives two specific, well-known examples of these species; these discussed the 400 species of North American birds that migrate at night and the sea turtles that lay their eggs on the shore at night. He also gives a couple of lesser-known examples, involving bats and moths that show the positive actions that some nocturnal animals perform. He then concludes his argument for nocturnal darkness necessary to nature with persuasion, saying that removing natural darkness would essentially destroy an ecology that took billions of years to develop. Here, Bogard uses scientific fact to prove that natural darkness is a key to nature and ecology. Paul Bogard supports the preservation of natural darkness. He uses an argument to support his position that has three primary points—benefit to humans, need for humans and need for nature.

This response scored a 4/1/3.

Reading—4: This response demonstrates thorough comprehension of Bogard’s text and a clear understanding of the interrelation between the central idea and important details. The writer briefly summarizes Bogard’s central idea (natural darkness should be preserved) and aptly notes that Bogard’s argument encompasses three main points: that natural darkness is beneficial to humans, essential to humans, and essential to ecosystems. The writer provides various details from the text that support these points. In the first body paragraph, for example, the writer demonstrates comprehension of how Bogard’s personal example of how he enjoyed seeing meteors dart across the night sky in Minnesota as a child relates to his claim that natural darkness can give enjoyment to onlookers. The writer also sees the connection between darkness as a source of solitude and it inspiring countless numbers of philosophers, artists, and stargazers for millennia. Providing these details highlights the writer’s
understanding of Bogard’s claim that natural darkness can benefit humans. The writer continues to demonstrate how details in Bogard’s text relate to each other and to Bogard’s central idea in the subsequent discussion of how darkness is essential to humans’ health and to nature. Although little is directly quoted from the text, the writer’s thorough paraphrasing of multiple details taken from across the passage indicates that the writer comprehensively understands Bogard’s argument and is able to convey it in his own words.

**Analysis—1:** The response offers ineffective analysis of Bogard’s text and demonstrates little understanding of the analytical task. Although clearly comprehending the entirety of Bogard’s argument, the writer does not communicate how Bogard builds his argument with evidence, reasoning, or stylistic or persuasive elements, nor does the writer communicate what effect Bogard’s argumentation has on his audience. Instead of providing effective analysis, the writer only identifies argumentative elements in Bogard’s text, such as the appealing allusion Bogard offers regarding Van Gogh’s *Starry Night* or the scientific evidence Bogard uses to support his belief in the preservation of natural darkness. The writer instead consistently lapses into summary. Overall, the response demonstrates inadequate analysis.

**Writing—3:** This mostly cohesive response demonstrates effective use and control of language. The writer presents an effective introduction with a clear central claim that lays out the three points discussed in the response (*In order to prove the need for natural darkness, Bogard divides his argument into three main topics, saying that natural darkness is beneficial to humans, essential to humans, and essential to the ecosystem*). The response also includes a generally effective conclusion that summarizes rather than advances the essay (*Paul Bogard supports the preservation of natural darkness. He uses an argument to support his position that has three primary points—benefit to humans, need for humans and need for nature* although the conclusion is not marked off by a paragraph break. The response is organized clearly around the three points identified in the introduction, and each body paragraph stays on topic. The writer also demonstrates a clear progression of ideas both within paragraphs and throughout the essay. Sentence structure tends to be repetitive and simple, however. For example, at or near the end of each body paragraph, the writer restates the point that introduces that paragraph (*Bogard then gives a scientific case that shows why natural darkness is essential to humans. . . . Bogard uses scientific evidence to support his belief in the preservation of natural darkness*).

Although the writing in this response is proficient, it does not demonstrate the sentence variety, precise word choice, or highly effective progression of ideas that is expected at the advanced level.
In response to our world’s growing reliance on artificial light, writer Paul Bogard argues that natural darkness should be preserved in his article “Let There be dark.” He effectively builds his argument by using a personal anecdote, allusions to art and history, and rhetorical questions.

Bogard starts his article off by recounting a personal story – a summer spent on a Minnesota lake where there was “woods so dark that [his] hands disappeared before [his] eyes.” In telling this brief anecdote, Bogard challenges the audience to remember a time where they could fully amass themselves in natural darkness void of artificial light. By drawing in his readers with a personal encounter about night darkness, the author means to establish the potential for beauty, glamour, and awe-inspiring mystery that genuine darkness can possess. He builds his argument for the preservation of natural darkness by reminiscing for his readers a first-hand encounter that proves the “irreplaceable value of darkness.”

This anecdote provides a baseline of sorts for readers to find credence with the author’s claims. Bogard’s argument is also furthered by his use of allusion to art – Van Gogh’s “Starry Night” – and modern history – Paris’ reputation as “The City of Light.” By first referencing “Starry Night,” a painting generally considered to be undoubtedly beautiful, Bogard establishes that the natural magnificence of stars in a dark sky is definite. A world absent of excess artificial light could potentially hold the key to a grand, glorious night sky like Van Gogh’s according to the writer. This urges the readers to weigh the disadvantages of our world consumed by unnatural, vapid lighting. Furthermore, Bogard’s alludes to Paris as “the famed ‘city of light’”. He then goes on to state how Paris has taken steps to exercise more sustainable lighting practices. By doing this, Bogard creates a dichotomy between Paris’ traditionally alluded-to name and the reality of what Paris is becoming – no longer “the city of light,” but more so “the city of light...before 2 AM.” This furthers his line of argumentation because it shows how steps can be and are being taken to preserve natural darkness. It shows that even a city that is literally famous for being constantly lit can practically address light pollution in a manner that preserves the beauty of both the city itself and the universe as a whole.

Finally, Bogard makes subtle yet efficient use of rhetorical questioning to persuade his audience that natural darkness preservation is essential. He asks the readers to consider “what the vision of the night sky might inspire in each of us, in our children or grandchildren?” in a way that brutally plays to each of our emotions. By asking this question, Bogard draws out heartfelt ponderance from his readers about the affecting power of an untainted night sky. This rhetorical question tugs at the readers’ heartstrings; while the reader may have seen an unobscured night skyline before, the possibility that their child or grandchild will never get the chance sways them to see as Bogard sees. This strategy is definitively an appeal to pathos, forcing the audience to directly face an emotionally-charged inquiry that will surely spur some kind of response. By doing this, Bogard develops his argument, adding gutthral power to the idea that the issue of maintaining natural darkness is relevant and multifaceted.

Writing as a reaction to his disappointment that artificial light has largely permeated the prescence of natural darkness, Paul Bogard argues that we must preserve true, unaffected darkness. He builds this claim by making use of a personal anecdote, allusions, and rhetorical questioning.
This response scored a 4/4/4.

Reading—4: This response demonstrates thorough comprehension of the source text through skillful use of paraphrases and direct quotations. The writer briefly summarizes the central idea of Bogard’s piece (natural darkness should be preserved; we must preserve true, unaffected darkness), and presents many details from the text, such as referring to the personal anecdote that opens the passage and citing Bogard’s use of Paris’ reputation as “The City of Light.” There are few long direct quotations from the source text; instead, the response succinctly and accurately captures the entirety of Bogard’s argument in the writer’s own words, and the writer is able to articulate how details in the source text interrelate with Bogard’s central claim. The response is also free of errors of fact or interpretation. Overall, the response demonstrates advanced reading comprehension.

Analysis—4: This response offers an insightful analysis of the source text and demonstrates a sophisticated understanding of the analytical task. In analyzing Bogard’s use of personal anecdote, allusions to art and history, and rhetorical questions, the writer is able to explain carefully and thoroughly how Bogard builds his argument over the course of the passage. For example, the writer offers a possible reason for why Bogard chose to open his argument with a personal anecdote, and is also able to describe the overall effect of that choice on his audience (In telling this brief anecdote, Bogard challenges the audience to remember a time where they could fully amass themselves in natural darkness void of artificial light. By drawing in his readers with a personal encounter … the author means to establish the potential for beauty, glamour, and awe-inspiring mystery that genuine darkness can possess. … This anecdote provides a baseline of sorts for readers to find credence with the author’s claims). The cogent chain of reasoning indicates an understanding of the overall effect of Bogard’s personal narrative both in terms of its function in the passage and how it affects his audience. This type of insightful analysis is evident throughout the response and indicates advanced analytical skill.

Writing—4: The response is cohesive and demonstrates highly effective use and command of language. The response contains a precise central claim (He effectively builds his argument by using personal anecdote, allusions to art and history, and rhetorical questions), and the body paragraphs are tightly focused on those three elements of Bogard’s text. There is a clear, deliberate progression of ideas within paragraphs and throughout the response. The writer’s brief introduction and conclusion are skillfully written and encapsulate the main ideas of Bogard’s piece as well as the overall structure of the writer’s analysis. There is a consistent use of both precise word choice and well-chosen turns of phrase (the natural magnificence of stars in a dark sky is definite, our world consumed by unnatural, vapid lighting, the affecting power of an untainted night sky). Moreover, the response features a wide variety in sentence structure and many examples of sophisticated sentences (By doing this, Bogard creates a dichotomy between Paris’ traditionally alluded-to name and the reality of what Paris is becoming – no longer “the city of light”, but moreso “the city of light…before 2AM”). The response demonstrates a strong command of the conventions of written English. Overall, the response exemplifies advanced writing proficiency.
The SAT Essay Scoring Guide

<table>
<thead>
<tr>
<th>Score</th>
<th>Reading</th>
<th>Analysis</th>
<th>Writing</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td><strong>Advanced:</strong> The response demonstrates thorough comprehension of the source text. The response shows an understanding of the text’s central idea(s) and of most important details and how they interrelate, demonstrating a comprehensive understanding of the text. The response is free of errors of fact or interpretation with regard to the text. The response makes skillful use of textual evidence (quotations, paraphrases, or both), demonstrating a complete understanding of the source text.</td>
<td><strong>Advanced:</strong> The response offers an insightful analysis of the source text and demonstrates a sophisticated understanding of the analytical task. The response offers a thorough, well-considered evaluation of the author’s use of evidence, reasoning, and/or stylistic and persuasive elements, and/or feature(s) of the student’s own choosing. The response contains relevant, sufficient, and strategically chosen support for claim(s) or point(s) made. The response focuses consistently on those features of the text that are most relevant to addressing the task.</td>
<td><strong>Advanced:</strong> The response is cohesive and demonstrates a highly effective use and command of language. The response includes a precise central claim. The response includes a skillful introduction and conclusion. The response demonstrates a deliberate and highly effective progression of ideas both within paragraphs and throughout the essay. The response has a wide variety in sentence structures. The response demonstrates a consistent use of precise word choice. The response maintains a formal style and objective tone. The response shows a strong command of the conventions of standard written English and is free or virtually free of errors.</td>
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<td>3</td>
<td><strong>Proficient:</strong> The response demonstrates effective comprehension of the source text. The response shows an understanding of the text’s central idea(s) and important details. The response is free of substantive errors of fact and interpretation with regard to the text. The response makes appropriate use of textual evidence (quotations, paraphrases, or both), demonstrating an understanding of the source text.</td>
<td><strong>Proficient:</strong> The response offers an effective analysis of the source text and demonstrates an understanding of the analytical task. The response competently evaluates the author’s use of evidence, reasoning, and/or stylistic and persuasive elements, and/or feature(s) of the student’s own choosing. The response contains relevant and sufficient support for claim(s) or point(s) made. The response focuses primarily on those features of the text that are most relevant to addressing the task.</td>
<td><strong>Proficient:</strong> The response is mostly cohesive and demonstrates effective use and control of language. The response includes a central claim or implicit controlling idea. The response includes an effective introduction and conclusion. The response demonstrates a clear progression of ideas both within paragraphs and throughout the essay. The response has variety in sentence structures. The response demonstrates some precise word choice. The response maintains a formal style and objective tone. The response shows a good control of the conventions of standard written English and is free of significant errors that detract from the quality of writing.</td>
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<td>Score</td>
<td>Reading</td>
<td>Analysis</td>
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<td>2</td>
<td><strong>Partial:</strong> The response demonstrates some comprehension of the source text. The response shows an understanding of the text’s central idea(s) but not of important details. The response may contain errors of fact and/or interpretation with regard to the text. The response makes limited and/or haphazard use of textual evidence (quotations, paraphrases, or both), demonstrating some understanding of the source text.</td>
<td><strong>Partial:</strong> The response offers limited analysis of the source text and demonstrates only partial understanding of the analytical task. The response identifies and attempts to describe the author’s use of evidence, reasoning, and/or stylistic and persuasive elements, and/or feature(s) of the student’s own choosing, but merely asserts rather than explains their importance. Or one or more aspects of the response’s analysis are unwarranted based on the text. The response contains little or no support for claim(s) or point(s) made. The response may lack a clear focus on those features of the text that are most relevant to addressing the task.</td>
<td><strong>Partial:</strong> The response demonstrates little or no cohesion and limited skill in the use and control of language. The response may lack a clear central claim or controlling idea or may deviate from the claim or idea over the course of the response. The response may include an ineffective introduction and/or conclusion. The response may demonstrate some progression of ideas within paragraphs but not throughout the response. The response has limited variety in sentence structures; sentence structures may be repetitive. The response demonstrates general or vague word choice; word choice may be repetitive. The response may deviate noticeably from a formal style and objective tone. The response shows a limited control of the conventions of standard written English and contains errors that detract from the quality of writing and may impede understanding.</td>
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<td>1</td>
<td><strong>Inadequate:</strong> The response demonstrates little or no comprehension of the source text. The response fails to show an understanding of the text’s central idea(s), and may include only details without reference to central idea(s). The response may contain numerous errors of fact and/or interpretation with regard to the text. The response makes little or no use of textual evidence (quotations, paraphrases, or both), demonstrating little or no understanding of the source text.</td>
<td><strong>Inadequate:</strong> The response offers little or no analysis or ineffective analysis of the source text and demonstrates little or no understanding of the analytic task. The response identifies without explanation some aspects of the author’s use of evidence, reasoning, and/or stylistic and persuasive elements, and/or feature(s) of the student’s choosing. Or numerous aspects of the response’s analysis are unwarranted based on the text. The response contains little or no support for claim(s) or point(s) made, or support is largely irrelevant. The response may not focus on features of the text that are relevant to addressing the task. Or the response offers no discernible analysis (e.g., is largely or exclusively summary).</td>
<td><strong>Inadequate:</strong> The response demonstrates little or no cohesion and inadequate skill in the use and control of language. The response may lack a clear central claim or controlling idea. The response lacks a recognizable introduction and conclusion. The response does not have a discernible progression of ideas. The response lacks variety in sentence structures; sentence structures may be repetitive. The response demonstrates general and vague word choice; word choice may be poor or inaccurate. The response may lack a formal style and objective tone. The response shows a weak control of the conventions of standard written English and may contain numerous errors that undermine the quality of writing.</td>
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What You Need to Know About Taking the SAT

SAT Terms and Conditions

The testing policies and other information in this guide apply to every SAT test administration. From time to time, College Board might update these policies. We encourage you to review the latest policies at sat.org/test-security.

By taking the SAT, you’re certifying that you are the person whose personal information is being provided for the test and that the information you are providing is accurate. Giving false or misleading information about yourself, such as name, address, date of birth, current grade level, expected graduation date, name of high school, or photo, can result in an investigation, cancellation of scores, and a testing ban for College Board assessments, and such other actions as College Board, in its sole discretion, deems appropriate. We reserve the right to cancel scores from College Board test administrations that occurred prior to the test administration at issue.

- When someone registers for you, we will interpret that as you giving them permission to do so and you agreeing to the testing policies and guidelines through them.
- If your school participates in an SAT School Day administration and/or a bulk registration process for the test, College Board may receive your personal information, including first name, last name, gender, date of birth, and mailing address, from your school. This information will be kept secure and added to your permanent College Board record to be used for score reporting purposes as well as the other purposes that are outlined in this guide. By taking the SAT test and signing the SAT answer sheet, you acknowledge that your school has provided this information to College Board and consent to College Board retaining this information.
- Creating fake or multiple College Board student accounts, intentionally or inadvertently, is strictly prohibited and can result in an investigation, the merging of relevant records, and penalties that may include score cancellation or being banned from taking College Board assessments, including AP®, SAT, and SAT Subject Tests.
- If you want to cancel your scores, your request must be received by the fourth weekday after a test administration. (For example, if you test on a Tuesday, your request must be received by the next Monday.) Once you submit your request to cancel scores, your scores cannot be reinstated and are not reported to you or your designated institutions. Canceled student scores will still be sent to the state and district and will be accessible to your school.
- For additional score report requests, only score reports from completed and scored tests are sent to your colleges and scholarship programs. Scores from future tests you’ve been registered for but haven’t yet completed are not included. You can send all your scores to an institution, or you can choose which scores to send an institution by test date. Score Choice is optional; if you decide not to use it when sending scores, College Board will send all of your scores to the recipient institutions.
- Each time you test, you can choose the colleges or scholarship programs you want to send your scores to. The first four score sends are included with your answer sheet. If you are undecided about where to send your scores, you can add or change your score recipients online. Any changes to the institutions in your four free score sends must be made within nine days of your original test date. The four score-sending requests that are included with your test cannot be applied to past or future score-sending requests or registrations.
- Most, but not all, scores will be reported online and available by phone two to three weeks after the test date. Your score report will be delivered to the high school, colleges, universities, and scholarship programs you indicated on your answer sheet, and additional score report requests will be delivered within a few weeks of the request.
- SAT Program policies are subject to change at any time for test security or other reasons. The SAT Program will attempt to provide adequate prior notice, although circumstances may limit our ability to do so.
- College Board and the test site will not be responsible for personal property, including prohibited items, brought to the test site on test day that becomes lost, stolen, or damaged.
- In certain cases, including where there is unexpected volume in a particular area or for test security reasons, College Board reserves the right to move test takers to a different location or to a subsequent test administration.
- In the event of a test security–related concern, public health threat, natural disaster, terrorist act, or other unexpected events or circumstances, College Board may cancel testing for all or a specific group of test takers. When this occurs, the SAT Program will notify test takers in advance if possible. We will communicate test cancellations and, when feasible, alternative test dates for affected test takers.
To ensure the integrity of the SAT Program, College Board reserves the right to bar any individual or group of individuals from registering for and/or taking any College Board test.

If College Board becomes aware that you or someone else may be in imminent danger, including a determination based on the content of your SAT essay, we reserve the right to contact the appropriate individuals or agencies, including your high school or law enforcement agencies. We might also provide the relevant essay or other content, along with any personal information, to those contacted.

Except as otherwise indicated in these terms and conditions, College Board and its agents and subcontractors shall not be liable for any damages, including consequential, direct, indirect, or punitive damages arising from or otherwise related to test development and administration, score reporting, test security, or the failure of testing staff, students, or school districts to comply with College Board’s policies and procedures, whether or not (a) the claim is contract based or (b) College Board has been advised of the possibility of such damages.

College Board takes steps to ensure that answer sheets are properly handled and scored. In the unlikely event of a problem with shipping or otherwise processing answer sheets, or score reports, or with scoring the test, or score reporting, College Board will correct the error, if possible, schedule a makeup test for impacted test takers, or provide a refund of the test fee if the test taker has paid it. These are the sole remedies for test takers in relation to such issues. College Board has sole discretion in determining whether to score lost answer sheets that are eventually recovered.

Additional Privacy Policies

College Board employs an array of measures, in compliance with applicable laws and the policies and guidelines set forth herein, to manage and safeguard personal information that you provide to College Board. Please see College Board’s online privacy policy at collegeboard.org/privacy-policy.

Some of the information is available to your high school, the ETS Office of Testing Integrity, and College Board. In the event of an investigation involving the validity of your test scores, your information may be made available to institutions you have sent your scores to. When legally compelled to do so, for example pursuant to a subpoena, College Board may provide your personal information to outside parties.

College Board does not use either your raw score or your reported scaled score by itself or in combination with any other information to predict your individual future academic performance at specific postsecondary institutions. However, College Board does provide assistance to individual colleges and universities to help them use and interpret SAT scores. Test scores are the property of College Board.

Your scores will be made available to your high school. In addition, individual scores and other information you provide during testing may be reported to your district or state and/or their agents and representatives for educational, diagnostic and/or reporting purposes. For more information about the guidelines on the uses of College Board test scores and related data, ask your counselor or download Guidelines on the Uses of College Board Test Scores and Related Data from collegeboard.org/research. Your name will never be sold to a commercial marketing firm or retailer of merchandise or services (such as test prep).

College Board will disclose scores to a student’s parent or guardian if the parent or guardian is able to supply to College Board the required authentication information, unless College Board determines in its sole discretion that its records on the student contain a court order, state statute, or legally binding document relating to matters such as divorce, separation, or custody that restricts the parent’s or guardian’s access to the student’s scores. College Board will not independently investigate whether a court order, state statute, or legally binding document exists other than in its records; rather, relevant documents and information must be submitted to College Board. College Board reserves the right to request additional documents and information in connection with determining whether or not to disclose scores to a parent or guardian.

Other than disputes involving an “Invalid Scores” review (see the “Invalid Scores” section later in this guide) or infringement of College Board’s intellectual property rights, all disputes against College Board and/or any or all of its contractors, that relate in any way to registering for or taking the SAT, including but not limited to requesting or receiving test accommodations, score reporting, and the use of test taker data, shall exclusively be resolved by a single arbitrator through binding, individual arbitration administered by the American Arbitration Association (“AAA”), under the AAA Consumer Arbitration Rules in effect at the time a request for arbitration is filed with the AAA. Copies of the AAA Rules can be located at www.adr.org. Unless the parties mutually agree otherwise, the seat and the place of the arbitration shall be New York, New York. The parties agree that the Federal Arbitration Act (“FAA”), 9 U.S.C. § 1 et seq. governs this provision, and it is the intent of the parties that the FAA shall pre-empt all State laws to the fullest extent permitted by law. No arbitration may be maintained as a class action, and the arbitrator shall not have the authority to combine or aggregate the disputes of more than one individual, conduct any class proceeding, make any class award, or make an award to
any person or entity not a party to the arbitration, without
the express written consent of College Board. By agreeing
to arbitration in accordance with this section, you are
waiving your right to have your dispute heard by a judge
or jury. Each party will be responsible for its own fees
and expenses incurred in connection with the arbitration,
regardless of its outcome. For purposes of this provision,
each College Board contractor is a third-party beneficiary
of this section, is entitled to the rights and benefits
hereunder, and may enforce the provisions hereof as if it
were a party hereto.

Notice to EU Residents
College Board is providing this supplemental privacy
notice to give individuals in the European Union (EU)
this additional information required by the EU General
Data Protection Regulation (GDPR). These provisions,
together with the statements in College Board Privacy
Notices, explain our practices with regard to processing
EU residents’ personal data. For the most up to date
information please visit collegeboard.org/privacy-policy/
notice-to-eu-residents or contact Customer Service at
eucustomerservice@collegeboard.org or (844) 849-3551.

College Board requires certain Personal Information
from you in order to provide you with our products and
services. Our registration forms indicate which data
elements are required for our contracts. If you do not
provide these data elements or you provide inaccurate
information, this will invalidate your registration.

We collect and process your information based on the
lawful basis described below:

- To fulfill a contract with you, such as to provide
  a College Board test or a test offered by another
  company on behalf of College Board.

- We may provide Personal Information to our
  subcontractors (processors) and other trusted
  businesses or persons to process it for us, based
  on our instructions and in compliance with our Privacy
  Policy and any other appropriate confidentiality
  and security measures. For example, we use service
  providers to help process and score our tests; to
  process a payment, to create an account on our
  website, and for website management.

- With your consent, to send you marketing email
  communications or to send your scores to your
  designated recipients.

We may also process your Personal Information for the
purposes of our legitimate interests, provided that such
processing shall not outweigh your rights and freedoms.
In particular, we may process your Personal Information
as needed to:

(i) Protect you, us, or others from threats (such as
    security threats or test fraud); (ii) Improve College
    Board tests and support College Board research
    initiatives; (iii) Comply with the laws that are applicable
to us around the world; (iv) Enable or administer our
business, such as for quality control, consolidated
reporting, and customer service; (v) Manage corporate
transactions, such as mergers or acquisitions; and (vi)
Understand and improve our business, improve test
integrity, and for research purposes.

Automated Decision Making and Profiling
College Board may use automated processes in
connection with scoring tests and for similar purposes,
as needed to provide the test services that you have
requested. All such decisions are subject to human
review. We will not make automated decisions about you
that may significantly affect you, unless (a) the decision
is necessary as part of a contract that we have with you,
(b) we have your explicit consent, or (c) we are required by
law to use the technology. You can learn more about test
scoring by reading the information posted on our website
about each of our tests and in the Research section of our
website research.collegeboard.org.

Your Rights
You always have the right to object to our marketing
communications. To opt out of emails, simply click the
link labeled unsubscribe at the bottom of any email we
send you.

EU residents also have the right to access, correct, and
request erasure or restriction of their Personal Information
as required by law. This means you have a right to know
whether or not College Board maintains your Personal
Information. If we do have your Personal Information,
we will provide you with a copy (subject to the rights of
others). If your information is incorrect or incomplete, you
have the right to ask us to update it. You may also ask us
to delete or restrict your Personal Information.

To exercise these rights, please contact us via email at
eucustomerservice@collegeboard.org or write to us at
the U.S. address on the inside front cover of this guide,
and a member of our customer service team will assist
you. Please understand that we may need to verify your
identity before we can process your request. Additionally,
our ability to delete Personal Information will be limited
in those cases where we are required to retain records,
such as in connection with score reports and test security
processes.

If you believe that we have processed your Personal
Information in violation of applicable law, you may file a
complaint with College Board Office of General Counsel
or with a supervisory authority.

Data Retention
We will retain your Personal Information for as long
as the information is needed for the purposes set
forth above and for any additional period that may be
required or permitted by law. You may request that
we delete your Personal Information by contacting us via email at eucustomerservice@collegeboard.org. Unless we are required by law or have a legitimate interest to retain your information, we will delete it within 30 days of your request.

**College Board Alerts SMS Terms and Conditions**

If you provide your mobile number to College Board, we will use it only for the purposes outlined in Protecting Your Privacy: Use of Student Information.

- To discontinue receiving SMS messages from College Board Alerts, text STOP to 70801, or you can call Customer Service. Message and data rates may apply.
  - For a request to unsubscribe, you will receive one (1) final message from College Board confirming that you have been unsubscribed in our system.
  - Following such confirmation message, no additional text messages will be sent unless you reactivate your subscription, which you can do by texting STUDENTJOIN or PARENTJOIN to 70801.
- For additional help, text HELP to 70801 or contact socialmediasupport@collegeboard.org.
- Compatible Carriers are listed under Communications from College Board and Opt-In Choices at collegeboard.org/privacy-policy/privacy-statement.

**Grounds for Score Cancellation**

College Board and ETS (referred to together in these terms as “we” or “our”) reserve the right to dismiss test takers, decline to score any test, and/or cancel any test scores when, in our sole judgment, as applicable, a testing irregularity occurs; there is an apparent discrepancy in the test taker’s identification; a test taker is improperly admitted to the test site; a test taker has engaged in misconduct (see “Misconduct” later in this section); based on a test taker’s testing history, the validity of the score is suspect; or the score is deemed invalid for another reason, including, but not limited to, discrepant handwriting, unusual answer patterns, or plagiarism. Pending investigations are kept confidential, but results of completed investigations may be communicated to intended score recipients, including if such investigation indicates attempts to gain an unfair advantage in any way, including but not limited to impersonation, use of prohibited items, or attempts to send/receive test content. We strive to protect the privacy of test takers whose scores are questioned. However, if the test taker publicizes the investigation, we reserve the right to make details of such investigation public.

When, for any of these reasons, we cancel a test score that has already been reported, we’ll notify score recipients that the score was canceled, but we won’t disclose the reason for cancellation unless authorized to do so by the test taker, unless there is suspected impersonation, unless in certain cases that affect a group of test takers, or unless where required by law.

**Testing Irregularities** Testing irregularities refer to problems or irregular circumstances or events associated with the administration of a test; they may affect an individual or groups of test takers.

Such problems include, without limitation, administrative errors (e.g., improper timing, improper seating, accommodations not approved by College Board, defective materials, and defective equipment), evidence of possible preknowledge of secure test content, and disruptions of test administrations such as natural disasters and other emergencies.

When testing irregularities occur, we may cancel an administration or individual tests, decline to score all or part of the test, or cancel the test score. We may do so whether or not the affected students caused the testing irregularities, benefited from them, or engaged in misconduct. We are solely responsible for determining whether testing irregularities have occurred, and our decisions are final. When appropriate, we give affected test takers the opportunity to take the test again within a reasonable timeframe as soon as possible, without charge. This is the sole remedy available to test takers as a result of testing irregularities. Students and parents may not review scores from the affected administration before choosing the option of taking a makeup test. See Makeup Testing later in this guide for more information.

**Identification Discrepancies** When, in the judgment of ETS or testing staff, there is a discrepancy in a test taker’s identification, the test taker may be denied admission to or dismissed from the test site; in addition, ETS may decline to score the test, or immediately cancel the test score.

**Misconduct** When, based upon observations during an administration or a review of evidence thereafter, College Board, ETS, or testing staff find misconduct in connection with a test, the test taker may be dismissed from the test site, or we may decline to score the test or may cancel the test score. Infractions during the test may result in dismission from the test site, score cancellation, or being banned from taking College Board assessments, including AP, SAT, and SAT Subject Tests.
Misconduct includes, but is not limited to:

- Taking any test questions or essay topics from the testing room, including through memorization, giving them to anyone else, or discussing them with anyone else through any means, including, but not limited to, email, text messages, social media, or the internet.
- Improperly accessing the test, a part of the test, or information about the test, or the test site.
- Referring to, looking through, or working on any test, or test section in the test book or answer sheet, other than during the testing period for that test or test section.
- Referring to, or looking through, any test or test section while leaving the answer sheet blank.
- Attempting to give or receive assistance, including by copying or through the use of an answer key.
- Discussing or sharing of test content during the test administration, during breaks, or after the test.
- Communicating with other test takers in any form while testing is in session in the testing room.
- Using or accessing any prohibited devices or aids such as, but not limited to, cell phones, smartphones, smartwatches, other oral or written communication devices or wearable technology, cameras, notes, and reference books, etc., during or in connection with the test, including during breaks.
- Failing to turn in a cell phone during the test site’s collection process (if applicable) or disrupting testing by a cell phone making noise.
- Sharing or other misuse of equipment, including using a calculator on a test or test section you’re not allowed to use calculators for.
- Consuming food or drink in unauthorized areas.
- Leaving the test room without permission.
- Leaving the building at any time during the test administration, including during breaks.
- Attempting in any manner to remove from the test room any part of a test book or any notes relating to the test.
- Attempting to take the test for someone else or attempting to have someone else impersonate you to take the test.
- Disturbing others or refusing to follow instructions given by testing staff.
- Refusing to follow any of the test administration regulations contained in this guide or given by the testing staff.

Testing History Based on a test taker’s testing history, their scores may be canceled without applying procedures normally used for students as explained in the “Invalid Scores” section. College Board reserves the right to report a test taker’s testing history to institutions that inquire as part of a test security investigation.

Invalid Scores We may also cancel scores if there is substantial evidence that they’re invalid for any other reason. Evidence of invalid scores may include, without limitation, plagiarism, discrepant handwriting, unusual answer patterns, text similar to that in other essays, paraphrasing of text from published sources, and essays that aren’t independent compositions.

Before canceling scores under this “Invalid Scores” section, we notify the test taker in writing (via email if possible) about our concerns, let the test taker submit information addressing them, and consider any information submitted. If substantial evidence still exists that the scores aren’t valid, we offer the test taker options that may include voluntary score cancellation, a free retest under closely monitored conditions, or arbitration in accordance with ETS’s standard Arbitration Agreement. When notifying the test taker, we send a copy of the booklet Why and How Educational Testing Service Questions Test Scores, which explains this process in greater detail. (Any test taker may request a copy of this booklet at any time.) Notification of the concern may be made via email if an email address is available. If no action is taken by the test taker, though, the scores will be canceled.

If at any time before, during, or after a review of questionable scores we find that test misconduct has occurred, we may treat the matter under our misconduct procedures; in that case, the options just described under this “Invalid Scores” section or the “Testing Irregularities” section, as applicable, will not be available, even if those options were previously offered. We have sole discretion in determining whether to treat potential testing violations under this section or the “Misconduct” section earlier in this guide.

Suspected Impersonation In cases where we believe that someone other than the intended test taker took the test for the intended test taker, and in other cases where required or permitted by law, we may refer the matter to law enforcement and inform the intended test taker’s parent(s), legal guardian(s), high school, colleges, and other institutions to which the intended test taker requested scores be sent. The intended test taker specifically acknowledges, and agrees to, such disclosure.
Reporting Misconduct or Suspicious Behavior

All SAT tests are administered under strict supervision and security measures. To report any suspected violation of our Test Security and Fairness policies, or any suspicion concerning the security of an SAT test administration, please contact the Office of Testing Integrity by phone at 609-406-5430 between 7:30 a.m. and 5:30 p.m. Eastern Time, by fax at 609-406-9709, or by email at testsecurity@info.collegeboard.org as soon as possible. All information will be held strictly confidential unless required to disclose it by law.

Reporting Violations

If we find that you have gained or attempted to gain or share an unfair advantage on any College Board test, we reserve the right to share this information with your high school, any other score recipients, law enforcement, and any other government agencies in the U.S. or abroad.

Makeup Testing

During bad weather, natural disasters, power outages, or other unusual conditions, test sites may be closed. The following policies apply to makeup testing:

- The availability of makeup testing and the conditions that make test takers eligible to take a makeup test are at the sole discretion of College Board.
- Waitlist registrants are not eligible to take a makeup test.
- You must take the entire SAT or SAT with Essay at a makeup test.
- Access to scores from makeup administrations may be delayed by several weeks.
- The Question-and-Answer Service (QAS) isn’t offered for makeup tests, even if QAS was available for the original test date. (QAS is a Student Answer Service.)

Additional terms and conditions may apply to your makeup test.

Verifying Your Scores

Score verification services include the Student Answer Services for the SAT, explained at sat.org/verify-scores. You can request a more comprehensive multiple-choice hand-score verification or essay score verification or both, up to five months after the test date, by printing and completing a Request for SAT Score Verification form, available online at sat.org/verify-scores. Read the information on the form carefully before deciding to request this service. There is a fee for this service. Test takers who qualify for income-eligible benefits may have these fees reduced or waived.

Score Reporting

Score reports will be automatically sent to your high school and to the institutions you choose when you take the test.

- The colleges that you choose to receive score reports will have access to a copy of your essay if you took the SAT with Essay.
- Each time you take the SAT or SAT with Essay, the scores are added to your College Board record. All of your scores are reported to your high school.
- You can order additional score reports. They’ll be sent to your designated colleges a few weeks after the request is received.
- If you want to change where your scores are sent, you have until 9 days after the published test date to alter your 4 free score reports at no charge. After that, you’ll be charged the additional score report request fee for any added or changed report requests.

We keep your full score history on file, and we cannot delete specific scores from your record. For requests to have a permanent College Board student record removed, you must call Customer Service or write to College Board, Attention Customer Service.

See SAT Terms and Conditions earlier in this guide for information about canceling scores before they’re reported.

Delayed Scores

Scores can be delayed for various reasons; we will notify you if your scores are subject to any unusual delays. If your score report isn't available online when expected, you should check back the following week. If you have not received your online report by two weeks after the score release date (usually 20 days after the test date), contact Customer Service by phone or email.

Missing Scores

If previous scores are missing from your score report, write to:

College Board SAT Program
Attention: Unreported Scores
P.O. Box 025505
Miami, FL 33102.

Provide identification information, test dates, and previous score recipients to which you want updated reports sent. Reports that can be located will be sent at no charge and included in future requests.

In certain college and university systems, once you submit your score to one school, other schools within that system will also have access to your score. Please note, however, that if you are applying to more than one school within a college or university system, it is still important for you to send your SAT scores to
each individual school. If you are not sure whether the specific school you are applying to is part of such a system, contact the school's admission office.

Additionally, if you have decided to participate in Student Search Service, colleges and universities may identify you to provide you with materials about college admission and financial aid. Student Search Service does not report your course grades, test scores, or phone numbers to these organizations, but organizations can request student information based on a variety of criteria, which may include score range or other variables such as geographical location or expressed interests.

Score Choice College and scholarship program—specific SAT score-use practices referenced in Score Choice materials are based on information provided to us by each participating college or scholarship program.

The description of a particular SAT score-use practice in the Score Choice materials might not include every aspect of how a college or scholarship program uses a student's score for admission decisions; additionally, SAT score-use practices for a particular college or scholarship program may change periodically and may not be automatically updated in Score Choice. We recommend that you verify the SAT score-use practices of the colleges or scholarship programs you're sending your scores to.

We're not responsible for the accuracy of the information or the consequences of your decisions.

Your high school will continue to have access to all of your scores.

Scholarships The SAT Program automatically reports scores and identifying information (including email address) for Presidential Scholar consideration for test takers in all states, the District of Columbia, U.S. territories, and Puerto Rico, and for U.S. citizens abroad so you don’t have to use one of your free score reports.

Releasing Your Scores to the New York State Scholarship Program (NYSSP) The NYSSP requires that New York State students who wish to be considered for the Robert C. Byrd Honors Scholarships and Regents Scholarships at Cornell University on the basis of their SAT scores take the SAT before Nov. 1, 2019. The latest SAT School Day administration date that meets this deadline is Oct. 9, 2019.

The New York State Standardized Testing Law requires that you specifically authorize the sending of all reports. Your SAT scores and other information from your record will be sent to the scholarship program if you authorize the release of your scores when you apply for a scholarship. To do that, answer “yes” and sign the score release statement in the scholarship application. There’s no fee when your report is sent to the NYSSP. Scholarship application forms are sent by the State Education Department to principals of all high schools in New York State in December or January.

College Board releases to the NYSSP the names, addresses, and other identifying information of seniors who registered to take the SAT prior to Nov. 1, 2019, who are New York State residents, and who applied for scholarship(s). This procedure facilitates the matching of student files so that scores for all students who authorized their release are sent to the NYSSP. If you don’t want your name and address released for this purpose, notify

College Board SAT Program
NYS Scholarship Program
P.O. Box 025505
Miami, FL 33102.

Students Testing in California and New York State

The California Education Code requires that you be given certain information about the purposes of the tests, property rights of the test subject and test agency to the test scores, procedures for releasing score reports, and score interpretation.

Statistical information related to the use of test scores in predicting future grade point averages must be provided to test takers prior to the administration of the test or coinciding with the initial reporting of test scores.

The New York State Standardized Testing Law requires that certain information concerning the purposes of the test, property rights of the test taker and test agency to the test scores, test fairness and equity, procedures for releasing score reports and for reviewing challenges about test questions, and score interpretation be given to test takers along with the score report.

The information for both California and New York State test takers is furnished in this SAT School Day Student Guide and in the materials included with score reports. Complete descriptions of the content of the tests, along with information on test preparation and sample questions, are also provided in this guide.

See how to request SAT Answer Verification Services: Question-and-Answer Service (QAS) and Student Answer Service (SAS) at sat.org/verify-scores. In addition, students who took the SAT in California in December 2019 can review the test questions under secure conditions at the ETS Western Field Office in Concord, Calif., by calling 925-808-2000.

Predicting College Grades The main purpose of the SAT is to determine how prepared students are to succeed, both in college and in career training
programs. Because the SAT assesses the content that research shows matters most for college and career readiness, SAT scores provide meaningful information about a student's likelihood of success in college. But the SAT should not be used as the sole source of information for high-stakes decisions.

A pilot predictive validity study was conducted in the fall semester of 2014 to give colleges and universities information about the relationship between the SAT and college grades. Under standardized conditions 2,050 first-time, first-year students across 15 four-year institutions were administered a pilot form of the redesigned SAT. First-year college performance data—courses taken and grades in those courses—for those students provided by the institutions in June 2015 inform the relationship of the predictive validity of redesigned SAT scores. Results of this research indicate that SAT scores, in combination with a student's high school GPA, predict freshman GPA more accurately than SAT scores or high school GPA alone. For the students in the study, the multiple correlation between both SAT scores and high school and freshman GPA is 0.58. The correlation between the Evidence-Based Reading and Writing section scores and freshman GPA is 0.51, and between the SAT Math section scores and freshman GPA is 0.49. For both sections (SAT Evidence-Based Reading and Writing and SAT Math) the correlation with freshman GPA is 0.53, while the correlation between high school GPA and freshman GPA is 0.48.

The combination of SAT scores and high school GPA raised the correlation 0.05 over SAT scores alone, and 0.10 over high school GPA alone. All correlations are adjusted for restriction of range to account for enrolled students' narrower band of scores as compared to the wider range of scores observed in an applicant pool.

College Board is committed to maintaining and improving the high level of technical quality of the SAT as well as its rigorous validity research agenda. The results of ongoing research into the redesigned SAT will be released as they become available. Find out more at sat.org.

Procedures to Ensure Fairness and Equity All SAT Program test questions and editions of the tests are reviewed by external, independent educators from throughout the United States. These reviews help ensure that wording and content are unambiguous and relevant and that the language used is not offensive to or inappropriate for any particular group of students based on race/ethnicity or gender. The test as a whole includes references to men and women, as well as to individuals from varied racial, ethnic, and cultural backgrounds. Questions that were statistically harder than expected for a particular group of students to answer correctly based on their performance on other items in the test are excluded from the tests.

Relationship of SAT Scores to Family Income
College Board no longer collects information regarding family income from test takers. Past data indicate that students from every income level obtain a full range of SAT scores.
Show up ready on test day.

The best way to get ready for the SAT® is here for everyone—Official SAT Practice from the College Board and Khan Academy®. It’s free, personalized, and the only online practice tool from the makers of the test. It’s the best way to prepare, period. Sign up today.