



TEST NINJAS

PRACTICE ASSESSMENT

STUDENT TEST BOOK

Test Ninjas SAT® Combined Geometry and Trigonometry • 4-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

Published by Test Ninjas

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

DOCUMENT

**Test Ninjas SAT® Combined Geometry and Trigonometry ·
4-Skill Mix Module**

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EDITION IDENTIFIER

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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

Geometry and Trigonometry • 4-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.

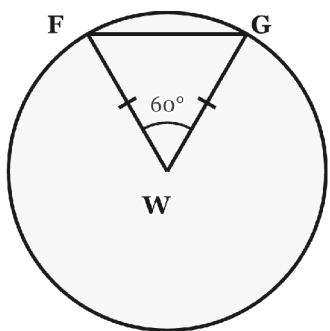
- When several answers are valid, submit only one.
- Use no more than 5 characters for a positive value or 6 for a negative value, counting the minus sign.
- If a fraction will not fit, enter an equivalent decimal.
- If a decimal is too long, truncate it or round at the fourth decimal digit.
- Rewrite 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

CIRCLES

MULTIPLE CHOICE



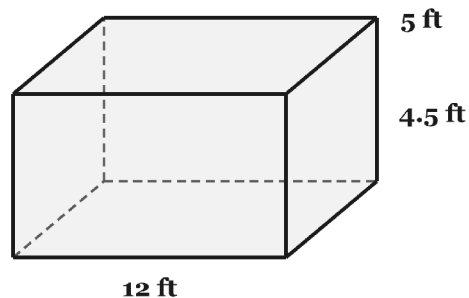
Velmara fountain: $WF = WG = 12$ feet (radii) with vertex angle 60° , as shown. Find FG , in feet.

- A) 6
- B) 12
- C) 18
- D) 24

2

AREA AND VOLUME

STUDENT-PRODUCED RESPONSE



A planter box is a right rectangular prism that is 12 feet long, 5 feet wide, and 4.5 feet tall, as shown. Find its volume in cubic feet.

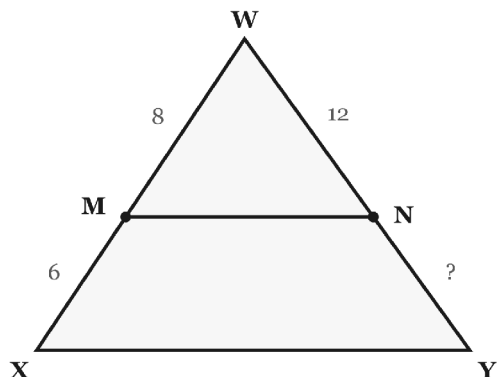
STUDENT-PRODUCED RESPONSE



3

LINES ANGLES TRIANGLES

MULTIPLE CHOICE



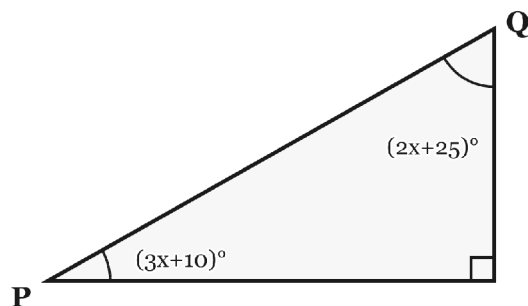
In triangle WXY , point M lies on side WX and point N lies on side WY so that segment MN is parallel to side XY . This parallel segment makes triangle WMN similar to triangle WXY . Suppose $WM = 8$, $MX = 6$, and $WN = 12$. How long is segment NY ?

- A) 6
- B) 9
- C) 10
- D) 16

4

RIGHT TRIANGLES AND TRIGONOMETRY

MULTIPLE CHOICE



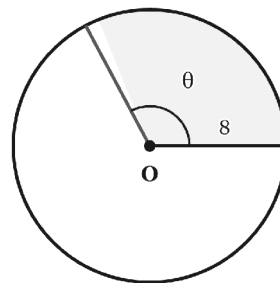
Acute angles P and Q satisfy $\sin(P) = \cos(Q)$. If P has measure $(3x + 10)^\circ$ and Q has measure $(2x + 25)^\circ$, find the degree measure of P .

- A) 11
- B) 43
- C) 47
- D) 55

5

CIRCLES

MULTIPLE CHOICE



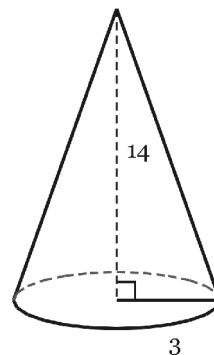
Inside a circle of radius 8, a single sector encloses an area of 20π . In radians, how large is the central angle that opens this sector?

- A) $\frac{5\pi}{16}$
- B) $\frac{5\pi}{8}$
- C) $\frac{3\pi}{4}$
- D) $\frac{7\pi}{8}$

6

AREA AND VOLUME

MULTIPLE CHOICE



A cone rises 14 inches above a circular base whose radius is 3 inches. In cubic inches, what is its volume?

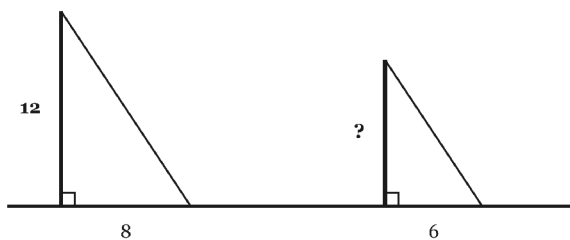
- A) 9π
- B) 14π
- C) 42π
- D) 126π



7

LINES ANGLES TRIANGLES

MULTIPLE CHOICE



A 12-foot spruce casts an 8-foot shadow. A second spruce, casting a 6-foot shadow, grows nearby. How tall is the second spruce, in feet?

- A) 4
- B) 9
- C) 10
- D) 16

8

RIGHT TRIANGLES AND TRIGONOMETRY

MULTIPLE CHOICE



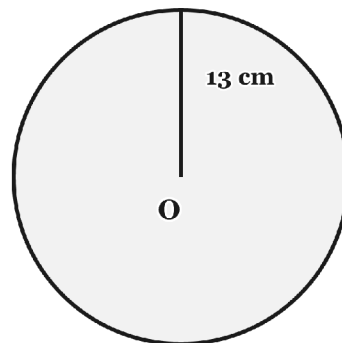
Triangle FGH is right-angled at vertex G . Its legs satisfy $FG = 35$ and $GH = 12$. Evaluate $\sin(F)$.

- A) $\frac{12}{37}$
- B) $\frac{12}{35}$
- C) $\frac{35}{37}$
- D) $\frac{37}{35}$

9

CIRCLES

MULTIPLE CHOICE



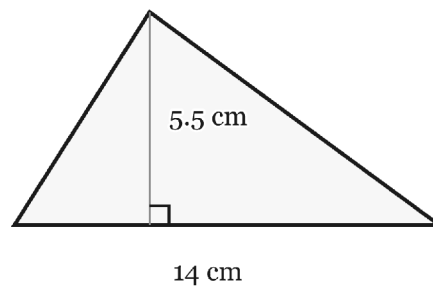
The radius of circle T is 13 centimeters. Find its diameter in centimeters.

- A) 6.5
- B) 13
- C) 26
- D) 169

10

AREA AND VOLUME

STUDENT-PRODUCED RESPONSE



In the triangle shown, the base is 14 centimeters and the height to it is 5.5 centimeters. Find the triangle area in square centimeters.

STUDENT-PRODUCED RESPONSE



QUICK REFERENCE

Answer Key

Correct responses by section

GEOMETRY AND TRIGONOMETRY · 4-SKILL MIX PRACTICE · COMBINED MODULE

1 B

2 270

3 B

4 B

5 B

6 C

7 B

8 A

9 C

10 38.5

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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