



TEST NINJAS

PRACTICE ASSESSMENT

STUDENT TEST BOOK

Test Ninjas SAT® Combined Algebra · 5-Skill Mix Module

Math · 10 questions · Combined question pool

10

QUESTIONS

1

MODULE

STUDENT NAME

DATE

INSTRUCTOR

BEFORE YOU BEGIN

- Read the directions for each section carefully.
- Work only in the section your instructor assigns.
- Choose one answer for each multiple-choice question.
- Record student-produced responses clearly in the space provided.
- Do not use the answer key until the practice session is complete.

TEST INFORMATION

TIMING

Self-paced · no fixed limit

MATERIALS

Pencil · scratch paper

SCORING

Practice only · unofficial

STOP

Do not open this test book until instructed.

STUDENT ACKNOWLEDGMENT

I understand that this practice assessment is unofficial and that any resulting score is an estimate.

STUDENT INITIALS

PRACTICE ASSESSMENT · 2026 EDITION

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Test Ninjas creates independent practice assessments and instructional resources designed to support focused academic preparation.

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This is an independent, unofficial practice publication. It is not an official test form, and its questions, timing guidance, answer explanations, score estimates, and percentile references are provided for educational use only. Test Ninjas makes reasonable efforts to maintain accuracy, but published test specifications and scoring practices may change.



SECTION

Algebra • 5-Skill Mix Practice

Combined Module • 10 QUESTIONS

DIRECTIONS

Multiple choice: Solve the problem and mark exactly one option. If you revise an answer, erase the earlier mark completely. A blank item or an item with more than one marked choice is not counted as correct.

Student-produced response: Write one final value in the response area and circle it clearly. Only the single circled response will be evaluated.

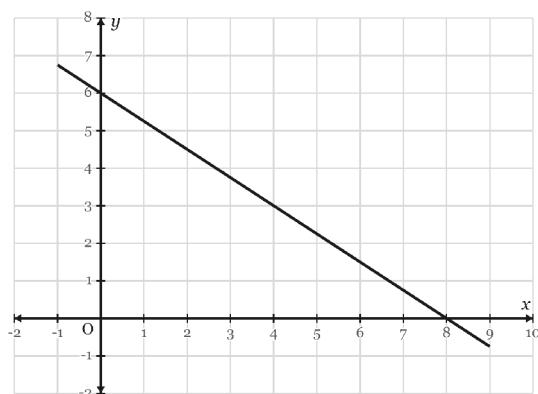
- When several answers are valid, submit only one.
- Use no more than 5 characters for a positive value or 6 for a negative value, counting the minus sign.
- If a fraction will not fit, enter an equivalent decimal.
- If a decimal is too long, truncate it or round at the fourth decimal digit.
- Rewrite a mixed number as an improper fraction or decimal.
- Leave out percent signs, commas, currency symbols, and other units.

Calculator: Calculator use is permitted for every question in this module.

1

LINEAR EQUATIONS IN TWO VARIABLES

MULTIPLE CHOICE



In the coordinate plane, the line $3x + 4y = 24$ is shown. At which point does this graph cross the y -axis?

- A) (0, 8)
- B) (0, 6)
- C) (6, 0)
- D) (0, -6)

2

LINEAR EQUATIONS IN ONE VARIABLE

STUDENT-PRODUCED RESPONSE

$12t = 156$ For which value of t does this hold?

STUDENT-PRODUCED RESPONSE

3

LINEAR FUNCTIONS

STUDENT-PRODUCED RESPONSE

In the Halvorsen greenhouse, the heater alone raises the temperature 0.8 degree per minute and the open vent alone lowers it 0.3 degree per minute. With both running, by how many degrees does the temperature change over 24 minutes?

STUDENT-PRODUCED RESPONSE

4

SYSTEM OF TWO LINEAR EQUATIONS

MULTIPLE CHOICE

A coffee roaster blends beans that are 15% Arabica with beans that are 40% Arabica to make 40 pounds of a blend that is 30% Arabica. How many pounds of the 40% Arabica beans does the roaster use?

- A) 12
- B) 16
- C) 24
- D) 30

5

LINEAR INEQUALITIES

STUDENT-PRODUCED RESPONSE

$$w < 2t + 5$$

$$2t < 8$$

The two inequalities shown above are both true for the same pair of values of t and w . Based on this information, what is the greatest possible integer value of w ?

STUDENT-PRODUCED RESPONSE



6 LINEAR EQUATIONS IN TWO VARIABLES

MULTIPLE CHOICE

A line in the xy -plane is defined by the equation $6x - 4y = 20$. A student wants to graph this line by first rewriting it so the rate of change is easy to read. What value should the student find for the slope?

- A) $-\frac{3}{2}$
- B) $-\frac{2}{3}$
- C) $\frac{3}{2}$
- D) $\frac{5}{2}$

7 LINEAR EQUATIONS IN ONE VARIABLE

MULTIPLE CHOICE

The expression $5(2w + 3)$ can be rewritten in the form $aw + b$. Which expression results?

- A) $2w + 8$
- B) $10w + 3$
- C) $10w + 15$
- D) $15w + 15$

8 LINEAR FUNCTIONS

MULTIPLE CHOICE

A linear function f has a graph that includes both of the points $(-3, -7)$ and $(2, 8)$. Which equation could define f ?

- A) $f(x) = 3x - 7$
- B) $f(x) = -3x + 2$
- C) $f(x) = 3x + 2$
- D) $f(x) = 3x + 8$

9 SYSTEM OF TWO LINEAR EQUATIONS

MULTIPLE CHOICE

On a 5-hour drive, Tamsin drove part of the way at 60 miles per hour and the rest at 40 miles per hour, covering 260 miles in all. How many hours did she drive at 60 miles per hour?

- A) 2
- B) 3
- C) 5
- D) 13

10 LINEAR INEQUALITIES

MULTIPLE CHOICE

Priscilla is hosting a banquet. The hall charges a flat fee of 48 dollars plus 12.50 dollars for each guest. She can spend no more than 360 dollars. If g stands for how many guests attend, which inequality models her spending limit?

- A) $48 + 12.50g \leq 360$
- B) $48 + 12.50g \geq 360$
- C) $12.50 + 48g \leq 360$
- D) $48 + 12.50g < 360$



QUICK REFERENCE

Answer Key

Correct responses by section

ALGEBRA · 5-SKILL MIX PRACTICE · COMBINED MODULE

1 B

2 13

3 12

4 C

5 12

6 C

7 C

8 C

9 B

10 A

DIGITAL SAT PRACTICE

Score Ranges and Scaling

Questions are first marked correct or incorrect, and there is no penalty for a wrong answer. Official Digital SAT section scores are not produced by a single fixed raw-score curve. College Board uses multistage adaptive testing and Item Response Theory, so a score depends on the questions administered, their characteristics—including difficulty—and the student’s full response pattern. Equating keeps scores comparable across different test forms and dates.

Approximate Raw-to-Scaled Conversion

These broad bands are an unofficial planning reference for a standard 54-question Reading and Writing section and 44-question Math section. Actual conversions are test-specific, depend on the second-module route and response pattern, and can differ even when two students have the same number correct. Custom-length modules cannot be converted with this table.

RAW SCORE R&W / 54	RAW SCORE MATH / 44	APPROXIMATE SCALED SECTION SCORE
52–54	43–44	780–800
48–51	40–42	720–770
44–47	36–39	660–710
40–43	32–35	600–650
35–39	28–31	540–590
30–34	23–27	480–530
24–29	18–22	420–470
18–23	13–17	360–410
12–17	8–12	300–350
6–11	4–7	250–290
0–5	0–3	200–240

How to read the estimate: A raw score such as 52 of 54 may fall in a very high Reading and Writing range, but an official score cannot be inferred from raw count alone. Do not assume a fixed point loss for missing an easy or difficult question; the official model evaluates item characteristics and the overall response pattern.

Methodology: College Board, “How Are Scores Calculated?” and “Scoring and Equating.” Planning ranges are Test Ninjas estimates, not official College Board conversion tables.

DIGITAL SAT PRACTICE

SAT Score Percentiles: Where Do You Rank?

A percentile shows the percentage of recent SAT takers whose scores were equal to or below yours. The table uses College Board's SAT User Percentile—not its separate nationally representative percentile. Among students in the graduating class of 2024 who took the SAT, the mean total score was 1024. In the current SAT-user table, a 1400 is approximately the 93rd percentile.

Approximate SAT User Percentiles

Percentile reference groups and published values can change over time. Use this table for context, not as an admission forecast.

COMPOSITE SCORE	SAT USER PERCENTILE
1600	99+
1550	99
1500	98
1450	96
1400	93
1350	90
1300	86
1250	82
1200	76
1150	70
1100	63
1050	56
1000	48
950	41
900	33
850	25
800	18

Sources: College Board SAT User Percentiles and the 2024 Total Group SAT Suite of Assessments Annual Report. Values checked July 2026.



TEST NINJAS PRACTICE ASSESSMENT

End of Practice Assessment

You have reached the end of this document. Review your work only when your instructor or testing conditions allow.

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