

PSAT/NMSQT[®]

Understanding Scores 2016

Preliminary SAT/National Merit Scholarship Qualifying Test
cosponsored by

 CollegeBoard /  NATIONAL MERIT
SCHOLARSHIP CORPORATION

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About the College Board

The College Board is a mission-driven not-for-profit organization that connects students to college success and opportunity. Founded in 1900, the College Board was created to expand access to higher education. Today, the College Board's membership 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, the 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.

About the PSAT/NMSQT®

The Preliminary SAT/National Merit Scholarship Qualifying Test (PSAT/NMSQT) is cosponsored by the College Board and National Merit Scholarship Corporation (NMSC). It is administered for the College Board and NMSC by Educational Testing Service (ETS).

About the National Merit® Scholarship Program

The PSAT/NMSQT is the route of entry to the National Merit Scholarship Program, an academic competition conducted by National Merit Scholarship Corporation (NMSC). Requirements for participation, steps in the competition, and awards offered are explained in the *PSAT/NMSQT Student Guide* and on NMSC's website. Further information is provided in the *Guide to the National Merit Scholarship Program*. Questions about the scholarship program not answered in the published materials should be directed to NMSC:

National Merit Scholarship Corporation
1560 Sherman Avenue, Suite 200
Evanston, IL 60201-4897
847-866-5100
www.nationalmerit.org

Contacts for Students and Parents

- ✉ psathelp@info.collegeboard.org
- ☎ 866-433-7728
+1-212-713-8105 (International)
609-882-4118 (TTY)
8 a.m. to 4 p.m. ET, Mon.–Fri.

General Contacts

- 📍 PSAT/NMSQT
P.O. Box 6720
Princeton, NJ 08541-6720
610-290-8979

Contacts for Educators

- ✉ psat/nmsqt@info.collegeboard.org
- ☎ 888-477-PSAT (7728)
for educators only
+1-212-237-1335 (International)
609-882-4118 (TTY)
8 a.m. to 7 p.m. ET, Mon.–Fri.

The PSAT/NMSQT[®] and the SAT[®] Suite of Assessments

What is the SAT[®] Suite of Assessments?

The SAT[®] Suite of Assessments is a group of assessments beginning with PSAT[™] 8/9 (grades 8 and 9), continuing through PSAT[™] 10 and PSAT/NMSQT[®] (grades 10 and 11), and culminating in the SAT (grades 11 and 12). Together, these assessments measure a student's college and career readiness from grades eight through 12. The SAT Suite provides a comprehensive solution that systematically and progressively measures the knowledge, skills, and understandings that are essential for success in college and career. The tests reflect the kinds of meaningful, engaging, and challenging work that students find in the best middle and high school courses taught today, creating and sustaining a durable bond between assessment and instruction that provides the backbone of a sound education.

What does the PSAT/NMSQT[®] measure?

The PSAT/NMSQT measures the knowledge and skills that research shows are the most essential for college and career readiness and success. The assessment includes the Reading Test, the Writing and Language Test, and the Math Test. A student's scores on the Reading Test and the Writing and Language Test are combined to arrive at a section score for Evidence-Based Reading and Writing.

The Math Test score is also reported as a second section score. For complete test specifications, visit sat.org/k12.

How is the PSAT/NMSQT scored?

First, the student's raw score is computed as the number of questions correctly answered. The scores included on score reports are based on raw scores. There's no penalty for guessing, so

nothing is deducted for incorrect answers or for unanswered questions.

Next, the raw score is converted to a scaled score of 160 to 760. This conversion process adjusts for slight differences in difficulty among versions of the test and provides a score that is equated, or consistent, across forms. This process ensures that no student receives an advantage or disadvantage from taking a particular form of the test on a particular day; a score of 400 on one test form is equivalent to a score of 400 on another test form.

How can I use the student score report?

The student score report is designed to both clearly summarize the student's current achievement levels and to help guide and encourage appropriate next steps to increase college and career readiness. As you look through the reports with your students, here is some information you will want to share:

Check-in: On Track for College Readiness?

- Grade-level benchmarks allow students and educators to understand how students are progressing toward college readiness.
- Use benchmark attainment, provided for each section score, to have a conversation with your students about college readiness and the sort of continued work they need to start doing now to prepare for college success.
- If you have a student who is right on track, remind that student to continue to take rigorous courses and work hard to stay on track.
- If you have a student who is not meeting the benchmark, connect the student to classroom work that is focused on areas of weakness, and connect the student with Khan Academy[®] to supplement this work.

Evaluate relative strengths and weaknesses:

- Test scores, cross-test scores, and subscores provide an opportunity to evaluate a student's relative strengths and weaknesses and highlight specific opportunities to strengthen the student's college readiness skills.
- Use the red/yellow/green coding on test scores and subscores to evaluate how your student is performing relative to other students who are meeting/exceeding the benchmark.
- Highlight the areas in green as the student's strengths.
- Prioritize the areas that are furthest into the red for additional instruction and deliberate practice.

Define next steps—actions to support skills:

- The "Your Scores: Next Steps" page identifies the specific skills that the student should address.
- Work with your student to identify activities that could be used to develop each of the skills identified for focus and improvement.
- Encourage your student to go online for more details, and link the student's College Board account to Khan Academy to strengthen skills and to evaluate progress against the skills listed.

For further guidance on interpreting score reports, see the Professional Development modules for K–12 educators at sat.org/k12.

New score-reporting features

On pages 15–16 of this booklet, you'll find an annotated sample score report that includes detailed explanations of the information that students receive about their college readiness skills. Students can access their online reports to obtain more information and guidance, including powerful Khan Academy instruction and practice based on their results.

In addition, k12reports.collegeboard.org, the online reporting portal, offers you an array of powerful tools to assess your students' progress and plan instruction that delivers what they need. The tools include:

- Flexible reports that can be sorted and filtered by key demographics
- Instructional planning support using test subscores in specific content areas, benchmarks, information for cross-subject tasks, and data for prescribing interventions when students are behind or ahead
- Access to the AP Potential™ tool to pinpoint students who are likely to succeed in more challenging courses

PSAT/NMSQT Scores

PSAT/NMSQT total scores

The total score shown in the report reflects the combination (sum) of the Evidence-Based Reading and Writing section score (160–760) with the Math section score (160–760). The total score reported range for the PSAT/NMSQT is 320–1520. The nationally representative percentiles shown on paper score reports have been derived from a research study. (See page 6 for more information about percentiles.)

PSAT/NMSQT section scores

Your students will receive two section scores, both in the range of 160–760:

- Evidence-Based Reading and Writing
- Math

These scores reflect students' overall performance in each section. The Evidence-Based Reading and Writing section score is a combination of the Reading Test score and the Writing and Language Test score. The Math section score is derived from the Math Test score (including both the Math Test–Calculator and Math Test–No Calculator portions).

PSAT/NMSQT test scores and cross-test scores

In addition to the total and section scores, students will see three test scores in the range of 8–38, reflecting performance on the content covered in each of the tests:

- Reading
- Writing and Language
- Math

Students will also see two cross-test scores in the range of 8–38. These scores represent student performance on items across the three tests that were in the domains of either:

- Analysis in History/Social Studies
- Analysis in Science

PSAT/NMSQT subscores

Finally, students receive subscores in the range of 1–15 that offer feedback on their performance in the following skill areas:

- Command of Evidence
- Words in Context
- Expression of Ideas
- Standard English Conventions
- Heart of Algebra
- Problem Solving and Data Analysis
- Passport to Advanced Math

Standard Error of Measurement

PSAT/NMSQT scores should be interpreted as ranges rather than points. The standard error of measurement (SEM) indicates that a student who took different forms of the test under identical conditions would be likely to earn scores within the range of the standard error of measurement on those different forms. The standard error of measurement is 46.25 for the total score, 26.24 for the Evidence-Based Reading and Writing section score, and 38.08 for the Math section score.

Relating current scores to pre-2015 test scores

The redesigned PSAT/NMSQT is a different test than those administered prior to 2015; therefore, a numerical score on one test will not be equivalent to the same numerical score on the other. Further, the score scale has changed so that all redesigned assessments are on the same vertical scale. To help educators understand current and redesigned PSAT/NMSQT scores in relation to one another, the College Board has provided a concordance that shows how to relate the scores. The concordance tables can be found on the College Board's website at psat.org/resources.

Score Scales and Score Changes

How can PSAT/NMSQT scores be used to project SAT scores?

The full SAT Suite—from PSAT 8/9 through the SAT—uses a common score scale for the total, section, test, and cross-test scores. The ranges reported for each assessment reflect grade-level appropriateness within the common scale. Thus, while the total range for SAT is 400–1600, the total range for PSAT/NMSQT is 320–1520.

This common score scale means that a student who took the PSAT/NMSQT and received a Math section score of 500 would be expected to also get a 500 on the SAT or PSAT 8/9 if they had taken either of those tests on that same day; a score of 500 represents the same level of academic achievement on all three assessments.

This also means that student growth is easy to see across the full suite. If a student takes the PSAT/NMSQT this year and receives a 500 Math section score, and then takes the SAT next year and earns a 550 Math section score, that student has shown a growth of 50 points, which likely resulted from hard work both in and out of school.

The total, section, test, and cross-test scores have been vertically scaled to allow the accurate measurement of growth from test to test. Encourage students who are curious about what

they can expect to see in terms of growth in their scores over the next year to focus on the section scores. They should look at the set of projected score ranges we have provided in online score reports for students that reflect typical growth. Of course, a student's individual growth will be shaped by the courses taken and the practice the student undertakes between assessments.

Subscores are not on a vertical scale, and therefore comparing performance year after year should be based on relative performance rather than by calculating student growth across tests.

Students who wish to improve their performance on the SAT should:

- Develop academic skills through challenging course work.
- Read extensively and develop strong writing skills.
- Engage in deliberate practice in the three math areas that are emphasized the most in the assessments.
- Link to Khan Academy from their score report (studentscores.collegeboard.org) for personalized practice of the skills they need to improve.

Benchmarks and Red/Yellow/Green Performance

What are the PSAT/NMSQT college and career readiness benchmarks?

The SAT Suite offers grade-level benchmarks that can be used to gauge whether students are on track for becoming college ready each year from grades 8–12. College and career readiness benchmarks represent the section scores on each assessment that students should meet or exceed to be considered on track to be college ready.

The PSAT/NMSQT reports separate benchmarks for tenth and eleventh graders to help students understand their level of readiness for college and career training programs. The benchmarks help educators better understand how many students and also which students are on track to have the skills necessary for college-entry, credit-bearing courses. Equipped with this information, educators can support students who need extra help while there is still time for improvement. Teachers can also accelerate the progress of students who meet or exceed the benchmarks.

Recommended Uses

College and career readiness benchmarks can help educators:

- Identify students who are on track for success in college and career readiness.
- Identify students who may need extra support while there is still time for improvement.
- Find students who may be ready for more challenging course work.

College and career readiness benchmarks should not be used to assign academic tracks, to discourage students from pursuing college, or to keep students from participating in challenging courses. Rather, the benchmarks are to be used to help all students better prepare for life after high school by taking courses that are aligned with their progress thus far and engaging in deep practice of the knowledge and skills that matter most for college.

How are the benchmarks calculated?

The preliminary college and career readiness benchmarks for the 2016-17 SAT predict a 75 percent likelihood of achieving at least a C in a set of first-semester, credit-bearing college courses. The benchmarks are set at the section level, so there is a benchmark for Evidence-Based Reading and Writing and a benchmark for Math.

The PSAT/NMSQT, PSAT 10, and PSAT 8/9 benchmarks are determined by observing how students grow from year to year and by adjusting the SAT benchmark using the average rate of progress.

PSAT/NMSQT COLLEGE AND CAREER READINESS BENCHMARKS		
	Evidence-Based Reading and Writing	Math
10th Grade PSAT/NMSQT	430	480
11th Grade PSAT/NMSQT	460	510

What additional information is provided to help understand progress toward college readiness?

The student score report provides further context for understanding scores by showing a color-coded bar chart for the section scores. For students who met or exceeded the benchmark, the score will be in the green portion of the score band. If students did not meet the benchmark but were close (within one year's growth), the score will be found in the yellow portion. Students who have a score more than a year's growth below the grade-level benchmark will see their score in the red portion of the score band. Additionally, for each of the test scores and subscores, we have provided a color-coded guide to a student's relative strengths and weaknesses. The colors on each of these score scales represent the typical performance of students in their grade who met (green), approached (yellow), or were further away (red) from the benchmark.

Percentiles

Percentile ranks represent the percentage of students who score equal to or below the score the student obtained. For the total scores and the section scores, percentile ranks are provided based on two different reference populations. On both the paper and online score reports, students receive a nationally representative percentile rank. On the online score report, students also receive a user group percentile rank based on typical test takers.

Nationally representative percentiles are derived via a research study sample of U.S. students in the student's grade (10th or 11th), weighted to represent all U.S. students in that grade, regardless of whether they typically take the PSAT/NMSQT or the PSAT 10. For example, a student's score in the 75th percentile means that 75 percent of the nationally representative group of U.S. students in the same grade would have had scores at or below that student's score.

User group percentiles are based on the actual performance of test takers on the PSAT/NMSQT and PSAT 10 administered in 2015-16.

Percentiles for total scores

Converted Total Score	10TH GRADE		11TH GRADE	
	PERCENTILES		PERCENTILES	
	National Representative Sample	PSAT/NMSQT and PSAT 10 User: National	National Representative Sample	PSAT/NMSQT and PSAT 10 User: National
1520	99+	99+	99+	99+
1510	99+	99+	99+	99+
1500	99+	99+	99+	99+
1490	99+	99+	99+	99+
1480	99+	99+	99+	99+
1470	99+	99+	99+	99
1460	99+	99+	99+	99
1450	99+	99+	99+	99
1440	99+	99+	99+	98
1430	99+	99+	99+	98
1420	99	99	99	98
1410	99	99	99	97
1400	99	99	99	97
1390	99	99	99	97
1380	99	99	99	96
1370	99	99	99	96
1360	99	99	98	95
1350	98	98	98	95
1340	98	98	98	94
1330	98	98	97	94
1320	98	98	97	93
1310	97	97	97	93
1300	97	97	96	92
1290	97	97	96	91
1280	97	97	95	91
1270	96	96	95	90
1260	96	96	94	89
1250	95	95	94	88
1240	95	95	93	87
1230	94	94	92	86
1220	94	94	92	85
1210	93	93	91	84
1200	92	92	90	83
1190	91	92	89	82
1180	91	91	88	81
1170	90	90	87	79
1160	89	89	86	78
1150	88	88	85	76
1140	87	87	84	75
1130	86	86	83	73
1120	84	85	82	72
1110	83	83	81	70
1100	82	82	79	68
1090	81	81	77	67
1080	79	79	76	65
1070	78	78	74	63
1060	76	76	73	61
1050	75	75	70	59
1040	73	73	68	57

Converted Total Score	10TH GRADE		11TH GRADE	
	PERCENTILES		PERCENTILES	
	National Representative Sample	PSAT/NMSQT and PSAT 10 User: National	National Representative Sample	PSAT/NMSQT and PSAT 10 User: National
1030	71	72	65	56
1020	69	70	63	54
1010	67	68	61	52
1000	65	66	59	50
990	63	65	57	48
980	62	63	55	46
970	60	61	53	44
960	58	59	51	42
950	56	57	48	40
940	54	55	46	38
930	52	53	44	37
920	50	51	42	35
910	48	49	39	33
900	46	47	37	31
890	44	45	35	29
880	42	43	33	28
870	40	40	31	26
860	38	38	29	24
850	36	36	28	23
840	33	34	26	21
830	31	32	24	19
820	28	30	21	18
810	26	27	20	16
800	24	25	18	15
790	22	23	15	13
780	19	21	14	12
770	17	19	12	11
760	15	17	10	10
750	13	15	8	8
740	11	13	8	7
730	9	11	7	6
720	8	10	5	5
710	6	8	3	5
700	5	7	2	4
690	4	6	2	3
680	3	5	1	3
670	2	4	1	2
660	2	3	1-	2
650	1	3	1-	2
640	1	2	1-	1
630	1	2	1-	1
620	1	2	1-	1
610	1-	1	1-	1
600	1-	1	1-	1
590	1-	1	1-	1
580	1-	1	1-	1
570	1-	1	1-	1-
560	1-	1	1-	1-

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Converted Total Score	10TH GRADE		11TH GRADE	
	PERCENTILES		PERCENTILES	
	National Representative Sample	PSAT/NMSQT and PSAT 10 User: National	National Representative Sample	PSAT/NMSQT and PSAT 10 User: National
550	1-	1	1-	1-
540	1-	1-	1-	1-
530	1-	1-	1-	1-
520	1-	1-	1-	1-
510	1-	1-	1-	1-
500	1-	1-	1-	1-
490	1-	1-	1-	1-
480	1-	1-	1-	1-
470	1-	1-	1-	1-
460	1-	1-	1-	1-
450	1-	1-	1-	1-
440	1-	1-	1-	1-
430	1-	1-	1-	1-
420	1-	1-	1-	1-
410	1-	1-	1-	1-
400	1-	1-	1-	1-
390	1-	1-	1-	1-
380	1-	1-	1-	1-
370	1-	1-	1-	1-
360	1-	1-	1-	1-
350	1-	1-	1-	1-
340	1-	1-	1-	1-
330	1-	1-	1-	1-
320	1-	1-	1-	1-
Mean Score	939	933	969	1009
Standard Deviation	170	176	168	193

Percentiles for section scores

Converted Section Score	10TH GRADE				11TH GRADE			
	Evidence-Based Reading and Writing		Math		Evidence-Based Reading and Writing		Math	
	PERCENTILES		PERCENTILES		PERCENTILES		PERCENTILES	
	National Representative Sample	PSAT/NMSQT and PSAT 10 User: National	National Representative Sample	PSAT/NMSQT and PSAT 10 User: National	National Representative Sample	PSAT/NMSQT and PSAT 10 User: National	National Representative Sample	PSAT/NMSQT and PSAT 10 User: National
760	99+	99+	99+	99+	99+	99+	99+	99+
750	99+	99+	99+	99+	99+	99+	99+	99
740	99+	99+	99+	99	99+	99+	99+	98
730	99+	99+	99	99	99+	99	99	97
720	99+	99+	99	99	99+	98	99	97
710	99	99	99	99	99+	98	98	96
700	99	99	99	98	99+	97	98	95
690	99	99	98	98	99	96	97	94
680	98	98	98	98	99	95	97	94
670	98	97	97	97	98	93	96	93
660	97	97	97	97	97	92	95	93
650	97	96	96	97	96	90	95	91
640	96	95	96	96	95	89	94	90
630	95	94	95	95	93	87	93	89
620	93	93	95	95	91	85	92	87
610	92	91	94	94	90	83	91	86
600	90	90	92	93	88	80	90	84
590	89	88	91	91	86	78	88	82
580	87	86	89	89	85	75	86	79
570	85	84	86	87	82	72	83	75
560	82	81	84	85	80	69	81	72
550	79	79	82	82	77	65	77	69
540	76	76	79	80	74	62	73	65
530	73	73	76	77	71	58	69	62
520	70	70	72	73	67	55	65	58
510	66	66	69	71	63	51	62	56
500	63	63	66	69	60	47	58	53
490	59	59	62	65	55	44	54	49
480	56	56	57	60	50	41	49	44
470	53	53	52	55	46	37	43	39
460	49	49	49	52	42	34	40	36
450	46	46	46	48	39	31	37	33

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Converted Section Score	10TH GRADE				11TH GRADE			
	Evidence-Based Reading and Writing		Math		Evidence-Based Reading and Writing		Math	
	PERCENTILES		PERCENTILES		PERCENTILES		PERCENTILES	
	National Representative Sample	PSAT/NMSQT and PSAT 10 User: National	National Representative Sample	PSAT/NMSQT and PSAT 10 User: National	National Representative Sample	PSAT/NMSQT and PSAT 10 User: National	National Representative Sample	PSAT/NMSQT and PSAT 10 User: National
440	43	42	40	42	35	28	31	28
430	39	39	36	39	31	26	26	26
420	36	36	31	35	28	23	23	23
410	32	32	26	29	26	20	20	18
400	28	28	23	25	23	18	18	16
390	24	25	19	22	20	15	14	14
380	21	21	15	17	16	13	11	10
370	17	18	12	14	12	10	9	8
360	13	14	10	11	10	8	6	7
350	10	11	7	8	7	6	3	5
340	7	8	5	6	6	5	2	4
330	5	6	3	5	4	3	1	3
320	3	4	2	4	2	2	1	2
310	2	3	2	3	1	2	1-	2
300	1	2	1	2	1-	1	1-	1
290	1-	1	1	2	1-	1	1-	1
280	1-	1	1-	1	1-	1	1-	1
270	1-	1	1-	1	1-	1-	1-	1
260	1-	1-	1-	1	1-	1-	1-	1
250	1-	1-	1	1-	1-	1-	1-	1-
240	1-	1-	1-	1	1-	1-	1-	1-
230	1-	1-	1-	1-	1-	1-	1-	1-
220	1-	1-	1-	1-	1-	1-	1-	1-
210	1-	1-	1-	1-	1-	1-	1-	1-
200	1-	1-	1-	1-	1-	1-	1-	1-
190	1-	1-	1-	1-	1-	1-	1-	1-
180	1-	1-	1-	1-	1-	1-	1-	1-
170	1-	1-	1-	1-	1-	1-	1-	1-
160	1-	1-	1-	1-	1-	1-	1-	1-
Mean Score	468	468	470	464	480	507	489	502
Standard Deviation	94	98	88	92	92	104	88	103

NMSC Selection Index

Reported on a scale ranging from 48 to 228, the Selection Index is calculated by doubling the sum of the Reading, Writing and Language, and Math Test scores. For example, a Reading score of 23, a Writing and Language score of 20, and a Math score of 26.5 would result in a Selection Index of 139 [$2(23+20+26.5)$].

How NMSC uses the Selection Index

The National Merit® Scholarship Program is an annual academic competition among high school students for recognition and college scholarships. The program is conducted by National Merit Scholarship Corporation (NMSC), a not-for-profit organization that operates without government assistance.

NMSC uses the Selection Index score to designate groups of students to receive recognition in the National Merit Scholarship Program. Entry to NMSC's competition for scholarships to be offered in 2018 is determined by students' responses to program entry questions on the 2016 PSAT/NMSQT answer sheet. Both the printed PSAT/NMSQT student score report and the online report show the student's Selection Index, the student's responses to four entry items, and whether the student meets participation requirements. Currently, about 1.6 million test takers meet requirements to enter NMSC's competition each year. Almost all entrants are in their third year (grade 11, junior year) of high school.

Of the 1.6 million NMSC program entrants, about 50,000 will earn 2016 PSAT/NMSQT scores high enough to qualify them for recognition. These students will be notified of their standing through their high schools in September 2017. Students who qualify to continue in the competition for scholarships to be offered in 2018 must then meet academic and other requirements specified by NMSC to be considered for awards.

A detailed description of the National Merit Scholarship Program is published in the Guide to the National Merit Scholarship Program, mailed to high school principals each fall. For students and parents, information about the competition is given in the *PSAT/NMSQT Student Guide* and at www.nationalmerit.org.

For inquiries about any aspect of the National Merit Program—including entry requirements, the selection process, and awards to be offered—contact NMSC directly:

Website: www.nationalmerit.org
Telephone: (847) 866-5100
Address: National Merit Scholarship Corporation
1560 Sherman Avenue,
Suite 200 Evanston, IL 60201-4897

Answer Key

Saturday, Oct. 15, Test Form

Reading Test		Writing and Language Test		Math Test – No Calculator	
SECTION 1		SECTION 2		SECTION 3	
1	C	1	B	1	D
2	A	2	A	2	D
3	B	3	C	3	C
4	A	4	C	4	B
5	C	5	D	5	C
6	D	6	C	6	A
7	B	7	A	7	C
8	D	8	D	8	A
9	B	9	B	9	B
10	B	10	D	10	A
11	A	11	B	11	C
12	C	12	D	12	D
13	D	13	A	13	C
14	B	14	B	14	7
15	C	15	D	15	30
16	A	16	D	16	121
17	D	17	B	17	77/3, 25.6, 25.7
18	D	18	B		
19	C	19	A		
20	A	20	D		
21	B	21	A		
22	D	22	D		
23	C	23	C		
24	D	24	D		
25	D	25	C		
26	B	26	D		
27	B	27	B		
28	C	28	A		
29	B	29	B		
30	D	30	A		
31	B	31	B		
32	C	32	C		
33	D	33	B		
34	C	34	D		
35	A	35	C		
36	A	36	B		
37	D	37	C		
38	D	38	C		
39	A	39	B		
40	D	40	D		
41	B	41	A		
42	C	42	D		
43	C	43	C		
44	D	44	A		
45	C				
46	B				
47	C				

Math Test – Calculator	
SECTION 4	
1	D
2	A
3	C
4	C
5	A
6	D
7	B
8	C
9	C
10	C
11	D
12	B
13	B
14	B
15	C
16	B
17	A
18	B
19	B
20	A
21	B
22	A
23	D
24	C
25	D
26	C
27	D
28	950
29	$12/5 < x < 29/10,$ $2.4 < x < 2.9$
30	3/10, 3
31	3

Wednesday, Oct. 19, Test Form

Reading Test		Writing and Language Test		Math Test – No Calculator	
SECTION 1		SECTION 2		SECTION 3	
1	A	1	C	1	C
2	D	2	D	2	C
3	B	3	C	3	A
4	B	4	B	4	U
5	B	5	A	5	D
6	C	6	C	6	D
7	C	7	C	7	C
8	B	8	D	8	B
9	A	9	A	9	B
10	B	10	C	10	C
11	B	11	B	11	B
12	B	12	B	12	D
13	C	13	D	13	D
14	B	14	B	14	9
15	A	15	A	15	2
16	A	16	B	16	7
17	D	17	B	17	U
18	D	18	B		
19	D	19	D		
20	B	20	D		
21	A	21	B		
22	A	22	C		
23	A	23	B		
24	C	24	A		
25	D	25	C		
26	D	26	B		
27	C	27	A		
28	B	28	D		
29	C	29	D		
30	B	30	D		
31	A	31	A		
32	C	32	D		
33	A	33	A		
34	D	34	B		
35	C	35	B		
36	A	36	B		
37	B	37	D		
38	D	38	D		
39	A	39	A		
40	C	40	D		
41	B	41	C		
42	D	42	D		
43	A	43	B		
44	C	44	C		
45	C				
46	C				
47	B				

Math Test – Calculator	
SECTION 4	
1	B
2	B
3	A
4	B
5	C
6	D
7	B
8	D
9	B
10	C
11	A
12	B
13	A
14	B
15	C
16	D
17	C
18	B
19	A
20	D
21	C
22	A
23	B
24	C
25	B
26	C
27	D
28	6
29	1
30	60
31	33.3

U = This question will not be scored.

Wednesday, Nov. 2, Test Form

Reading Test	
SECTION 1	
1	B
2	A
3	B
4	C
5	A
6	C
7	D
8	B
9	C
10	C
11	A
12	D
13	B
14	B
15	A
16	C
17	D
18	D
19	B
20	B
21	C
22	D
23	B
24	D
25	D
26	B
27	C
28	A
29	B
30	C
31	A
32	D
33	B
34	D
35	A
36	D
37	C
38	D
39	D
40	C
41	B
42	D
43	A
44	A
45	C
46	C
47	A

U = This question will not be scored.

Writing and Language Test	
SECTION 2	
1	A
2	B
3	D
4	A
5	B
6	C
7	C
8	B
9	A
10	B
11	D
12	B
13	A
14	C
15	B
16	C
17	D
18	B
19	A
20	D
21	C
22	C
23	B
24	C
25	A
26	C
27	B
28	C
29	C
30	D
31	D
32	B
33	C
34	D
35	C
36	D
37	B
38	A
39	A
40	D
41	C
42	A
43	D
44	A

Math Test – No Calculator	
SECTION 3	
1	A
2	A
3	U
4	D
5	C
6	D
7	B
8	B
9	A
10	B
11	D
12	C
13	C
14	3
15	1/2, .5
16	12
17	2

Math Test – Calculator	
SECTION 4	
1	D
2	C
3	A
4	D
5	B
6	A
7	B
8	B
9	A
10	C
11	C
12	B
13	A
14	A
15	B
16	D
17	A
18	D
19	C
20	C
21	B
22	A
23	D
24	B
25	D
26	A
27	D
28	180
29	5
30	25.3
31	94

Score Conversion

Shows how raw scores are converted into test scores, cross-test scores, and subscores.

Important to note

- The section score for the Evidence-Based Reading and Writing section is calculated by adding the Reading Test score to the Writing and Language Test score and multiplying that figure by 10.
- The section score for the Math section is calculated by multiplying the Math Test score by 20.
- There is no advantage or disadvantage in taking either the Saturday, Oct. 15, Wednesday, Oct. 19, or Wednesday, Nov. 2, test form.
- Score conversion information for the Nov. 2 test form is available online at psat.org/resources.

Saturday, Oct. 15, Test Form

Raw Score (# of correct answers)	Reading Test Score	Writing and Language Test Score	Math Test Score
48			38
47	38		38
46	38		37.5
45	37		37.5
44	37	38	37
43	36	37	36.5
42	35	37	36
41	35	36	35.5
40	34	35	34.5
39	33	34	34
38	32	33	33
37	31	33	32.5
36	31	32	31.5
35	30	31	31
34	29	31	30.5
33	29	30	30
32	28	30	29.5
31	28	29	29
30	27	29	28.5
29	26	28	28
28	26	28	27.5
27	25	27	27
26	25	27	26.5
25	24	26	26
24	24	26	25.5
23	23	25	25
22	23	25	24.5
21	22	24	24
20	22	24	23.5
19	21	23	23
18	21	22	22.5
17	20	22	22
16	19	21	21.5
15	19	20	20.5
14	18	19	20
13	18	18	19.5
12	17	18	19
11	17	17	18
10	16	16	17.5
9	16	15	16.5
8	15	15	16
7	15	14	15
6	14	13	14
5	13	13	13
4	12	12	12
3	11	11	10.5
2	10	10	9.5
1	9	9	8.5
0	8	8	8

Wednesday, Oct. 19, Test Form

Raw Score (# of correct answers)	Reading Test Score	Writing and Language Test Score	Math Test Score
47	38		
46*	37		38
45	37		37.5
44	36	38	37.5
43	35	38	37
42	35	37	36.5
41	34	36	35.5
40	34	36	34.5
39	33	35	34
38	32	34	33
37	32	33	32.5
36	31	33	31.5
35	30	32	31
34	30	31	30.5
33	29	31	30
32	29	30	29.5
31	28	30	29
30	28	29	28.5
29	27	29	28
28	27	28	28
27	26	28	27.5
26	26	27	27
25	25	27	26.5
24	25	26	26
23	24	26	25.5
22	23	25	25
21	23	25	24.5
20	22	24	24
19	22	23	23.5
18	21	22	23
17	20	22	22.5
16	20	21	22
15	19	20	21
14	19	19	20.5
13	18	18	20
12	17	18	19.5
11	17	17	19
10	16	16	18
9	16	15	17.5
8	16	15	16.5
7	15	14	15.5
6	14	13	14.5
5	13	13	13.5
4	12	12	12.5
3	11	11	11.5
2	10	10	10
1	9	9	9
0	8	8	8

*Due to the unscored questions (see page 12) on the Oct. 19 Test Form, the highest possible Raw Score for Math is 46.

The PSAT/NMSQT[®] Score Report

A Case Study: Ima B. Student's PSAT/NMSQT Score Report

Take a look at Ima B. Student's sample score report below and on the next page. Use the corresponding information to help you interpret your student's PSAT/NMSQT Score Report.

What are Ima's scores?

Ima's Evidence-Based Reading and Writing score is 430 and Math is 530. In Evidence-Based Reading and Writing, Ima's score is approaching the benchmark, but she is not quite on track for college readiness. In Math, however, Ima is exceeding the benchmark and is on track. Test scores, cross-test scores, and subscores can give Ima a better understanding of areas to work on.

What are her score percentiles?

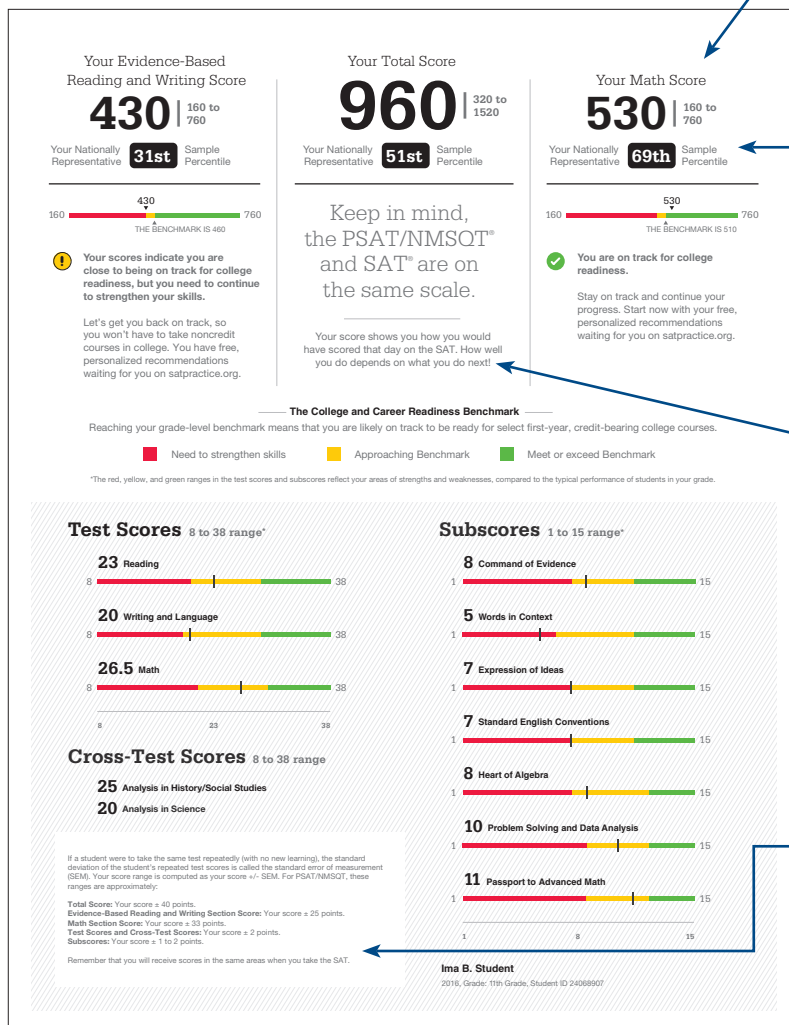
Since Ima is in the 11th grade, the percentiles compare her scores with those of all 11th-graders in the nation. Ima scored as well as or better in Evidence-Based Reading and Writing than 31 percent of a nationally representative group of juniors. In Math, she scored as well as or better than 69 percent of a nationally representative group of juniors. Additional percentiles are available in Ima's online score report.

How will Ima do on the SAT?

The PSAT/NMSQT and SAT are scored on a common scale; therefore, if Ima had taken the SAT instead of the PSAT/NMSQT on the same test date, she would have received the same score. When Ima takes the SAT, she will likely have had additional learning from school and practice. Her PSAT/NMSQT results can help Ima focus her efforts in high school to be better prepared for the SAT.

What are her score ranges?

No test measures precisely what someone knows, and many factors can affect results. That is why test makers think of each score as a range that extends from a few points below to a few points above the score earned.



National Merit Scholarship Corporation

Your NMSC Selection Index
139

Entry Requirements
Information you provided on your answer sheet:
High school student: **YES**
Year to complete high school and enroll full-time in college: **2016**
Years to be spent in grades 9-12: **4**
U.S. Citizenship: **YES**

Eligibility Information
If your Selection Index places you among the 50,000 high scorers who qualify for National Merit Scholarship Program recognition, you will be notified next September.

Your Scores: Next Steps
Additional skills and improvement suggestions can be found in your online score report.

Your score indicates that you are already likely able to:

- Draw reasonable conclusions from somewhat challenging texts
- Describe the overall structure of a somewhat challenging text
- Identify claims and counterclaims explicitly stated in a somewhat challenging passage

Reading Test
23
8 to 38

Improve your skills by focusing on the following suggestions:

- Draw reasonable inferences and logical conclusions from challenging texts
- Analyze information presented quantitatively in such forms as graphs, tables, and charts and relate that information to information presented in somewhat challenging text
- Determine how the selection of specific words shapes meaning and tone in a challenging passage

Writing and Language Test
20
8 to 38

- Revise text as needed to improve the exactness or content appropriateness of word choices within somewhat challenging texts
- Retain or add information or ideas to a piece of a text to support claims or points in challenging text
- Use a variety of sentence structures to accomplish a rhetorical purpose such as persuading an audience
- Revise text as needed to improve the exactness or content appropriateness of word choices within challenging texts

Math Test
26.5
8 to 38

- Interpret a linear inequality in one variable with rational coefficients that represents a context. Select the equation of a line of best fit and interpret the slope and intercept of the line in the context of the situation (when a linear model is appropriate)
- Determine how a graph may be affected by a change to its equation
- Interpret the value of a constant or coefficient for an equation with no solution or infinitely many solutions
- Using a specified model, make a prediction and compare the predicted values with the actual values in the data set
- Within a context, compare the center of two separate data sets with different spreads
- Calculate and interpret frequency distributions using tables and other representative methods
- Determine whether two events are independent given their probabilities

Get more next steps online
studentscores.collegeboard.org

- SAT Practice**
Connect to Khan Academy for FREE, world-class SAT practice on satpractice.org.
- AP and Course Work**
See which AP courses may be good matches for you.
- Register for the SAT**
Select an SAT test date and register for it now.

Ima B. Student 2016 Grade: 11th Grade

Will Ima be able to enter the National Merit® Scholarship Program?

Ima has an NMSC Selection Index of 139, which is double the sum of her Reading Test (23), Writing and Language Test (20), and Math Test (26.5) scores. This index is used by National Merit Scholarship Corporation to designate students to be recognized in its National Merit Scholarship Program.

If an asterisk had appeared next to Ima's score, it would mean she does not meet entry requirements for the program. In this case, Ima meets entry requirements, but her score is not likely to take her further in the competition for awards. For entry requirements and information on how the competition works, see the 2016 PSAT/NMSQT Student Guide or visit www.nationalmerit.org.

How can Ima improve her academic skills?

Your Scores: Next Steps are based on her test scores, and what general skills similarly performing students understand. Ima can see which skills she performed well on and which she needs to improve. When she goes online and logs in to the full report, she can see additional skills and improvement steps. Ima can also link her account to Khan Academy for personalized practice recommendations.

Score Report (Page 2 of 3)

What are Ima's next steps?

Under *Get more next steps online*, Ima is directed to studentscores.collegeboard.org to learn how to prepare for the SAT and see her potential for AP® course work.

When should Ima take the SAT?

As a junior Ima should begin planning when she will take the SAT. Most students take the SAT for the first time in their junior year. By planning now, Ima can ensure she has adequate time to practice for the SAT. She can register for the test and take advantage of practice resources by visiting studentscores.collegeboard.org.

What can we learn from Ima's answers?

Using her score report with her PSAT/NMSQT test booklet, Ima can see the actual questions, correct answers, and difficulty level alongside her own answers. She can use her online score report to review the questions she answered incorrectly or omitted, and to see detailed answer explanations.

Your Question-Level Feedback

Reading						Writing and Language						Math Test-Calculator						Math Test-No Calculator					
Question #	Correct	Your Answer	Difficulty	Subscore	Cross-Test Score	Question #	Correct	Your Answer	Difficulty	Subscore	Cross-Test Score	Question #	Correct	Your Answer	Difficulty	Subscore	Cross-Test Score	Question #	Correct	Your Answer	Difficulty	Subscore	Cross-Test Score
1	A	✓	III	1.0	1.0	1	D	✓	III	SEC	1.0	15	C	✓	III	PSD	1.0	15	C	✓	III	PSD	1.0
2	B	✓	III	1.0	1.0	2	B	✓	III	EDJ	1.0	16	B	✓	III	HQA	1.0	16	B	✓	III	PSD	1.0
3	B	✓	III	1.0	1.0	3	B	✓	III	SEC	1.0	17	D	✓	III	PSD	1.0	17	D	✓	III	PSD	1.0
4	B	✓	III	1.0	1.0	4	C	✓	III	SEC	1.0	18	B	✓	III	HQA	1.0	18	B	✓	III	PSD	1.0
5	C	✓	III	1.0	1.0	5	B	✓	III	SEC	1.0	19	C	✓	III	HQA	1.0	19	C	✓	III	HQA	1.0
6	D	✓	III	1.0	1.0	6	B	✓	III	COE	1.0	20	B	✓	III	PAM	1.0	20	B	✓	III	PAM	1.0
7	B	✓	III	1.0	1.0	7	A	✓	III	WC	1.0	21	B	✓	III	PSD	1.0	21	B	✓	III	PSD	1.0
8	A	✓	III	1.0	1.0	8	B	✓	III	EDJ	1.0	22	D	✓	III	PAM	1.0	22	D	✓	III	PAM	1.0
9	D	✓	III	1.0	1.0	9	A	✓	III	WC	1.0	23	D	✓	III	HQA	1.0	23	D	✓	III	HQA	1.0
10	A	✓	III	1.0	1.0	10	D	✓	III	SEC	1.0	24	C	✓	III	PAM	1.0	24	C	✓	III	PAM	1.0
11	D	✓	III	1.0	1.0	11	B	✓	III	COE	1.0	25	B	✓	III	PSD	1.0	25	B	✓	III	PSD	1.0
12	B	✓	III	1.0	1.0	12	B	✓	III	COE	1.0	26	D	✓	III	PAM	1.0	26	D	✓	III	PAM	1.0
13	D	✓	III	1.0	1.0	13	C	✓	III	SEC	1.0	27	D	✓	III	HQA	1.0	27	D	✓	III	HQA	1.0
14	A	✓	III	1.0	1.0	14	C	✓	III	SEC	1.0												
15	C	✓	III	1.0	1.0	15	D	✓	III	WC	1.0												
16	B	✓	III	1.0	1.0	16	B	✓	III	SEC	1.0												
17	D	✓	III	1.0	1.0	17	D	✓	III	SEC	1.0												
18	B	✓	III	1.0	1.0	18	A	✓	III	EDJ	1.0												
19	A	✓	III	1.0	1.0	19	B	✓	III	EDJ	1.0												
20	C	✓	III	1.0	1.0	20	C	✓	III	COE	1.0												
21	B	✓	III	1.0	1.0	21	A	✓	III	COE	1.0												
22	D	✓	III	1.0	1.0	22	A	✓	III	WC	1.0												
23	C	✓	III	1.0	1.0	23	C	✓	III	WC	1.0												
24	D	✓	III	1.0	1.0	24	D	✓	III	SEC	1.0												
25	C	✓	III	1.0	1.0	25	C	✓	III	SEC	1.0												
26	B	✓	III	1.0	1.0	26	A	✓	III	COE	1.0												
27	B	✓	III	1.0	1.0	27	A	✓	III	EDJ	1.0												
28	A	✓	III	1.0	1.0	28	B	✓	III	COE	1.0												
29	D	✓	III	1.0	1.0	29	D	✓	III	WC	1.0												
30	A	✓	III	1.0	1.0	30	C	✓	III	SEC	1.0												
31	D	✓	III	1.0	1.0	31	D	✓	III	EDJ	1.0												
32	B	✓	III	1.0	1.0	32	B	✓	III	SEC	1.0												
33	C	✓	III	1.0	1.0	33	D	✓	III	SEC	1.0												
34	A	✓	III	1.0	1.0	34	D	✓	III	EDJ	1.0												
35	A	✓	III	1.0	1.0	35	D	✓	III	EDJ	1.0												
36	C	✓	III	1.0	1.0	36	B	✓	III	EDJ	1.0												
37	B	✓	III	1.0	1.0	37	C	✓	III	COE	1.0												
38	C	✓	III	1.0	1.0	38	A	✓	III	SEC	1.0												
39	C	✓	III	1.0	1.0	39	C	✓	III	SEC	1.0												
40	C	✓	III	1.0	1.0	40	D	✓	III	WC	1.0												
41	B	✓	III	1.0	1.0	41	D	✓	III	SEC	1.0												
42	B	✓	III	1.0	1.0	42	A	✓	III	SEC	1.0												
43	A	✓	III	1.0	1.0	43	C	✓	III	COE	1.0												
44	A	✓	III	1.0	1.0	44	B	✓	III	WC	1.0												
45	A	✓	III	1.0	1.0																		
46	D	✓	III	1.0	1.0																		
47	C	✓	III	1.0	1.0																		

Access Code: A02670146P

See the questions, and the answer explanations, online at studentscores.collegeboard.org

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Ima B. Student 2016, Grade: 11th Grade

The PSAT/NMSQT Sample Score Report

Hi, Ima B. Student

School Name: John F. Kennedy High School, School Code: 123456
2016, Grade: 11th Grade
Student ID: 24068907
Optional Code: 00
Access Code: A02670146P

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SCHOLARSHIP CORPORATION

PSAT/NMSQT[®]

Preliminary SAT/National Merit Scholarship Qualifying Test

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be good matches for you.



Register for the SAT[®]

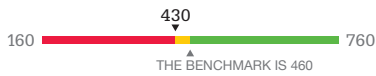
Select an SAT test date, and
register for it now.

The PSAT/NMSQT Sample Score Report, cont.

Your Evidence-Based Reading and Writing Score

430 | 160 to 760

Your Nationally Representative **31st** Sample Percentile



! Your scores indicate you are close to being on track for college readiness, but you need to continue to strengthen your skills.

Let's get you back on track, so you won't have to take noncredit courses in college. You have free, personalized recommendations waiting for you on satpractice.org.

Your Total Score

960 | 320 to 1520

Your Nationally Representative **51st** Sample Percentile

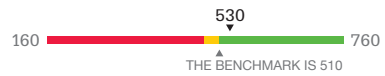
Keep in mind, the PSAT/NMSQT® and SAT® are on the same scale.

Your score shows you how you would have scored that day on the SAT. How well you do depends on what you do next!

Your Math Score

530 | 160 to 760

Your Nationally Representative **69th** Sample Percentile



✓ You are on track for college readiness.

Stay on track and continue your progress. Start now with your free, personalized recommendations waiting for you on satpractice.org.

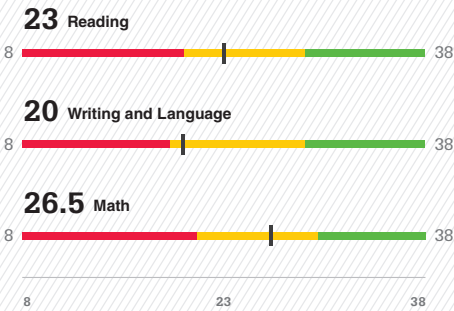
The College and Career Readiness Benchmark

Reaching your grade-level benchmark means that you are likely on track to be ready for select first-year, credit-bearing college courses.

■ Need to strengthen skills ■ Approaching Benchmark ■ Meet or exceed Benchmark

*The red, yellow, and green ranges in the test scores and subscores reflect your areas of strengths and weaknesses, compared to the typical performance of students in your grade.

Test Scores 8 to 38 range*



Cross-Test Scores 8 to 38 range

25 Analysis in History/Social Studies
20 Analysis in Science

If a student were to take the same test repeatedly (with no new learning), the standard deviation of the student's repeated test scores is called the standard error of measurement (SEM). Your score range is computed as your score +/- SEM. For PSAT/NMSQT, these ranges are approximately:

Total Score: Your score ± 40 points.
Evidence-Based Reading and Writing Section Score: Your score ± 25 points.
Math Section Score: Your score ± 33 points.
Test Scores and Cross-Test Scores: Your score ± 2 points.
Subscores: Your score ± 1 to 2 points.

Remember that you will receive scores in the same areas when you take the SAT.

Subscores 1 to 15 range*



Ima B. Student

2016, Grade: 11th Grade, Student ID 24068907

The PSAT/NMSQT Sample Score Report, cont.

National Merit Scholarship Corporation

National Merit Scholarship Corporation (NMSC) conducts the National Merit® Scholarship Program, an academic competition for recognition and college scholarships. To designate students who qualify for recognition in its 2018 competition, NMSC will consider the 2016 PSAT/NMSQT® Selection Index scores of some 1.6 million test-takers (usually high school juniors) who meet program entry requirements. For more information, please visit: www.nationalmerit.org.

If any of your responses to NMSC's "Entry Requirements" questions (see right-hand column) are inaccurate or there has been a change in plans that may affect program entry, write immediately to:

National Merit Scholarship Corporation
Attn: Scholarship Administration
1560 Sherman Avenue, Suite 200
Evanston, IL 60201-4897

Include your name and home address along with your high school name, address, and six-digit code number.

Your NMSC Selection Index

139

NMSC uses a Selection Index based on PSAT/NMSQT scores as an initial screen of students who enter its scholarship programs. To calculate your Selection Index, double the sum of your Reading, Writing and Language, and Math Test scores.

Eligibility Information

If your Selection Index places you among the 50,000 high scorers who qualify for National Merit Scholarship Program recognition, you will be notified next September.

Entry Requirements

(Information you provided on your answer sheet)

High school student:

YES

Year to complete high school and enroll full-time in college:

2018

Years to be spent in grades 9–12:

4

U.S. Citizenship:

YES

Your Scores: Next Steps

Additional skills and improvement suggestions can be found in your online score report.

Your score indicates that you are already likely able to:

- Draw reasonable conclusions from somewhat challenging texts
- Describe the overall structure of a somewhat challenging text
- Identify claims and counterclaims explicitly stated in a somewhat challenging passage

Reading Test



Improve your skills by focusing on the following suggestions:

- Draw reasonable inferences and logical conclusions from challenging texts
- Analyze information presented quantitatively in such forms as graphs, tables, and charts and relate that information to information presented in somewhat challenging text
- Determine how the selection of specific words shapes meaning and tone in a challenging passage

Writing and Language Test

- Revise text as needed to improve the exactness or content appropriateness of word choices within somewhat challenging texts
- Retain or add information or ideas to a piece of a text to support claims or points in somewhat challenging text
- Revise somewhat challenging text to ensure that information is presented in the most logical order



- Retain or add information or ideas to a piece of text to support claims or points in challenging text
- Use a variety of sentence structures to accomplish a rhetorical purpose such as persuading an audience
- Revise text as needed to improve the exactness or content appropriateness of word choices within challenging texts

Math Test

- Interpret a linear inequality in one variable with rational coefficients that represents a context. Select the equation of a line of best fit and interpret the slope and intercept of the line in the context of the situation (when a linear model is appropriate)
- Interpret sample statistics understanding and using margin of error
- Solve and interpret a quadratic function or equation that represents a context and requires multiple steps
- Calculate and interpret frequency distributions using tables and other representational methods



- Determine how a graph may be affected by a change to its equation
- Determine the value of a constant or coefficient for an equation with no solution or infinitely many solutions
- Using a specified model, make a prediction and compare the predicted values with the actual values in the data set
- Within a context, compare the center of two separate data sets with different spreads
- Determine whether two events are independent given their probabilities

Get more next steps online

studentscores.collegeboard.org



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AP and Course Work

See which AP courses may be good matches for you.



Register for the SAT

Select an SAT test date and register for it now.

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The PSAT/NMSQT Sample Score Report, cont.

Your Question-Level Feedback

Reading

Question #	Correct	Your Answer	Difficulty	Subscore	Cross-Test Score
1	A	✓	■ ■ ■		
2	B	A	■ ■ ■	COE	
3	B	✓	■ ■ ■		
4	B	A	■ ■ ■	WIC	
5	C	✓	■ ■ ■		
6	D	✓	■ ■ ■		
7	B	✓	■ ■ ■	COE	
8	A	✓	■ ■ ■	WIC	
9	D	✓	■ ■ ■	WIC	
10	A	✓	■ ■ ■		HSS
11	D	C	■ ■ ■	WIC	HSS
12	D	B	■ ■ ■	WIC	HSS
13	D	A	■ ■ ■	COE	HSS
14	A	C	■ ■ ■		HSS
15	C	B	■ ■ ■	COE	HSS
16	B	C	■ ■ ■		HSS
17	D	C	■ ■ ■		HSS
18	B	D	■ ■ ■		HSS
19	A	✓	■ ■ ■		SCI
20	C	✓	■ ■ ■		SCI
21	B	D	■ ■ ■	COE	SCI
22	D	✓	■ ■ ■		SCI
23	B	D	■ ■ ■		SCI
24	D	✓	■ ■ ■	WIC	SCI
25	C	✓	■ ■ ■	WIC	SCI
26	B	A	■ ■ ■		SCI
27	B	C	■ ■ ■		SCI
28	A	C	■ ■ ■	COE	SCI
29	D	A	■ ■ ■	WIC	HSS
30	B	A	■ ■ ■		HSS
31	D	✓	■ ■ ■	COE	HSS
32	A	✓	■ ■ ■		HSS
33	C	✓	■ ■ ■	COE	HSS
34	A	B	■ ■ ■	WIC	HSS
35	A	B	■ ■ ■		HSS
36	C	○	■ ■ ■		HSS
37	B	C	■ ■ ■		HSS
38	C	D	■ ■ ■		HSS
39	C	✓	■ ■ ■		SCI
40	C	✓	■ ■ ■		SCI
41	B	✓	■ ■ ■		SCI
42	B	✓	■ ■ ■	COE	SCI
43	A	B	■ ■ ■		SCI
44	A	✓	■ ■ ■	WIC	SCI
45	A	C	■ ■ ■		SCI
46	D	A	■ ■ ■	COE	SCI
47	C	B	■ ■ ■		SCI

Writing and Language

Question #	Correct	Your Answer	Difficulty	Subscore	Cross-Test Score
1	D	C	■ ■ ■	SEC	
2	B	✓	■ ■ ■	EOI	HSS
3	C	D	■ ■ ■	SEC	
4	C	A	■ ■ ■	SEC	
5	B	D	■ ■ ■	SEC	
6	B	D	■ ■ ■	COE, EOI	HSS
7	A	D	■ ■ ■	WIC, EOI	HSS
8	B	C	■ ■ ■	EOI	HSS
9	A	B	■ ■ ■	WIC, EOI	HSS
10	D	✓	■ ■ ■	SEC	
11	D	✓	■ ■ ■	COE, EOI	HSS
12	B	✓	■ ■ ■		
13	C	✓	■ ■ ■	SEC	
14	C	B	■ ■ ■	SEC	
15	D	✓	■ ■ ■	WIC, EOI	SCI
16	B	A	■ ■ ■	SEC	
17	B	D	■ ■ ■	SEC	
18	A	✓	■ ■ ■	EOI	SCI
19	B	✓	■ ■ ■	EOI	SCI
20	C	D	■ ■ ■	COE, EOI	SCI
21	A	✓	■ ■ ■	COE, EOI	SCI
22	A	B	■ ■ ■	WIC, EOI	SCI
23	C	B	■ ■ ■	WIC, EOI	
24	D	C	■ ■ ■	SEC	
25	C	D	■ ■ ■	SEC	
26	A	✓	■ ■ ■	COE, EOI	
27	A	D	■ ■ ■	EOI	
28	B	✓	■ ■ ■	COE, EOI	
29	D	A	■ ■ ■	WIC, EOI	
30	C	B	■ ■ ■	SEC	
31	D	✓	■ ■ ■	EOI	
32	B	✓	■ ■ ■	SEC	
33	D	✓	■ ■ ■	SEC	
34	D	B	■ ■ ■	EOI	
35	D	✓	■ ■ ■	SEC	
36	B	A	■ ■ ■	EOI	
37	C	D	■ ■ ■	COE, EOI	
38	A	✓	■ ■ ■	SEC	
39	C	✓	■ ■ ■	SEC	
40	D	A	■ ■ ■	WIC, EOI	
41	D	B	■ ■ ■	SEC	
42	A	○	■ ■ ■	SEC	
43	C	B	■ ■ ■	COE, EOI	
44	B	C	■ ■ ■	WIC, EOI	

Math Test—Calculator

Question #	Correct	Your Answer	Difficulty	Subscore	Cross-Test Score
1	B	✓	■ ■ ■	PSD	HSS
2	A	✓	■ ■ ■	HOA	
3	B	✓	■ ■ ■	PSD	SCI
4	D	✓	■ ■ ■	HOA	
5	B	C	■ ■ ■	PSD	
6	A	✓	■ ■ ■	PSD	
7	B	✓	■ ■ ■	PSD	
8	C	B	■ ■ ■	PSD	
9	A	✓	■ ■ ■	PAM	
10	D	C	■ ■ ■	HOA	
11	D	✓	■ ■ ■	PSD	HSS
12	A	✓	■ ■ ■	PSD	
13	B	✓	■ ■ ■	PSD	
14	C	✓	■ ■ ■	PSD	SCI

Question #	Correct	Your Answer	Difficulty	Subscore	Cross-Test Score
15	C	A	■ ■ ■		
16	B	✓	■ ■ ■	PSD	HSS
17	D	✓	■ ■ ■	PSD	
18	B	A	■ ■ ■	PSD	HSS
19	C	A	■ ■ ■	HOA	
20	B	✓	■ ■ ■	PAM	
21	B	C	■ ■ ■	HOA	
22	D	C	■ ■ ■	PAM	
23	D	B	■ ■ ■	HOA	SCI
24	C	○	■ ■ ■	PAM	SCI
25	B	A	■ ■ ■	PSD	SCI
26	D	✓	■ ■ ■	PAM	
27	D	A	■ ■ ■	HOA	

Question #	Correct	Your Answer	Difficulty	Subscore	Cross-Test Score
28	65	60	■ ■ ■	HOA	
29	0, 12	2	■ ■ ■	PAM	
30	1368	0	■ ■ ■	PSD	HSS
31	85	75	■ ■ ■	PSD	HSS

Math Test—No Calculator

Question #	Correct	Your Answer	Difficulty	Subscore	Cross-Test Score
1	D	✓	■ ■ ■	PAM	
2	A	✓	■ ■ ■	PAM	SCI
3	B	✓	■ ■ ■	PAM	
4	C	B	■ ■ ■	PAM	
5	C	✓	■ ■ ■	HOA	
6	B	✓	■ ■ ■	HOA	SCI
7	A	✓	■ ■ ■	HOA	

Question #	Correct	Your Answer	Difficulty	Subscore	Cross-Test Score
8	B	C	■ ■ ■	HOA	
9	C	✓	■ ■ ■	HOA	
10	D	✓	■ ■ ■	HOA	HSS
11	A	C	■ ■ ■		
12	C	✓	■ ■ ■	PAM	
13	B	A	■ ■ ■	PAM	

Question #	Correct	Your Answer	Difficulty	Subscore	Cross-Test Score
14	2	0	■ ■ ■	HOA	
15	90	80	■ ■ ■	HOA	
16	1	2	■ ■ ■	PAM	
17	0	✓	■ ■ ■	PAM	

Access Code
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See the questions, and the answer explanations, online studentscores.collegeboard.org

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Subscore

- COE Command of Evidence
- WIC Words in Context
- EOI Expression of Ideas
- SEC Standard English Conventions
- HOA Heart of Algebra
- PSD Problem Solving and Data Analysis
- PAM Passport to Advanced Math

Key

- ✓ Correct
- Omitted
- U Unscoreable
- ■ ■ Easy
- ■ ■ Medium
- ■ ■ Hard

Cross-Test Score

- HSS Analysis in History/Social Studies
- SCI Analysis in Science

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