



TEST NINJAS

PRACTICE ASSESSMENT

STUDENT TEST BOOK

Test Ninjas SAT[®] Math Module

Math · Individual Module 2 · Hard

22

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

35 minutes

MATERIALS

Pencil · approved calculator · 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

Published by Test Ninjas

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

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SECTION

Math

Module 2 • Hard • 22
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 EQUIVALENT EXPRESSIONS

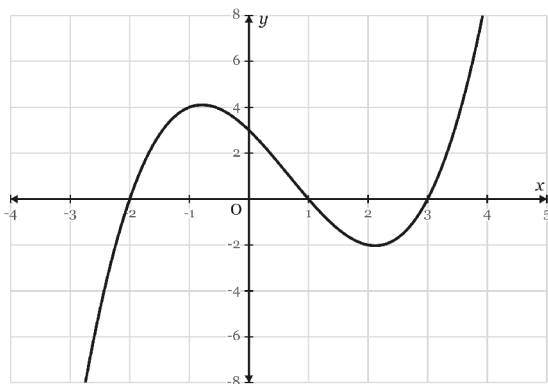
MULTIPLE CHOICE

Determine the simplest form of the sum $(3n^2 + 5n - 2) + (4n^2 + n + 6)$.

- A) $7n^2 + 6n - 8$
 B) $7n^2 + 6n + 4$
 C) $12n^2 + 6n + 4$
 D) $7n^4 + 6n + 4$

2 NONLINEAR FUNCTIONS

MULTIPLE CHOICE



The graph of the polynomial function f is shown in the xy -plane. For how many values of x is $f(x) = 0$?

- A) 1
 B) 2
 C) 3
 D) 4

3 EQUIVALENT EXPRESSIONS

STUDENT-PRODUCED RESPONSE

When $4(2x - 3) - 3(x - 5)$ is expanded, the coefficient of x is what number?

STUDENT-PRODUCED RESPONSE

4 NONLINEAR FUNCTIONS

STUDENT-PRODUCED RESPONSE

A collectible token climbs in worth according to $v(t) = 80(1.5)^t$ once t whole days have elapsed since it was minted. Determine the value of $v(2)$.

STUDENT-PRODUCED RESPONSE

5 PERCENTAGES

MULTIPLE CHOICE

A delivery of 480 ceramic tiles arrived at a workshop, and 35 percent of them were glazed. How many glazed tiles arrived?

- A) 16.8
 B) 168
 C) 312
 D) 1,680



6 LINEAR EQUATIONS IN TWO VARIABLES MULTIPLE CHOICE

A line with equation $9x + 6y = 54$ reaches the horizontal axis at $(p, 0)$ and the vertical axis at $(0, q)$. Compute the sum $p + q$.

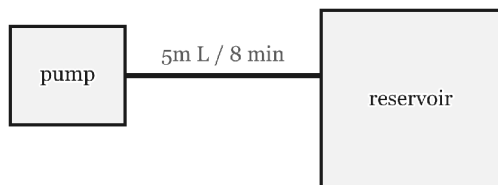
- A) 3
- B) 9
- C) 15
- D) 54

7 SYSTEM OF TWO LINEAR EQUATIONS MULTIPLE CHOICE

A florist sold 17 wreaths in two sizes. Each large wreath sold for 9 dollars and each small wreath for 4 dollars, totaling 108 dollars. How many large wreaths were sold?

- A) 6
- B) 8
- C) 9
- D) 12

8 RATIOS RATES PROPORTIONS MULTIPLE CHOICE



A pump fills a reservoir at Renata's greenhouse with $5m$ liters of water every 8 minutes at a constant rate. At this rate, the volume added in 40 minutes is given by which expression, in liters?

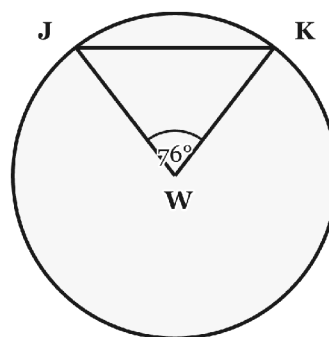
- A) $5m$
- B) $25m$
- C) $40m$
- D) $200m$

9 LINEAR EQUATIONS IN ONE VARIABLE MULTIPLE CHOICE

When $-5x = 12$, what number is equal to $20x$?

- A) -60
- B) -48
- C) 48
- D) 60

10 CIRCLES MULTIPLE CHOICE



A circle is centered at W , with J and K on its edge. Given that angle JWK equals 76° , find the degree measure of angle WJK .

- A) 38
- B) 52
- C) 76
- D) 104

11 ONE VARIABLE DATA MULTIPLE CHOICE

A data set of six measurements has a mean of 30. A seventh measurement of 79 is then added to the data set. Across all seven measurements, what is the new mean?

- A) 25.7
- B) 30
- C) 37
- D) 40

12 EQUIVALENT EXPRESSIONS

STUDENT-PRODUCED RESPONSE

Take $m = 4x + 3$ and $n = x + 5$. The polynomial $mn + n^2$ can be written as $px^2 + qx + r$. State the coefficient q .

STUDENT-PRODUCED RESPONSE

13 NONLINEAR FUNCTIONS

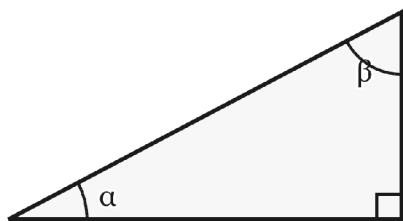
STUDENT-PRODUCED RESPONSE

For some constant a , a quadratic follows the rule $g(x) = a(x - 2)(x + 5)$. Its graph in the xy -plane includes the point $(3, 32)$. Find a .

STUDENT-PRODUCED RESPONSE

14 RIGHT TRIANGLES AND TRIGONOMETRY

STUDENT-PRODUCED RESPONSE

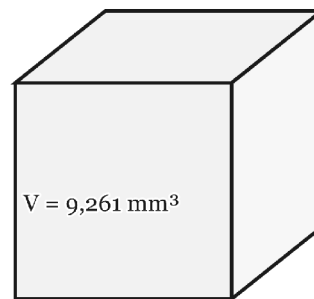


One acute angle of a right triangle has tangent $\frac{40}{9}$. Find the tangent of its complementary acute angle.

STUDENT-PRODUCED RESPONSE

15 AREA AND VOLUME

MULTIPLE CHOICE



The solid cube shown encloses a region of 9,261 cubic millimeters. Each face of this cube is a square. Find the perimeter, in millimeters, of one such square face.

- A) 21
- B) 84
- C) 441
- D) 1,764

16 NONLINEAR EQUATIONS

MULTIPLE CHOICE

$x^2 + bx + 9 = 0$ Here b is a number. For the quadratic to lack real roots, which listed b works?

- A) -8
- B) 2
- C) 7
- D) 10

17 LINEAR FUNCTIONS

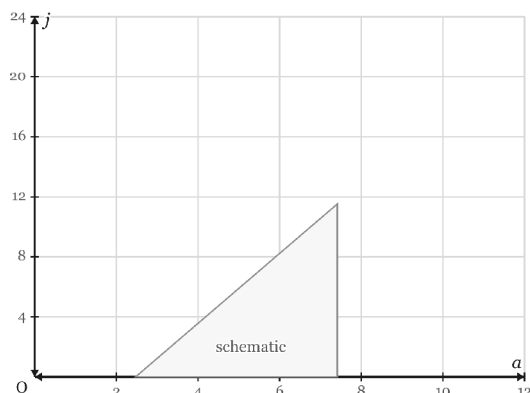
MULTIPLE CHOICE

While running, a field lantern loses charge at a steady rate, so its charge percentage depends linearly on the running time h in hours. Records show 80 percent remaining at hour 3 and 50 percent remaining at hour 9. At what running time will no charge remain?

- A) 6
- B) 14
- C) 19
- D) 95

18 LINEAR INEQUALITIES

MULTIPLE CHOICE



At an aquaculture lab, Tomasz tracks two tanks. The number of juvenile fish j can be no more than 8 fewer than triple the number of adult fish a . Which inequality represents this constraint?

- A) $j \geq 3a - 8$
- B) $j \leq 3a - 8$
- C) $j \leq 8 - 3a$
- D) $j \leq 3(a - 8)$

19 LINEAR EQUATIONS IN ONE VARIABLE

MULTIPLE CHOICE

The Vellora reservoir held 8,200 gallons when a drought began. During the drought it lost water steadily at 240 gallons each day. After d days, 5,320 gallons were left. Which equation could be used to find d ?

- A) $8,200 - 240d = 5,320$
- B) $8,200 + 240d = 5,320$
- C) $8,200 - 240 = 5,320d$
- D) $240d - 8,200 = 5,320$

20 PERCENTAGES

MULTIPLE CHOICE

A metalworker melts together an alloy that is 70% copper with 20 kilograms of an alloy that is 40% copper. How many kilograms of the 70% alloy are needed so that the resulting mixture is 50% copper?

- A) 8
- B) 10
- C) 12
- D) 15

21 LINEAR EQUATIONS IN ONE VARIABLE

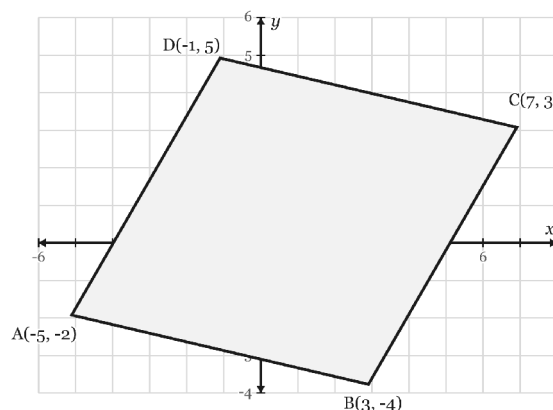
MULTIPLE CHOICE

$9(x - 3) - 2(3x + 5) = 4(x - 7)$ Let x be the number that makes this equation true. Determine the corresponding value of $6x$.

- A) 66
- B) -9
- C) -54
- D) -180

22 AREA AND VOLUME

MULTIPLE CHOICE



Parallelogram $ABCD$, displayed in the coordinate plane, has consecutive corners $A(-5, -2)$, $B(3, -4)$, $C(7, 3)$, and $D(-1, 5)$. Determine the number of square units enclosed by this parallelogram.

- A) 32
- B) 64
- C) 108
- D) 128



QUICK REFERENCE

Answer Key

Correct responses by section

MATH · MODULE 2 · HARD								
1 B	2 C	3 5	4 180	5 B	6 C	7 B	8 B	9 B
10 B	11 C	12 33	13 4	14 9/40	15 B	16 B	17 C	18 B
19 A	20 B	21 C	22 B					

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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