Answer Key – Determine Raw Scores

Reading Test Answers

Question #	Correct Answer	Question #	Correct Answer	Question #	Correct Answer	Question #	Correct Answer
1	B	14	A	27	C	40	B
2	C	15	C	28	A	41	D
3	A	16	B	29	A	42	B
4	B	17	A	30	D	43	C
5	B	18	B	31	B	44	D
6	C	19	C	32	A	45	B
7	A	20	D	33	B	46	B
8	D	21	B	34	D	47	C
9	D	22	C	35	B	48	A
10	C	23	C	36	D	49	C
11	C	24	C	37	D	50	D
12	D	25	A	38	B	51	D
13	C	26	D	39	A	52	A

Reading Test Raw Score
(Number of Correct Answers)

Writing and Language Test Answers

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

Writing and Language Test Raw Score
(Number of Correct Answers)

"U" indicates a question that did not perform as expected and has been removed from scoring.

Answer Key – Determine Raw Scores (continued)

Math Test – No Calculator Answers

Question #	Correct Answer		Question #	Correct Answer		Question #	Correct Answer		Question #	Correct Answer
1	C		5	C		9	C		13	A
2	B		6	A		10	B		14	D
3	A		7	C		11	D		15	D
4	C		8	D		12	C			

Question #	Correct Answer
16	6
17	2,3
18	28
19	3.25,13/4
20	108

Math Test – No Calculator Raw Score
(Number of Correct Answers)

Math Test – Calculator Answers

Question #	Correct Answer		Question #	Correct Answer		Question #	Correct Answer		Question #	Correct Answer
1	B		9	C		17	A		25	D
2	D		10	C		18	B		26	B
3	C		11	B		19	D		27	B
4	A		12	C		20	D		28	A
5	C		13	A		21	C		29	D
6	D		14	C		22	B		30	B
7	D		15	B		23	B			
8	C		16	B		24	B			

Question #	Correct Answer
31	1,3,4,12
32	4,5,6
33	15
34	2.5,5/2
35	90
36	138,137
37	36
38	135

Math Test – Calculator Raw Score
(Number of Correct Answers)

"U" indicates a question that did not perform as expected and has been removed from scoring.

GET CROSS-TEST SCORES

The SAT also reports two cross-test scores: Analysis in History/Social Studies and Analysis in Science. These scores are based on questions in the Reading, Writing and Language, and Math Tests that ask you to think analytically about texts and questions in these subject areas.

Cross-test scores are reported on a scale of 10–40.

Calculating Your Cross-Test Scores

You can use the cross-test score tables beginning on the next page to calculate your cross-test scores as follows:

1. Find the questions in each section that count toward each cross-test score. These are shown with a "Y" next to the question number in the tables. Refer to your QAS report to see which of those questions you answered correctly on the test, and then check the box for each correct answer.

2. Count the number of correct answers for each cross-test area and record that as your raw score for that area.

3. Use the conversion table on page 12 to determine your scaled score (10–40) for each area.

Cross-Test Scores Tables – Determine Cross-Test Raw Scores

Y = Counts toward Cross-Test score. On your QAS report, look up every question marked "Y" below to see if you answered it correctly. If so, check off the box for that question below.

Analysis in History/Social Studies (HSS)

Reading		Writing and Language		Math Test – Calculator		Math Test – No Calculator	
1		1		1		1	
2		2		2		2	
3		3	Y ☐	3		3	
4		4	Y ☐	4	Y ☐	4	
5		5		5		5	
6		6		6		6	
7		7		7		7	
8		8	Y ☐	8		8	
9		9	Y ☐	9		9	
10		10	Y ☐	10	Y ☐	10	
11	Y ☐	11	Y ☐	11	Y ☐	11	
12	Y ☐	12		12	Y ☐	12	
13	Y ☐	13		13	Y ☐	13	
14	Y ☐	14		14		14	Y ☐
15	Y ☐	15		15		15	
16	Y ☐	16		16		16	
17	Y ☐	17		17		17	
18	Y ☐	18		18		18	
19	Y ☐	19		19		19	
20	Y ☐	20		20		20	
21		21		21			
22		22		22	Y ☐		
23		23		23			
24		24		24			
25		25		25			
26		26		26			
27		27		27			
28		28		28			
29		29		29			
30		30		30			
31	Y ☐	31		31			
32	Y ☐	32		32	Y ☐		
33	Y ☐	33		33			
34	Y ☐	34		34			
35	Y ☐	35		35			
36	Y ☐	36		36			
37	Y ☐	37		37			
38	Y ☐	38		38			
39	Y ☐	39					
40	Y ☐	40					
41	Y ☐	41					
42		42					
43		43					
44		44					
45							
46							
47							
48							
49							
50							
51							
52							

☐ **HSS Raw Score**

Analysis in Science (SCI)

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

☐ **SCI Raw Score**

GET SUBSCORES

Subscores provide more detailed information about your strengths in specific areas within literacy and math.

Subscores are reported on a scale of 1–15.

▸ The **Command of Evidence** subscore is based on questions from both the Reading Test and the Writing and Language Test that ask you to interpret and use evidence found in a wide range of passages and informational graphics, such as graphs, tables, and charts.

▸ The **Words in Context** subscore is based on questions from both the Reading Test and the Writing and Language Test that address the meaning in context of words/phrases and rhetorical word choice.

▸ The **Expression of Ideas** subscore is based on questions from the Writing and Language Test that focus on topic development, organization, and rhetorically effective use of language.

▸ The **Standard English Conventions** subscore is based on questions from the Writing and Language Test that focus on sentence structure, usage, and punctuation.

▸ The **Heart of Algebra** subscore is based on questions from the Math Test that focus on linear equations and inequalities.

▸ The **Problem Solving and Data Analysis** subscore is based on questions from the Math Test that focus on quantitative reasoning, the interpretation and synthesis of data, and solving problems in rich and varied contexts.

▸ The **Passport to Advanced Math** subscore is based on questions from the Math Test that focus on topics central to the ability of students to progress to more advanced mathematics, such as understanding the structure of expressions, reasoning with more complex equations, and interpreting and building functions.

Calculating Your Subscores

You can use the subscore tables beginning on the next page to calculate your subscores as follows:

1. Find the questions that count toward each subscore. These are shown with a "Y" next to the question number in the tables. Refer to your QAS report to see which of those questions you answered correctly on the test, and then check the box for each correct answer.

2. Count the number of correct answers for each area and record that as your raw score for that area.

3. Finally, use the conversion table on page 13 to determine your scaled score (1–15) for each area.

Subscores Tables – Determine Subscore Raw Scores

Y = Counts toward subscore. On your QAS report, look up every question marked "Y" to see if you answered it correctly.
If so, check off the box for that question.

Command of Evidence (COE)

Reading		Writing and Language	
1		1	
2		2	
3		3	Y ☐
4	Y ☐	4	
5		5	
6		6	
7		7	
8		8	
9	Y ☐	9	
10		10	
11		11	Y ☐
12		12	Y ☐
13	Y ☐	13	
14		14	
15		15	
16		16	
17	Y ☐	17	
18		18	Y ☐
19		19	
20		20	
21		21	
22		22	
23		23	
24		24	
25	Y ☐	25	
26		26	
27		27	
28		28	
29		29	Y ☐
30	Y ☐	30	
31		31	Y ☐
32		32	
33		33	
34		34	
35		35	
36	Y ☐	36	
37		37	
38		38	
39		39	
40		40	Y ☐
41	Y ☐	41	Y ☐
42		42	
43		43	
44		44	
45			
46			
47	Y ☐		
48			
49	Y ☐		
50			
51			
52			

COE Raw Score [ ]

Expression of Ideas (EOI)

Reading		Writing and Language	
1		1	
2		2	
3		3	Y ☐
4		4	Y ☐
5		5	
6		6	
7		7	
8		8	Y ☐
9		9	Y ☐
10		10	Y ☐
11		11	Y ☐
12		12	Y ☐
13		13	
14		14	Y ☐
15		15	Y ☐
16		16	
17		17	
18		18	Y ☐
19		19	
20		20	
21		21	Y ☐
22		22	Y ☐
23		23	Y ☐
24		24	
25		25	
26		26	Y ☐
27		27	
28		28	Y ☐
29		29	Y ☐
30		30	
31		31	Y ☐
32		32	Y ☐
33		33	
34		34	Y ☐
35		35	
36		36	Y ☐
37		37	
38		38	
39		39	
40		40	Y ☐
41		41	Y ☐
42		42	Y ☐
43		43	
44		44	Y ☐
45			
46			
47			
48			
49			
50			
51			
52			

EOI Raw Score [ ]

Words in Context (WIC)

Reading		Writing and Language	
1		1	
2		2	
3		3	
4		4	Y ☐
5	Y ☐	5	
6		6	
7	Y ☐	7	
8		8	
9		9	
10		10	Y ☐
11	Y ☐	11	
12		12	
13		13	
14	Y ☐	14	Y ☐
15		15	
16		16	
17		17	
18		18	
19		19	
20		20	
21		21	Y ☐
22		22	
23		23	Y ☐
24		24	
25		25	
26		26	Y ☐
27	Y ☐	27	
28		28	
29		29	
30		30	
31		31	
32	Y ☐	32	
33		33	
34	Y ☐	34	Y ☐
35		35	
36		36	Y ☐
37	Y ☐	37	
38		38	
39		39	
40		40	
41		41	
42		42	
43		43	
44	Y ☐	44	
45	Y ☐		
46			
47			
48			
49			
50			
51			
52			

WIC Raw Score [ ]

Standard English Conventions (SEC)

Reading		Writing and Language	
1		1	Y ☐
2		2	Y ☐
3		3	
4		4	
5		5	Y ☐
6		6	Y ☐
7		7	Y ☐
8		8	
9		9	
10		10	
11		11	
12		12	
13		13	Y ☐
14		14	
15		15	
16		16	Y ☐
17		17	Y ☐
18		18	
19		19	Y ☐
20		20	Y ☐
21		21	
22		22	
23		23	
24		24	Y ☐
25		25	Y ☐
26		26	
27		27	Y ☐
28		28	
29		29	
30		30	Y ☐
31		31	
32		32	
33		33	Y ☐
34		34	
35		35	Y ☐
36		36	
37		37	Y ☐
38		38	Y ☐
39		39	Y ☐
40		40	
41		41	
42		42	
43		43	Y ☐
44		44	
45			
46			
47			
48			
49			
50			
51			
52			

SEC Raw Score [ ]

Subscores Tables – Determine Subscore Raw Scores (continued)

Y = Counts toward Subscore. On your QAS report, look up every question marked "Y" to see if you answered it correctly. If so, check off the box for that question.

Heart of Algebra (HOA)

Math Test – Calculator			Math Test – No Calculator		
1	Y	☐	1	Y	☐
2			2	Y	☐
3			3		
4			4	Y	☐
5			5	Y	☐
6	Y	☐	6		
7			7		
8	Y	☐	8		
9			9		
10			10	Y	☐
11			11	Y	☐
12			12		
13			13		
14	Y	☐	14		
15			15		
16			16	Y	☐
17			17		
18	Y	☐	18		
19	Y	☐	19	Y	☐
20			20		
21					
22					
23	Y	☐			
24	Y	☐			
25					
26					
27	Y	☐			
28					
29					
30					
31					
32					
33					
34	Y	☐			
35	Y	☐			
36					
37					
38					

Problem Solving and Data Analysis (PSD)

Math Test – Calculator			Math Test – No Calculator		
1			1		
2	Y	☐	2		
3	Y	☐	3		
4	Y	☐	4		
5			5		
6			6		
7			7		
8			8		
9	Y	☐	9		
10	Y	☐	10		
11	Y	☐	11		
12	Y	☐	12		
13	Y	☐	13		
14			14		
15	Y	☐	15		
16			16		
17	Y	☐	17		
18			18		
19			19		
20			20		
21	Y	☐			
22	Y	☐			
23					
24					
25					
26					
27					
28	Y	☐			
29	Y	☐			
30					
31					
32	Y	☐			
33					
34					
35					
36					
37	Y	☐			
38	Y	☐			

Passport to Advanced Math (PAM)

Math Test – Calculator			Math Test – No Calculator		
1			1		
2			2		
3			3	Y	☐
4			4		
5	Y	☐	5		
6			6	Y	☐
7	Y	☐	7		
8			8	Y	☐
9			9	Y	☐
10			10		
11			11		
12			12	Y	☐
13			13	Y	☐
14			14	Y	☐
15			15	Y	☐
16			16		
17			17	Y	☐
18			18		
19			19		
20	Y	☐	20		
21					
22					
23					
24					
25	Y	☐			
26	Y	☐			
27					
28					
29					
30	Y	☐			
31	Y	☐			
32					
33					
34					
35					
36					
37					
38					

HOA Raw Score   PSD Raw Score   PAM Raw Score

CONVERSION TABLES

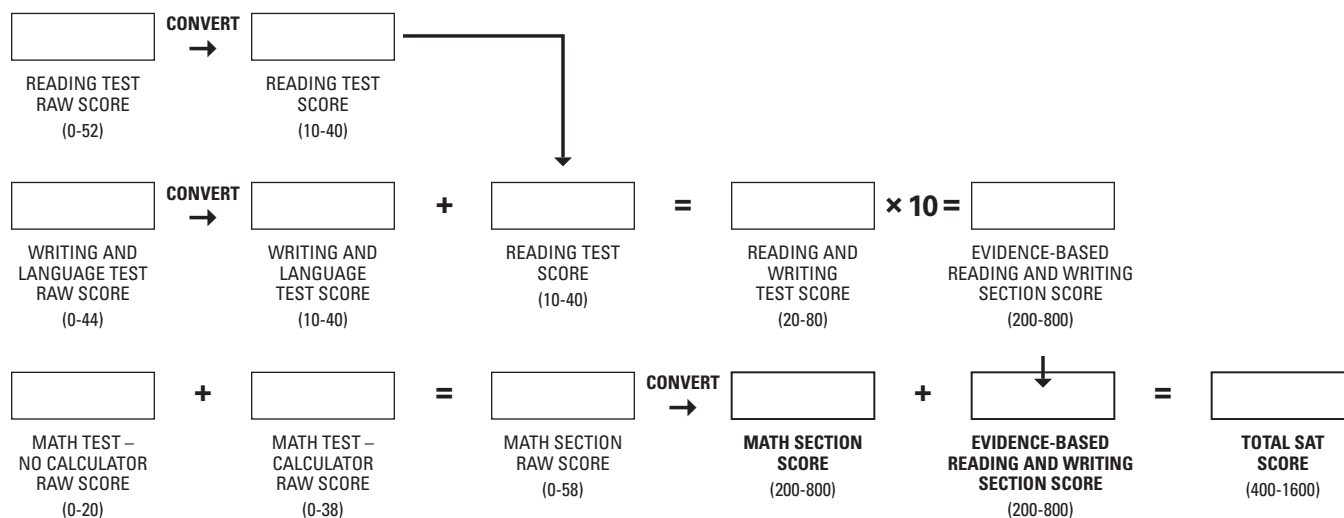## Raw Score Conversion – Section and Test Scores

Section and Test Scores
RAW SCORE CONVERSION TABLE 1

Raw Score (# of correct answers)	Math Section Score	Reading Test Score	Writing and Language Test Score	Raw Score (# of correct answers)	Math Section Score	Reading Test Score	Writing and Language Test Score
0	200	10	10	30	530	28	30
1	210	10	10	31	540	29	30
2	220	10	10	32	550	29	31
3	230	11	11	33	560	30	32
4	240	12	12	34	570	30	32
5	260	13	13	35	580	31	33
6	270	14	14	36	590	31	33
7	290	15	15	37	590	32	34
8	300	15	16	38	600	32	34
9	320	16	16	39	610	32	35
10	330	17	17	40	620	33	36
11	340	18	17	41	630	33	37
12	350	18	18	42	640	34	38
13	360	19	19	43	650	34	39
14	380	20	20	44	660	35	40
15	390	20	20	45	670	36	
16	400	21	21	46	680	36	
17	410	21	21	47	690	37	
18	430	22	22	48	700	38	
19	440	23	23	49	710	38	
20	450	23	23	50	730	39	
21	460	24	24	51	740	39	
22	470	24	25	52	750	40	
23	480	25	25	53	770		
24	490	25	26	54	780		
25	500	26	27	55	790		
26	510	26	27	56	790		
27	510	27	28	57	800		
28	520	27	28	58	800		
29	530	28	29				

Section and Test Scores
CONVERSION EQUATION 1

Raw Score Conversion – Cross-Test Scores

Cross-Test Scores

RAW SCORE CONVERSION | TABLE 2

Raw Score (# of correct answers)	Analysis in History/Social Studies Cross-Test Score	Analysis in Science Cross-Test Score	Raw Score (# of correct answers)	Analysis in History/Social Studies Cross-Test Score	Analysis in Science Cross-Test Score
0	10	10	18	25	27
1	10	11	19	26	27
2	10	12	20	26	28
3	11	13	21	27	29
4	13	14	22	28	30
5	14	15	23	28	30
6	15	16	24	29	31
7	16	17	25	30	32
8	17	18	26	31	32
9	18	19	27	32	33
10	19	20	28	33	34
11	20	21	29	33	34
12	21	22	30	34	35
13	22	23	31	35	36
14	22	23	32	36	37
15	23	24	33	38	38
16	24	25	34	39	39
17	24	26	35	40	40

Cross-Test Scores

CONVERSION EQUATION 2

	CONVERT →			**CONVERT** →	
ANALYSIS IN HISTORY/ SOCIAL STUDIES RAW SCORE (0-35)		**ANALYSIS IN HISTORY/ SOCIAL STUDIES SUBSCORE** (10-40)	ANALYSIS IN SCIENCE RAW SCORE (0-35)		**ANALYSIS IN SCIENCE SUBSCORE** (10-40)

Raw Score Conversion – Subscores

Subscores

RAW SCORE CONVERSION TABLE 3

Raw Score (# of correct answers)	Expression of Ideas	Standard English Conventions	Heart of Algebra	Problem Solving and Data Analysis	Passport to Advanced Math	Words in Context	Command of Evidence
0	1	1	1	1	1	1	1
1	1	1	2	1	3	1	3
2	2	2	3	1	4	1	4
3	3	3	4	2	5	2	5
4	3	3	5	3	6	3	5
5	4	4	5	4	7	5	6
6	4	5	6	5	8	6	6
7	5	5	7	6	9	7	7
8	5	6	8	7	9	7	8
9	6	7	8	8	10	8	8
10	7	8	9	9	11	9	9
11	7	8	9	9	12	10	10
12	8	9	10	10	13	10	10
13	8	10	10	11	14	11	11
14	9	11	11	12	14	11	12
15	10	11	12	13	15	12	13
16	10	12	13	14	15	13	14
17	11	13	14	15		14	15
18	11	13	14			15	15
19	12	14	15				
20	12	15					
21	13						
22	14						
23	15						
24	15						

Subscores

CONVERSION EQUATION 3

| COMMAND OF EVIDENCE RAW SCORE (0-18) | **CONVERT** → | **COMMAND OF EVIDENCE SUBSCORE (1-15)** |

| WORDS IN CONTEXT RAW SCORE (0-18) | **CONVERT** → | **WORDS IN CONTEXT SUBSCORE (1-15)** |

| EXPRESSION OF IDEAS RAW SCORE (0-24) | **CONVERT** → | **EXPRESSION OF IDEAS SUBSCORE (1-15)** |

| STANDARD ENGLISH CONVENTIONS RAW SCORE (0-20) | **CONVERT** → | **STANDARD ENGLISH CONVENTIONS SUBSCORE (1-15)** |

| HEART OF ALGEBRA RAW SCORE (0-19) | **CONVERT** → | **HEART OF ALGEBRA SUBSCORE (1-15)** |

| PROBLEM SOLVING AND DATA ANALYSIS RAW SCORE (0-17) | **CONVERT** → | **PROBLEM SOLVING AND DATA ANALYSIS SUBSCORE (1-15)** |

| PASSPORT TO ADVANCED MATH RAW SCORE (0-16) | **CONVERT** → | **PASSPORT TO ADVANCED MATH SUBSCORE (1-15)** |