ALGEBRA 2 CP
SAT Practice Test #1 Project
(This is a TEST Grade and Due Thursday, Sept. 22)

See my website for more information and answer keys: http://www.brunswick.k12.me.us/pgroves/**sat-practice-test-1-project**/

Goals:

- Take a full length SAT Math Practice Test to help you become familiar with the types of questions and format of the new SAT Math Test.

- Demonstrate your ability to correct your mistakes in your own words given a formal answer key.

- Determine your strengths and weaknesses for concepts included in the SAT Math Test.

- Provide Ms. Groves with Algebra 2 concepts to cover during the year.

Here are the project steps and suggested completion dates:

1) **WED 9/14 (IN CLASS**) – Complete SAT Section 3 (20 questions).
   ❑ This is a NO CALCULATOR Section that takes 25 minutes.
   ❑ Take the test in PENCIL.
   ❑ Complete ALL WORK on the test. Use the blank pages for your work. Number them.

2) **WED 9/14 (Homework**) – **"Self Correct"** the SAT Section 3
   ❑ See my website for the answer key
   ❑ Make all corrections in PEN (any color but BLACK to clearly see corrections)
   ❑ Circle the correct answer in pen.
   ❑ Review the answer key and correct all problems, clearly showing and explaining your corrections.

3) **WED 9/14 (Homework)** – Start Math Subscore Scoring
   ❑ Go to Section A. List your correct problem numbers to Section 3 (no calc).

4) **FRI 9/16 (IN CLASS)** – complete SAT Section 4 (38 questions).
   ❑ This is a CALCULATOR Section that takes 55 minutes.
   ❑ Take the test in PENCIL.
   ❑ Complete ALL WORK on the test. Use the blank pages for your work. Number them.

5) **FRI 9/16 (Homework)** – **"Self Correct"** the SAT Section 4
   ❑ See my website for the answer key and follow the same process as #2 above.
   ❑

6) **FRI 9/16 (Homework)** – Complete Math Subscore Scoring
   ❑ Go to Section A. List your correct problem numbers to Section 4 (calc).
      ❑ Then calculate your 3 Math Subscores.

7) **TUES 9/20 (Homework)** – Wrap-Up
   ❑ Go to Section B. Calculate your SAT Math Score.
   ❑ Go to Section C. Write your Reflection. Either type or neatly handwrite. This should at a minimum of 1 full typed page or 1½ hand written pages.

Section A: Calculate Your 3 Math Subscores

RAW SCORE CONVERSION TABLE 2 — SUBSCORES

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	1	1	3	1	1
2	1	1	2	2	5	2	2
3	2	2	3	3	6	3	3
4	3	2	4	4	7	4	4
5	4	3	5	5	8	5	5
6	5	4	6	6	9	6	6
7	6	5	6	7	10	6	7
8	6	6	7	8	11	7	8
9	7	6	8	8	11	8	8
10	7	7	8	9	12	8	9
11	8	7	9	10	12	9	10
12	8	8	9	10	13	9	10
13	9	8	9	11	13	10	11
14	9	9	10	12	14	11	12
15	10	10	10	13	14	12	13
16	10	10	11	14	15	13	14
17	11	11	12	15		14	15
18	11	12	13			15	15
19	12	13	15				
20	12	15					
21	13						
22	14						
23	14						
24	15						

GET SUBSCORES

Subscores provide more detailed information about your strengths in specific areas within literacy and math. They are reported on a scale of 1–15.

HEART OF ALGEBRA

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

❶ Add up your total correct answers from the following set of questions:
  ▸ Math Test – No Calculator: Questions 1; 3-4; 6; 9; 11-12; 18
  ▸ Math Test – Calculator: Questions 4; 8; 10-11; 15-16; 18-19; 28; 31-32

  Your total correct answers from all of these questions is your raw score.

❷ Use Raw Score Conversion Table 2: Subscores on page 8 to determine your Heart of Algebra subscore.

➢ Section 3 (no calc.) List your correct problem numbers _____

➢ Section 4 (calc.) List your correct problem numbers _____
_____

➢ **Score**: Raw score (# correct answers)=_____

Subscore=

Section A: Calculate Your 3 Math Subscores (continued)

PROBLEM SOLVING AND DATA ANALYSIS

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.

❶ Add up your total correct answers from the following set of questions:

▸ Math Test – No Calculator: No Questions

▸ Math Test – Calculator: Questions 1-2; 5-7; 12-14; 17; 20-23; 26-27; 33-34

Your total correct answers from all of these questions is your raw score.

❷ Use Raw Score Conversion Table 2: Subscores to determine your Problem Solving and Data Analysis subscore.

➢ Section 4 (calc.) List your correct problem numbers _____

_____

➢ **Score**:   Raw score (# correct answers)=_____

Subscore=

PASSPORT TO ADVANCED MATH

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.

❶ Add up your total correct answers from the following set of questions:

▸ Math Test – No Calculator: Questions 5; 7-8; 10; 13-16; 20

▸ Math Test – Calculator: Questions 9; 25; 29-30; 36-38

Your total correct answers from all of these questions is your raw score.

❷ Use Raw Score Conversion Table 2: Subscores to determine your Passport to Advanced Math subscore.

➢ Section 3 (no calc.) List your correct problem numbers _____

➢ Section 4 (calc.) List your correct problem numbers _____

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➢ **Score**:   Raw score (# correct answers)=_____

Subscore=

Section B: Calculate Your Math SAT Score

GET YOUR MATH SECTION SCORE

Calculate your SAT Math Section score (it's on a scale of 200–800).

1 Count the number of correct answers you got on Section 3 (Math Test — No Calculator) and Section 4 (Math Test — Calculator). There is no penalty for wrong answers.

2 Add the number of correct answers you got on Section 3 (Math Test — No Calculator) and Section 4 (Math Test — Calculator).

3 Use Raw Score Conversion Table 1: Section and Test Scores to turn your raw score into your Math Section score.

➤ Section 3 (no calc.) Number of correct answers = _____
➤ Section 4 (calc.) Number of correct answers = _____
➤ **Scores**:   Raw Score (total # correct answers) =_____

SAT Math Score=

RAW SCORE CONVERSION TABLE 1 SECTION AND TEST SCORES

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	29
1	200	10	10	31	540	28	30
2	210	10	10	32	550	29	30
3	230	11	10	33	560	29	31
4	240	12	11	34	560	30	32
5	260	13	12	35	570	30	32
6	280	14	13	36	580	31	33
7	290	15	13	37	590	31	34
8	310	15	14	38	600	32	34
9	320	16	15	39	600	32	35
10	330	17	16	40	610	33	36
11	340	17	16	41	620	33	37
12	360	18	17	42	630	34	38
13	370	19	18	43	640	35	39
14	380	19	19	44	650	35	40
15	390	20	19	45	660	36	
16	410	20	20	46	670	37	
17	420	21	21	47	670	37	
18	430	21	21	48	680	38	
19	440	22	22	49	690	38	
20	450	22	23	50	700	39	
21	460	23	23	51	710	40	
22	470	23	24	52	730	40	
23	480	24	25	53	740		
24	480	24	25	54	750		
25	490	25	26	55	760		
26	500	25	26	56	780		
27	510	26	27	57	790		
28	520	26	28	58	800		
29	520	27	28				

Section C: Self Reflection

Includes the following in your Reflection:

1) **REACTIONS**: Discuss what you thought of your overall score. Was it what you expected? Were you pleased, disappointed…

2) **MATH SUBSCORES**: For each of your 3 Math Subscores, explain in your own words what the subscore is measuring. Then discuss your weaknesses and areas you need to work on to improve this subscore.

3) **RECOMMENDATIONS**: Provide Ms. Groves with 3 areas/concepts that you would like covered this year in Algebra 2.

4) **GOALS**: Discuss your goals for your Math SAT scores. What score are you hoping for? Are you planning to attend college? What colleges are you thinking about? Do you know what your college Math SAT score requirement are?

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<u>Grading Rubric</u>

<u>Due Date:</u> Thursday, Sept. 22

<u>Grading Criteria:</u>

1) Attempted EVERY PROBLEM during the testing period   ____/ 29 (58 * ½pt per question)
2) Thorough, clear and accurate Self-Corrections   ____/ 58 (58 * 1pt per question)
3) Correctly calculated 3 Subscores and SAT Math Score   ____/ 12 (3 * 4scores)
4) Reflection   ____/ 20

                                    TOTAL POINTS   ____/ 119

Grade: %