



TEST NINJAS

PRACTICE ASSESSMENT

STUDENT TEST BOOK

# Test Ninjas SAT® Full Practice Exam

Reading & Writing + Math · Four-module practice exam

98

QUESTIONS

4

MODULES

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

**134 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

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**NO TEST MATERIAL  
ON THIS PAGE**

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**TEST BEGINS**  
**ON THE NEXT PAGE**

## FULL PRACTICE EXAM · SECTION INTRODUCTION

# Reading & Writing

The Reading and Writing section contains 2 modules and 54 questions. Read each text closely and select the answer that most precisely addresses the question.

## ASSESSMENT MODULE

## Module 1

27 questions · 32 suggested minutes

## ASSESSMENT MODULE

## Module 2

27 questions · 32 suggested minutes

### How adaptive routing works on the real digital SAT

## MODULE 1

#### Broad difficulty mix

Every student begins the Reading and Writing section with a mix of easy, medium, and hard questions. Performance across this module determines the route to Module 2.

## MODULE 2

#### Performance-based route

The real exam assigns a second module whose questions are, on average, either higher or lower in difficulty. Both modules contribute to the section score.

**How this practice exam works:** This PDF is fixed rather than adaptive. Its Module 2 is intentionally harder on average and represents the higher-difficulty route. On the real exam, receiving a lower-difficulty Module 2 does not separately subtract points; it reflects Module 1 performance and is generally associated with a lower attainable score range than the higher-difficulty route.

## Before the questions

Each item is based on its accompanying passage, pair of passages, notes, or data display. Use only the information provided and mark one answer for every question.

- Read the question before comparing the answer choices.
- Return to the text whenever evidence is needed.
- Complete only the module you have been assigned.
- Do not continue past a STOP notice.

1

Read the module directions



2

Begin Reading &amp; Writing questions



## SECTION

## Reading &amp; Writing

Module 1 • 27 QUESTIONS

## DIRECTIONS

The questions in this section measure important reading and writing skills. Read each passage and question carefully, then choose the best answer based on the text. Each multiple-choice question has one correct answer.

1

WORDS IN CONTEXT

MULTIPLE CHOICE

Over the course of the school year, the art club worked steadily on a large mural for the cafeteria wall. By the final week of May, the students had \_\_\_\_\_ the project, adding the last details just in time for the spring showcase.

Which choice completes the text with the most logical and precise word or phrase?

- A) completed
- B) started
- C) delayed
- D) abandoned

2

WORDS IN CONTEXT

MULTIPLE CHOICE

The community music program does more than teach students to read notes. By having beginners rehearse alongside experienced players, the program aims to \_\_\_\_\_ a sense of collaboration, giving younger musicians mentors to learn from and older ones a chance to lead.

Which choice completes the text with the most logical and precise word or phrase?

- A) monitor
- B) mandate
- C) imitate
- D) foster

3

WORDS IN CONTEXT

MULTIPLE CHOICE

Critics often read the poet's nature imagery as pure celebration, yet the later collections resist such a tidy reading. Lines praising the wild coastline sit beside others lamenting its dangers, revealing an \_\_\_\_\_ toward the landscape that the poet never fully resolves.

Which choice completes the text with the most logical and precise word or phrase?

- A) aversion
- B) indifference
- C) ambivalence
- D) affinity

4

COMMAND OF EVIDENCE

MULTIPLE CHOICE

The following fictional work, characters, and scene were created for this question. The Weaver's Loom is a 1908 novel by Ingrid Halvorsen. Maren, an aging weaver in a Norwegian village, has spent her whole life at her loom. In this scene, Maren is portrayed as proud of the cloth she weaves yet fearful that younger villagers no longer value the craft.

Which paraphrase of the fictional scene most effectively illustrates the claim?

- A) Maren takes pride in the durability of the linen she has woven for forty years.
- B) Maren fears that no younger villager will continue the weaving craft.
- C) Maren believes her linen is the finest in the valley but worries because young villagers ignore her loom.
- D) Maren's cottage stands near the fjord at the edge of the village.



5

COMMAND OF EVIDENCE

MULTIPLE CHOICE

A public library moved its shelf of newly arrived books from a back corner to a spot beside the main entrance, where patrons pass it on their way in. Over the following months, checkouts of the newly arrived titles rose sharply. The head librarian hypothesizes that placing the new books where patrons pass on entering increases checkouts by exposing people to titles they would otherwise miss.

Which finding, if true, would most directly support the librarian's hypothesis?

- A) During the same months that the shelf was moved, the library also extended its evening hours on several nights of the week.
- B) After the shelf was moved, patrons borrowed far more of the new titles, and many said they had noticed books they had not come in intending to borrow.
- C) Patrons who visited the library most often already knew which new titles had arrived each week before they entered the building.
- D) The total number of patrons visiting the library each week stayed about the same before and after the shelf was moved to the entrance.

6

CROSS-TEXT CONNECTIONS

MULTIPLE CHOICE

## TEXT 1

When students take notes on a laptop, they can type quickly enough to record almost everything an instructor says. This ability to capture more information is a clear advantage. A complete set of notes gives students a fuller record to review later, and they no longer have to worry about missing an important point because their hand could not keep up. For learning, more complete notes are simply better notes.

## TEXT 2

Writing notes by hand forces students to slow down, since no one can write as fast as a speaker talks. Because they cannot record every word, students who write by hand must listen carefully and decide which ideas matter most. This effort to summarize, rather than to copy down everything, helps them understand and remember the material. The value of handwritten notes lies precisely in what they leave out.

Which choice best describes a difference in how the author of Text 1 and the author of Text 2 view note-taking?

- A) The author of Text 1 claims that typing notes is faster than writing them, whereas the author of Text 2 denies that any real speed difference exists.
- B) The author of Text 1 values recording information as completely as possible, whereas the author of Text 2 values selecting only the most important ideas.
- C) The author of Text 1 believes note-taking mainly benefits instructors, whereas the author of Text 2 believes it mainly benefits students.
- D) The author of Text 1 recommends reviewing notes soon after class, whereas the author of Text 2 recommends waiting before reviewing them.



7

BOUNDARIES

MULTIPLE CHOICE

Zheng He, an admiral of China's Ming dynasty, led seven massive naval expeditions in the early 1400s. Because his treasure fleet included hundreds of enormous \_\_\_\_\_ it required tens of thousands of sailors, craftsmen, and soldiers to keep the voyages running.

Which choice completes the text so that it conforms to the conventions of Standard English?

- A) ships
- B) ships,
- C) ships;
- D) ships:

8

BOUNDARIES

MULTIPLE CHOICE

In 1977, the Kenyan environmentalist Wangari Maathai founded the Green Belt Movement to combat deforestation in her home country. The organization paid rural women a small stipend for every tree seedling they successfully \_\_\_\_\_ over the following decades its members planted more than 50 million trees across Kenya.

Which choice completes the text so that it conforms to the conventions of Standard English?

- A) raised,
- B) raised, and
- C) raised and
- D) raised

9

BOUNDARIES

MULTIPLE CHOICE

The Ghanaian sculptor El Anatsui creates enormous, shimmering wall hangings out of discarded bottle caps and scraps of aluminum. He and his assistants flatten and stitch together thousands of these metal \_\_\_\_\_ transforming ordinary trash into tapestries that ripple like woven cloth.

Which choice completes the text so that it conforms to the conventions of Standard English?

- A) fragments
- B) fragments;
- C) fragments,
- D) fragments:

10

CENTRAL IDEAS AND DETAILS

MULTIPLE CHOICE

For decades, archaeologists believed that the people who lived along a certain European lakeshore during the Bronze Age had built only small, temporary camps. Recent underwater excavations, however, have revealed the wooden foundations of a large village built on stilts above the water. Alongside the posts, researchers found preserved tools, woven baskets, and stores of grain, suggesting that the community stayed in one place year-round. These findings indicate that the lakeshore settlement was far more permanent and organized than scholars had previously assumed.

Which choice best states the main idea of the text?

- A) New underwater discoveries suggest the Bronze Age lakeshore community was more settled and organized than researchers had assumed.
- B) Archaeologists uncovered woven baskets and stores of grain near the wooden posts beneath the lake.
- C) Most Bronze Age communities across Europe built their villages on wooden stilts above the water.
- D) Underwater excavations confirmed that the lakeshore people had built only small, temporary seasonal camps.



11

CENTRAL IDEAS AND DETAILS

MULTIPLE CHOICE

The muralist Judith Baca is best known for a project that stretches for half a mile along a concrete flood-control channel in Los Angeles. Rather than painting the enormous work alone, Baca invited hundreds of young people from the surrounding neighborhoods to help design and paint it. Together they created scenes depicting the history of California's diverse communities, including stories often left out of textbooks. For Baca, involving local residents was not simply a practical solution but a central goal: she wanted the mural to reflect the voices of the people who lived nearby.

What does the text indicate about Baca's decision to involve local young people in the mural project?

- A) It was necessary because Baca could not paint such an enormous mural entirely on her own.
- B) It was intended mainly to train the young participants for future careers as professional artists.
- C) It slowed the project considerably but improved the accuracy of the historical scenes depicted.
- D) It reflected a central artistic goal, not merely a practical way to complete a large work.

12

RHETORICAL SYNTHESIS

MULTIPLE CHOICE

While researching a topic, a student has taken the following notes:

- Working memory is the mental system that briefly holds and manipulates information while a person completes a task.
- Some students prefer to study while listening to music with lyrics.
- Psychologist Dr. Marcus Feld studied 120 students memorizing lists of words under different conditions.
- Students who studied in silence recalled an average of 9 words, while those who studied with lyrical music recalled an average of 6.
- Feld concluded that processing song lyrics competes for the same mental resources used to memorize words.

The student wants to present the study's findings to an audience already familiar with working memory. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A) Working memory, the system that briefly holds and manipulates information, can be strained when a person tries to memorize words while listening to music.
- B) Dr. Feld studied 120 students who memorized lists of words either in silence or while listening to music that contained lyrics.
- C) In Dr. Feld's study, students who memorized words in silence recalled an average of 9 words, compared with only 6 for those who listened to lyrical music.
- D) Because song lyrics and word lists draw on the same limited mental resources, students may struggle to memorize while listening to music with lyrics.





## 13 RHETORICAL SYNTHESIS

## MULTIPLE CHOICE

While researching a topic, a student has taken the following notes:

- Beavers build dams across streams using branches, mud, and stones.
- These dams slow the flow of water and spread it into ponds and wetlands behind the dam.
- Water stored in these ponds soaks slowly into the ground and is released gradually over time.
- In some regions, beavers have been removed to open up land for farming and development.
- After heavy rains, streams without dams carry water downstream quickly and all at once.

The student wants to explain why removing beavers from a watershed can increase the risk of flooding downstream. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A) Beavers build dams from branches, mud, and stones that slow the flow of water and spread it into ponds and wetlands.
- B) In some regions, beavers have been removed from streams in order to open up land for farming and development.
- C) Water stored behind beaver dams soaks slowly into the ground and is released gradually rather than all at once.
- D) Without beaver dams to slow and store water, streams carry heavy rainfall downstream quickly and all at once, raising the risk of flooding.

## 14 RHETORICAL SYNTHESIS

## MULTIPLE CHOICE

While researching a topic, a student has taken the following notes:

- Most electric vehicles today run on lithium-ion batteries, which store about 250 watt-hours of energy per kilogram (Wh/kg).
- Solid-state batteries replace the liquid inside a battery with a solid material, allowing more energy to be packed into the same weight.
- In 2015, experimental solid-state cells stored roughly 300 Wh/kg.
- By 2023, laboratory solid-state cells reached about 400 Wh/kg.
- Manufacturers cannot yet produce solid-state batteries cheaply enough for widespread use in vehicles.

The student wants to emphasize the rapid improvement in the energy density of solid-state batteries while acknowledging a remaining obstacle. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A) Solid-state cells have advanced from roughly 300 Wh/kg in 2015 to about 400 Wh/kg in 2023, surpassing lithium-ion batteries, though they remain too costly to manufacture for widespread use.
- B) While lithium-ion batteries store about 250 Wh/kg, laboratory solid-state cells have reached roughly 400 Wh/kg by replacing the battery's liquid with a solid material.
- C) Solid-state batteries represent a major advance in energy storage, holding more and more energy in each kilogram with every passing year.
- D) Laboratory solid-state cells now reach about 400 Wh/kg, but manufacturers cannot yet produce them cheaply enough for widespread use in vehicles.



## 15 TEXT STRUCTURE AND PURPOSE

## MULTIPLE CHOICE

Honeybees perform a 'waggle dance' to tell nest-mates the direction and distance of food, and biologists long assumed that bees carry out this complex dance accurately without social learning. A study by Shihao Dong and colleagues complicated that view. The researchers raised young bees without experienced dancers to observe. These isolated bees still danced, but their direction signals were less accurate at first and improved with experience, whereas their distance signals remained less accurate in adulthood than those of bees raised with experienced dancers. The findings suggest that individual practice can improve direction signaling while social learning helps calibrate distance.

Which choice best describes the overall structure of the text?

- A) It presents two competing theories about bees, then explains why researchers now favor one of them.
- B) It outlines the steps of an experiment, then proposes a new hypothesis to be tested in later work.
- C) It reports a surprising discovery about bees, then argues that earlier research on the topic was fraudulent.
- D) It describes a long-held assumption, then presents a study whose findings complicate that assumption.

## 16 TEXT STRUCTURE AND PURPOSE

## MULTIPLE CHOICE

For decades, paleontologists pictured the giant predatory dinosaur Spinosaurus as a land animal that only occasionally waded into rivers. In 2020, a team led by Nizar Ibrahim unearthed a nearly complete Spinosaurus tail in Morocco and found that it was tall, flexible, and shaped like a paddle. When the researchers built a model of the tail and tested it in water, it produced far more thrust than the tails of land-dwelling dinosaurs did. This evidence indicated that Spinosaurus was a capable swimmer, and it offered some of the strongest support yet for the idea that at least one dinosaur was adapted to hunting in the water.

Which choice best describes the overall structure of the text?

- A) It describes a series of failed experiments, then explains why a new approach finally succeeded.
- B) It describes how researchers made a discovery, then explains the significance of that discovery.
- C) It presents a widely accepted claim, then provides several examples that clearly support it.
- D) It poses a question about an animal, then rejects the most common answer to that question.



## 17 TEXT STRUCTURE AND PURPOSE

## MULTIPLE CHOICE

Behavioral ecologist Ana Restrepo found that Trinidadian guppies living in streams full of predators form tighter, more coordinated schools than guppies from predator-free streams do, a difference that makes sense in terms of costs and benefits: swimming in a dense group lowers any single fish's chance of being eaten, a benefit that outweighs the cost of competing more closely for food. Most small freshwater fish that face heavy predation respond in the same way, tightening their schools where predators are common. The killifish of these streams, however, show the opposite pattern, loosening their groups where predators abound. Because killifish ambush prey from concealment rather than filter food from open water, staying spread out and hidden shifts their balance of risk and reward toward dispersal rather than the safety of a crowd.

Which choice best describes the overall structure of the text?

- A) It introduces an observed behavior, offers an explanation for it, and then presents an exception that casts doubt on that explanation.
- B) It presents a finding, notes that it resembles the results of other studies, and then blames a conflicting result on flawed methods.
- C) It reports and explains a finding, presents that finding as typical of a broader group, and then describes and accounts for an exception.
- D) It describes two opposite behaviors, explains one of them, and then suggests that the other behavior still has no known explanation.

## 18 INFERENCES

## MULTIPLE CHOICE

Many animals that are poisonous to eat display bright colors, and biologists have long treated vivid coloring as a dependable warning that a creature is toxic. Studying frogs in a Central American rainforest, researcher Ana Villanueva catalogued dozens of brightly colored species. She found that a large share of these vivid frogs carried no toxins at all; instead, their coloring closely mimicked that of nearby poisonous species, letting the harmless frogs avoid predators without being dangerous themselves. Villanueva's findings cast doubt on the idea that \_\_\_\_\_

Which choice most logically completes the text?

- A) some brightly colored frogs in the rainforest do produce toxins that discourage predators from eating them.
- B) predators in the rainforest rely more on color than on smell when they choose which prey to pursue.
- C) a harmless frog can benefit from closely resembling a poisonous species that predators have learned to avoid.
- D) a rainforest animal's bright coloring can reliably be taken as evidence that the animal is poisonous to eat.



19 INFERENCES

MULTIPLE CHOICE

Among the Aztecs of central Mexico, cacao beans served as a common form of money, exchanged for goods in bustling marketplaces. Spanish observers in the sixteenth century recorded that a single rabbit might cost around thirty beans. Archaeologists have also uncovered counterfeit beans from the period: hollow bean shells carefully packed with clay or wax to imitate the weight and shape of the real thing. Because producing such fakes took genuine effort and skill, it's reasonable to conclude that \_\_\_\_\_

Which choice most logically completes the text?

- A) the Aztecs traded a far wider variety of goods in their marketplaces than the Spanish had expected to find.
- B) cacao beans were valuable enough that some people found it worthwhile to create convincing imitations of them.
- C) counterfeit beans were generally accepted in Aztec markets more readily than genuine cacao beans were.
- D) Spanish observers struggled to understand how the Aztec system of exchanging goods actually worked.

20 COMMAND OF EVIDENCE (QUANTITATIVE)

MULTIPLE CHOICE

Keyboarding instructor Lena Kowalczyk wanted to know whether the students who typed the fastest also made the fewest mistakes. She gave six students the same timed passage and recorded, for each student, the typing speed in words per minute, the error rate in errors per 100 words, and the length of the practice session that preceded the test. Reviewing the results, Kowalczyk noticed that speed and accuracy did not always go together. She pointed out that the student with the highest typing speed did not have the lowest error rate.

Typing Test Results for Six Students

| Student | Typing speed<br>(words per minute) | Error rate<br>(errors per 100 words) | Practice session<br>length (minutes) |
|---------|------------------------------------|--------------------------------------|--------------------------------------|
| Alvarez | 82                                 | 6                                    | 10                                   |
| Boateng | 68                                 | 2                                    | 10                                   |
| Chen    | 75                                 | 4                                    | 12                                   |
| Duval   | 90                                 | 5                                    | 8                                    |
| Ferro   | 71                                 | 3                                    | 15                                   |
| Nguyen  | 79                                 | 7                                    | 9                                    |

Which choice best describes data from the table that support the underlined claim?

- A) Duval had the highest typing speed, 90 words per minute, but Duval's error rate of 5 errors per 100 words was higher than the lowest rate, Boateng's 2 errors per 100 words.
- B) Boateng had both the highest typing speed, 90 words per minute, and the lowest error rate, 2 errors per 100 words, of the six students in Kowalczyk's typing study.
- C) Duval completed the practice session in the shortest time, 8 minutes, and also recorded the highest typing speed, 90 words per minute, of the six students in the study.
- D) Duval had the highest typing speed, 90 words per minute, and also the lowest error rate, 5 errors per 100 words, of the six students in Kowalczyk's typing study.



21 TRANSITIONS

MULTIPLE CHOICE

In the tropical city of Singapore, a growing number of schools have planted lush gardens across their flat rooftops. The thick layer of soil and greenery blocks much of the sunlight that would otherwise beat down on the buildings and heat them up. \_\_\_\_\_ the classrooms directly below these gardens stay noticeably cooler, and the schools spend far less on air conditioning.

Which choice completes the text with the most logical transition?

- A) For example,
- B) As a result,
- C) However,
- D) Meanwhile,

22 TRANSITIONS

MULTIPLE CHOICE

A 2023 study measured summer temperatures in two neighborhoods of the same city. In the older neighborhood, tall trees shaded nearly every street, and the afternoon air stayed relatively mild even during heat waves. \_\_\_\_\_ the newer neighborhood, with few trees and wide stretches of pavement, grew several degrees hotter on those same afternoons.

Which choice completes the text with the most logical transition?

- A) By contrast,
- B) As a result,
- C) For instance,
- D) In addition,

23 TRANSITIONS

MULTIPLE CHOICE

The Portuguese artist Bordalo II builds enormous animal sculptures out of the trash he collects from city streets and shorelines. For a recent piece, he chose to portray an endangered coastal bird using nothing but discarded plastic. \_\_\_\_\_ he assembled the bird's towering form entirely from broken buckets, tangled fishing nets, and cracked pipes salvaged from the nearby harbor.

Which choice completes the text with the most logical transition?

- A) Nevertheless,
- B) Specifically,
- C) In comparison,
- D) As a result,

24 FORM, STRUCTURE, AND SENSE

MULTIPLE CHOICE

Carved directly into towering rose-colored cliffs, the ancient city of Petra in southern Jordan \_\_\_\_\_ thousands of visitors each year. Its elaborate tombs and temples were built by the Nabataean people more than two thousand years ago.

Which choice completes the text so that it conforms to the conventions of Standard English?

- A) attract
- B) are attracting
- C) have attracted
- D) attracts

25 FORM, STRUCTURE, AND SENSE

MULTIPLE CHOICE

The collection of carved wooden masks displayed at a museum in Ubud, Bali, some of which are more than a century old, \_\_\_\_\_ among the most important in Indonesia. Artists and scholars travel great distances to study these objects.

Which choice completes the text so that it conforms to the conventions of Standard English?

- A) ranks
- B) rank
- C) are ranking
- D) have ranked



26 FORM, STRUCTURE, AND SENSE

MULTIPLE CHOICE

Known for their intricate geometric patterns and vivid colors, \_\_\_\_\_

Which choice completes the text so that it conforms to the conventions of Standard English?

- A) weavers in Ghana have made kente cloth a symbol of national pride.
- B) the popularity of kente cloth, produced in Ghana, has spread around the world.
- C) kente cloths produced by Akan weavers in Ghana are prized around the world.
- D) there are kente cloths, produced by Akan weavers, that are admired worldwide.

27 FORM, STRUCTURE, AND SENSE

MULTIPLE CHOICE

First performed in the royal courts of seventeenth-century France, \_\_\_\_\_

Which choice completes the text so that it conforms to the conventions of Standard English?

- A) audiences across Europe soon embraced ballet as a refined new art form.
- B) ballet, now danced on stages around the world, began as courtly entertainment.
- C) there was a graceful new art form, ballet, that quickly spread across Europe.
- D) the origins of ballet lie in the elaborate spectacles staged for aristocrats.



**NO TEST MATERIAL  
ON THIS PAGE**

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COMPLETED

**Reading & Writing · Module 1**



NEXT

**Reading & Writing · Module 2**

Do not continue until you are instructed to begin the next module.



## SECTION

## Reading &amp; Writing

Module 2 · 27 QUESTIONS

## DIRECTIONS

The questions in this section measure important reading and writing skills. Read each passage and question carefully, then choose the best answer based on the text. Each multiple-choice question has one correct answer.

1

WORDS IN CONTEXT

MULTIPLE CHOICE

The discovery of grain-storage pits at the site cannot tell us exactly what the inhabitants ate, but it does \_\_\_\_\_ that they stayed in one place long enough to gather a surplus. Earlier researchers had assumed the group was always on the move.

Which choice completes the text with the most logical and precise word or phrase?

- A) disputes
- B) establishes
- C) conceals
- D) predicts

2

WORDS IN CONTEXT

MULTIPLE CHOICE

To lend her historical novels a convincing \_\_\_\_\_, author Mariam Okafor spends months examining household inventories, letters, and court records before writing a single scene. The everyday details she uncovers — the price of candles, the slang of dockworkers — make her invented characters feel as though they truly lived.

Which choice completes the text with the most logical and precise word or phrase?

- A) verisimilitude
- B) obscurity
- C) sentimentality
- D) detachment

3

WORDS IN CONTEXT

MULTIPLE CHOICE

Faced with two equally promising job offers, Devan continued to \_\_\_\_\_ for weeks, drawn one morning to the stability of the larger firm and the next to the creative freedom of the startup. His friends grew impatient, but he simply could not commit to either path.

Which choice completes the text with the most logical and precise word or phrase?

- A) persevere
- B) capitulate
- C) improvise
- D) vacillate

4

COMMAND OF EVIDENCE

MULTIPLE CHOICE

In several cities, males of a songbird species sing longer, more elaborate songs than males of the same species living in quiet rural woods. Traffic and machinery make the urban areas far noisier than the woods. Ornithologist Priya Raman concludes that urban males sing more elaborate songs specifically in order to make themselves heard above the background noise of the city.

Which finding, if true, would most directly weaken Raman's conclusion?

- A) Urban males sang songs just as long and elaborate on quiet early mornings before traffic began, when the city was no noisier than the rural woods.
- B) Rural males that were raised near a loud stretch of highway gradually began to sing longer and more elaborate songs over time.
- C) Urban males and rural males of the species were found to be about the same size and roughly the same age on average.
- D) Female birds in the city were more likely to approach and mate with the males that sang the longest and most elaborate songs.





5

COMMAND OF EVIDENCE

MULTIPLE CHOICE

Certain ants gather sugary honeydew from aphids that feed on plants. The same ants also chase away ladybugs and other insects that prey on the aphids. Entomologist Tomas Nilsson hypothesizes that the ants protect the aphids in exchange for honeydew, so that aphid colonies with more attentive ant guards should both lose fewer aphids to predators and yield more honeydew to the ants than colonies with fewer guards.

Which finding, if true, would most directly support Nilsson's hypothesis?

- A) Ants were observed carrying aphids to fresh leaves whenever the part of the plant the aphids were feeding on began to wither and dry out.
- B) Aphids produced noticeably more honeydew on warm, sunny days than on cool, cloudy ones, regardless of how many ants happened to be present.
- C) Aphid colonies guarded by many ants lost far fewer aphids to predators and yielded more honeydew to the ants than colonies guarded by few ants did.
- D) Ladybugs tended to avoid plants where ants were present, whether or not any aphids were actually living and feeding on those plants.

6

CROSS-TEXT CONNECTIONS

MULTIPLE CHOICE

## TEXT 1

The Indus Valley civilization, which flourished over four thousand years ago, left behind thousands of short inscriptions carved on seals and tablets. Because these symbols recur in consistent sequences and were used across a vast territory for centuries, most scholars conclude that they form a genuine writing system that records a spoken language, one that remains undeciphered only because no bilingual key has survived.

## TEXT 2

Steve Farmer and his colleagues question whether the Indus symbols encode language at all. Genuine scripts, they observe, reuse a manageable set of signs frequently, yet the Indus corpus contains hundreds of signs that appear only once or twice. Its inscriptions are also strikingly brief, averaging just five symbols, and none approach the longer texts that every known early script eventually produced. The symbols, they argue, may instead be nonlinguistic emblems marking clans, deities, or goods.

Based on the texts, how would Farmer and his colleagues (Text 2) most likely characterize the underlined claim in Text 1?

- A) As unjustified, because the symbols' extreme brevity and the large number of signs that appear only once or twice are unlike the features of any known system that records a spoken language.
- B) As plausible but premature, because the inscriptions could still be deciphered as language if scholars were to locate the surviving bilingual key that Text 1 says has not yet been found.
- C) As broadly correct, because the consistent sequences in which the symbols recur are exactly the kind of evidence that reliably distinguishes true writing from nonlinguistic emblems.
- D) As too cautious, because the vast territory over which the symbols were used shows that they must encode a single spoken language shared across the whole civilization.



7

BOUNDARIES

MULTIPLE CHOICE

Mansa Musa, who ruled the Mali Empire in the fourteenth century, was renowned for his staggering wealth. When he made his famous pilgrimage to Mecca, his caravan reportedly included thousands of \_\_\_\_\_ elaborately costumed attendants, and countless bags of gold.

Which choice completes the text so that it conforms to the conventions of Standard English?

- A) servants
- B) servants;
- C) servants,
- D) servants:

8

BOUNDARIES

MULTIPLE CHOICE

The development of modern rocketry owes a great deal to a largely self-taught engineer working in near isolation. Much of the mathematics that made spaceflight possible was first worked out by Russian \_\_\_\_\_ Konstantin Tsiolkovsky, a provincial schoolteacher whose equations describing rocket motion are still used by aerospace engineers today.

Which choice completes the text so that it conforms to the conventions of Standard English?

- A) scientist,
- B) scientist
- C) scientist;
- D) scientist:

9

BOUNDARIES

MULTIPLE CHOICE

When the Mexican painter Frida Kahlo was recovering from a near-fatal bus accident, she was confined to bed for months and could not attend art classes. Painting was not merely a pastime for \_\_\_\_\_ it was a means of enduring physical pain and expressing a self that illness had nearly taken from her.

Which choice completes the text so that it conforms to the conventions of Standard English?

- A) her
- B) her,
- C) her, rather,
- D) her; rather,

10

CENTRAL IDEAS AND DETAILS

MULTIPLE CHOICE

Cape ground squirrels inhabit hot, arid regions of southern Africa. Albert Bennett, Raymond Huey, and their colleagues observed a colony in the southern Kalahari and tested how the animals cope with intense sun. They found that the squirrels turn their backs to the sun and raise their bushy tails over their bodies like portable parasols. The tail's shade reduced operative environmental temperature by more than 5°C and allowed the squirrels to forage above ground for longer periods.

Which choice best describes the main idea of the text?

- A) Bennett, Huey, and their colleagues observed Cape ground squirrels in the southern Kalahari.
- B) Research shows that Cape ground squirrels use their tails as shade, reducing heat load so they can forage above ground longer.
- C) Cape ground squirrels are the only animals in southern Africa that can forage during hot daytime hours.
- D) The Cape ground squirrel's bushy tail increases its heat load and shortens the time it can forage above ground.



11

CENTRAL IDEAS AND DETAILS

MULTIPLE CHOICE

When companies advertise a new product, they often emphasize its most impressive features in the hope of attracting buyers. Economist Rafael Duarte has questioned whether this strategy always benefits the companies that use it. Analyzing thousands of customer reviews, Duarte found that when advertising set especially high expectations, buyers who were even slightly disappointed tended to rate the product more harshly than buyers whose expectations had been modest to begin with. Duarte argues that inflated promises can therefore backfire: although they may raise initial sales, they can also leave customers feeling that the product has fallen short, ultimately discouraging the repeat purchases and positive recommendations on which long-term success depends.

Which choice best states the main idea of the text?

- A) Duarte found that customers with modest expectations about a product always rate it far more favorably than others.
- B) Duarte's analysis proves that companies should avoid advertising the impressive features of their new products entirely.
- C) Duarte's analysis suggests that advertising which raises expectations too high can ultimately harm a company by leaving customers disappointed.
- D) Duarte examined thousands of customer reviews mainly to determine which product features buyers tend to consider most impressive.

12

RHETORICAL SYNTHESIS

MULTIPLE CHOICE

While researching a topic, a student has taken the following notes:

- Sound travels as waves, and two waves that are perfectly out of phase cancel each other through destructive interference.
- Noise-canceling headphones contain a small microphone that detects incoming ambient sound.
- An electronic circuit instantly generates a new sound wave that is the mirror image of the detected noise.
- This mirror-image wave is played through the headphones, where it cancels much of the ambient noise.
- The process repeats continuously, adjusting to changes in the surrounding sound.

The student wants to explain how noise-canceling headphones work to an audience already familiar with destructive interference, emphasizing that the headphones respond to noise in real time.

Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A) Because sound travels as waves, two waves that are perfectly out of phase will cancel each other through a process known as destructive interference.
- B) Noise-canceling headphones rely on a microphone, an electronic circuit, and destructive interference to reduce the amount of ambient noise a listener hears.
- C) By producing a sound wave that is the mirror image of incoming noise, noise-canceling headphones cancel much of the ambient sound around a listener.
- D) Noise-canceling headphones continuously detect ambient sound with a microphone and instantly generate mirror-image waves that cancel it, adjusting moment to moment as the surrounding noise changes.



## 13 RHETORICAL SYNTHESIS

## MULTIPLE CHOICE

While researching a topic, a student has taken the following notes:

- Forest trees compete for resources such as light, water, and nutrients.
- Tree roots can be connected to fungi in shared mycorrhizal networks.
- Isotope-tracer experiments show that carbon can move between plants connected by these fungi.
- Carbon movement alone does not show that older trees deliberately direct resources to particular seedlings.
- Reviews find limited and inconsistent evidence that network-mediated transfer improves a recipient seedling's survival or growth.

The student wants to explain how evidence about mycorrhizal networks complicates a competition-only view of forests without overstating what the evidence proves. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A) Scientists have used isotope tracers to follow carbon moving between plants whose roots connect to shared mycorrhizal fungi.
- B) Mycorrhizal networks consist of fungi that can connect the roots of different plants beneath a forest floor.
- C) Although forest trees compete, tracer studies show that carbon can move between plants through mycorrhizal networks; however, that movement alone does not prove deliberate sharing or improved seedling survival.
- D) Older trees deliberately send carbon through fungal networks to selected seedlings, ensuring that those seedlings survive their first years.

## 14 RHETORICAL SYNTHESIS

## MULTIPLE CHOICE

While researching a topic, a student has taken the following notes:

- A geodesic dome is a rounded structure whose surface is divided into a network of triangles.
- Popularized by designer Buckminster Fuller in the mid-1900s, such domes can span large spaces without interior support columns.
- A triangle is the only shape that cannot be pushed out of form without bending one of its sides.
- When a load presses on a geodesic dome, the triangles spread that force evenly across the whole structure.
- As a result, a geodesic dome can be built from relatively little material yet still support heavy loads.

The student wants to explain why a geodesic dome can support heavy loads despite being built from relatively little material. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A) A geodesic dome is a rounded structure, popularized by Buckminster Fuller, whose surface is divided into a network of many triangles.
- B) Because a geodesic dome's triangles hold their form and spread any load evenly across the structure, the dome can bear heavy weight while using little material.
- C) Popularized by designer Buckminster Fuller in the mid-1900s, geodesic domes can span large spaces without the need for interior support columns.
- D) A triangle is the only shape that cannot be pushed out of form without bending one of its sides, which makes it a useful shape in construction.



## 15 TEXT STRUCTURE AND PURPOSE

## MULTIPLE CHOICE

The following text is adapted from Edith Wharton's 1905 novel *The House of Mirth*. Lily Bart, a young woman known throughout fashionable New York society for her beauty, is being observed at a crowded train station by an acquaintance, Lawrence Selden.

Selden paused in surprise. In the afternoon rush of the station his eyes had been refreshed by the sight of Miss Lily Bart. Her charm seemed the natural fruit of a careful design, as if a great many dull and ugly people had somehow been sacrificed to produce her. He was aware that the qualities distinguishing her from the herd of her sex were chiefly external: as though a fine glaze of beauty and fastidiousness had been applied to vulgar clay.

Which choice best describes the function of the underlined portion in the text as a whole?

- A) It emphasizes Selden's certainty that Lily is unlike anyone he has ever encountered before.
- B) It qualifies the admiring description of Lily by hinting that her refinement may be only surface-deep.
- C) It reveals that Selden has secretly disliked Lily for many years despite her reputation.
- D) It explains why Lily has chosen to travel alone through the crowded station that afternoon.

## 16 TEXT STRUCTURE AND PURPOSE

## MULTIPLE CHOICE

Popular accounts often claim that growing up bilingual gives children a powerful, general boost in mental control that lasts a lifetime, but this idea deserves scrutiny. Consider a large 2015 review by Kenneth Paap and colleagues, who examined dozens of experiments comparing bilingual and monolingual participants on tasks measuring attention and self-control. Early, smaller studies had frequently reported a bilingual advantage, and those results were widely publicized. Yet when Paap's team pooled the evidence, the supposed advantage all but disappeared: most well-designed studies showed no reliable difference between the groups, and the positive findings tended to come from studies with very few participants. The pattern suggests that a striking claim can spread widely before the accumulated evidence is weighed carefully.

Which choice best states the main purpose of the text?

- A) To argue that growing up bilingual offers children no meaningful cognitive benefits of any kind
- B) To explain the specific statistical methods that Paap and colleagues used to combine study data
- C) To trace the history of how researchers first became interested in the effects of bilingualism
- D) To use a review of bilingualism research to illustrate why sweeping claims should be treated cautiously



17

TEXT STRUCTURE AND PURPOSE

MULTIPLE CHOICE

In Henry James's 1881 novel *The Portrait of a Lady*, the grandeur of an old English country house reaches the reader almost entirely as it strikes the eager, inexperienced eye of the young American visitor Isabel Archer, who wanders its lawns and galleries and takes in each new impression with wondering delight; this filtering of the whole scene through Isabel's individual perceptions illustrates what narrative theorist Gerard Genette called 'focalization,' a technique of restricting a story's presentation to a single center of consciousness through which readers gradually come to know its characters and events.

Which choice best describes the function of the underlined portion in the text as a whole?

- A) It states a claim about James's narrative skill that is supported by an example given in the following portion.
- B) It advances a reading of Isabel Archer that contrasts her with narrators James created in his other novels.
- C) It identifies a recurring theme in James's fiction that a narrative theorist later set out to challenge.
- D) It links a description of a scene in a James novel to a narrative concept that the following portion explains.

18

INFERENCES

MULTIPLE CHOICE

To map the underground root systems of large trees, researchers have traditionally relied on excavation, carefully digging away the surrounding soil to expose and measure the roots. This approach yields detailed measurements, but freeing the roots from the soil inevitably damages them and disturbs the site. In a recent study, botanist Priya Nair showed that ground-penetrating radar, which sends pulses of energy into the soil and records their reflections, can chart a root system's structure repeatedly as it grows across several seasons, something that is impossible with excavation because \_\_\_\_\_

Which choice most logically completes the text?

- A) digging away the soil to expose a tree's roots damages them, so the same system cannot be measured intact again later.
- B) the radar equipment must be operated by a specialist with advanced training in both plant biology and geology.
- C) excavating the roots of a single large tree usually takes far longer than one full growing season lasts.
- D) digging in the soil near a tree tends to attract burrowing animals that feed on its freshly exposed roots.





19 INFERENCES

MULTIPLE CHOICE

Medieval and Renaissance mapmakers often filled the blank ocean spaces of their charts with elaborate drawings of sea monsters. Historian Chandler Voss notes that such images are frequently read today as evidence of the genuine fears and beliefs of the sailors and mapmakers of the era. Yet Voss points out that many of these creatures were copied directly from popular decorative pattern books and that mapmakers competed to produce charts striking enough to attract wealthy buyers. Scholars who ignore this commercial dimension when interpreting the monsters therefore —

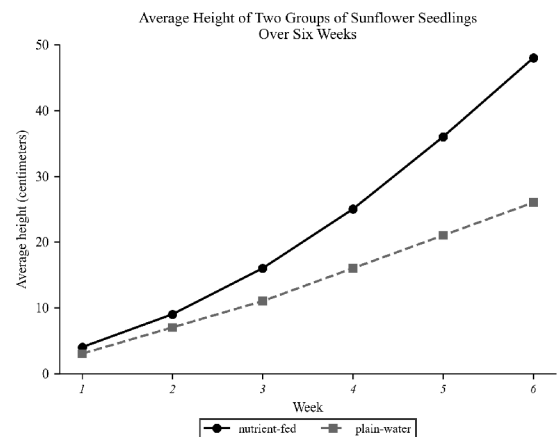
Which choice most logically completes the text?

- A) tend to assume that Renaissance mapmakers were more skilled at drawing creatures than at charting coastlines accurately.
- B) overlook the possibility that some sailors of the era genuinely feared encountering dangerous creatures out at sea.
- C) risk mistaking images included largely to decorate and sell a map for sincere expressions of what people believed.
- D) conclude that no mapmaker of the period actually believed the oceans could contain any unusual creatures at all.

20 COMMAND OF EVIDENCE (QUANTITATIVE)

MULTIPLE CHOICE

Botany student Priya Anand studied whether a diluted nutrient solution would help sunflower seedlings grow taller than plain water alone. She raised two groups of seedlings under identical light and temperature, watering one group with plain water and the other with the nutrient solution, and measured the average height of each group, in centimeters, every week for six weeks. Anand found that the nutrient solution helped throughout the experiment and that its advantage became more pronounced over time. She concluded that the nutrient-fed seedlings were taller than the plain-water seedlings in every week, and the difference between the two groups grew larger over the six weeks.



Which choice best describes data from the graph that support the underlined claim?

- A) The plain-water seedlings were taller than the nutrient-fed seedlings in every week, and the gap between the two groups widened steadily from week one to week six.
- B) In week six, the nutrient-fed seedlings reached 48 centimeters while the plain-water seedlings reached 26 centimeters, a difference of 22 centimeters between the two groups.
- C) The nutrient-fed seedlings were taller than the plain-water seedlings in every week, but the difference between the two groups stayed near 5 centimeters across the six weeks.
- D) The nutrient-fed seedlings were taller than the plain-water seedlings in every week, and the gap widened from 1 centimeter in week one to 22 centimeters in week six.



21 TRANSITIONS

MULTIPLE CHOICE

To harvest salt by hand, workers along the coast of Portugal first guide seawater into a series of shallow clay ponds. Next, they let the warm sun and steady wind evaporate the water over several days until glittering crystals form on the surface. \_\_\_\_\_ they carefully rake the crystals into small mounds and gather them to dry.

Which choice completes the text with the most logical transition?

- A) Instead,
- B) Likewise,
- C) Finally,
- D) For example,

22 TRANSITIONS

MULTIPLE CHOICE

It would be easy to assume that the deep-sea anglerfish, which lives in waters that sunlight can never reach, must spend its entire life in total darkness. \_\_\_\_\_ the ocean depths flicker with light produced by the creatures themselves, and the anglerfish dangles a glowing lure of its own to draw unsuspecting prey toward its jaws.

Which choice completes the text with the most logical transition?

- A) In addition,
- B) For this reason,
- C) On the contrary,
- D) Therefore,

23 TRANSITIONS

MULTIPLE CHOICE

In 1912 the German scientist Alfred Wegener argued that Earth's continents had once been joined in a single landmass and had slowly drifted apart. He gathered striking evidence, pointing to matching rock formations and fossils on coastlines separated by vast oceans. \_\_\_\_\_ Wegener could not explain what force might push entire continents across the globe, and most geologists rejected his theory for decades.

Which choice completes the text with the most logical transition?

- A) Therefore,
- B) Nevertheless,
- C) Likewise,
- D) In short,

24 FORM, STRUCTURE, AND SENSE

MULTIPLE CHOICE

The chameleon is well known for its ability to change color. Because of the \_\_\_\_\_ specialized skin cells, which contain tiny crystals that reflect light in different ways, this reptile can shift its appearance within seconds.

Which choice completes the text so that it conforms to the conventions of Standard English?

- A) chameleons
- B) chameleon's
- C) chameleons'
- D) chameleon

25 FORM, STRUCTURE, AND SENSE

MULTIPLE CHOICE

In 1968, American athlete Dick Fosbury introduced a revolutionary high-jump technique at the Mexico City Olympics, \_\_\_\_\_ the way future athletes would approach the event. His backward leap, now called the Fosbury Flop, is used by nearly every elite jumper today.

Which choice completes the text so that it conforms to the conventions of Standard English?

- A) changed
- B) had changed
- C) changes
- D) changing

26 FORM, STRUCTURE, AND SENSE

MULTIPLE CHOICE

By the time Nigerian writer Buchi Emecheta's second novel, *Second-Class Citizen*, appeared in 1974, she \_\_\_\_\_ *In the Ditch*, her first novel, which was published in 1972. Both books drew on the challenges she faced while raising five children in London.

Which choice completes the text so that it conforms to the conventions of Standard English?

- A) had already written
- B) already wrote
- C) was already writing
- D) already writes





27

FORM, STRUCTURE, AND SENSE

MULTIPLE CHOICE

Certain species of deep-sea anglerfish possess a fleshy, rod-like growth on their heads that, filled with glowing bacteria, \_\_\_\_\_ in the surrounding darkness to lure unsuspecting prey toward the fish's waiting jaws.

Which choice completes the text so that it conforms to the conventions of Standard English?

- A) to glow
- B) glowing
- C) having glowed
- D) glows



**NO TEST MATERIAL  
ON THIS PAGE**

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COMPLETED

**Reading & Writing · Module 2**



NEXT

**Math · Module 1**

Do not continue until you are instructed to begin the next module.

## FULL PRACTICE EXAM · SECTION INTRODUCTION

# Math

The Math section contains 2 modules and 44 questions. Work through one module at a time and stop when you reach its closing instruction.

## ASSESSMENT MODULE

## Module 1

22 questions · 35 suggested minutes

## ASSESSMENT MODULE

## Module 2

22 questions · 35 suggested minutes

### How adaptive routing works on the real digital SAT

## MODULE 1

#### Broad difficulty mix

Every student begins the Math section with a mix of easy, medium, and hard questions. Performance across this module determines the route to Module 2.

## MODULE 2

#### Performance-based route

The real exam assigns a second module whose questions are, on average, either higher or lower in difficulty. Both modules contribute to the section score.

**How this practice exam works:** This PDF is fixed rather than adaptive. Its Module 2 is intentionally harder on average and represents the higher-difficulty route. On the real exam, receiving a lower-difficulty Module 2 does not separately subtract points; it reflects Module 1 performance and is generally associated with a lower attainable score range than the higher-difficulty route.

## Before the questions

The next page contains the Math reference figures. A separate directions page follows it and explains how to mark multiple-choice and student-produced responses.

- A calculator may be used for every Math question.
- Complete only the module you have been assigned.
- Keep the reference page available while working.
- Do not continue past a STOP notice.

1

Reference figures



2

Answer directions



3

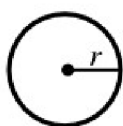
Math questions

REFERENCE INFORMATION

# Math Reference

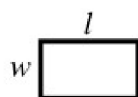
These formulas are provided for use in both Math modules.

## REFERENCE

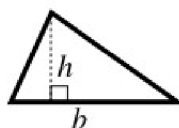


$$A = \pi r^2$$

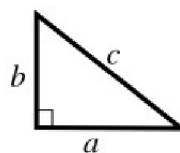
$$C = 2\pi r$$



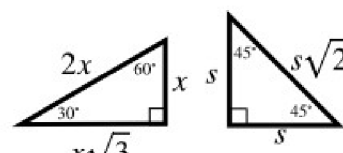
$$A = lw$$



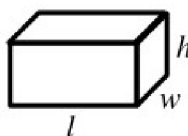
$$A = \frac{1}{2}bh$$



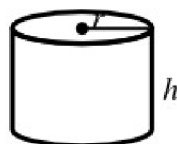
$$c^2 = a^2 + b^2$$



Special Rights Triangles



$$V = lwh$$



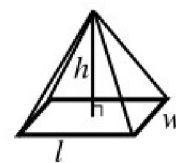
$$V = \pi r^2 h$$



$$V = \frac{4}{3}\pi r^3$$



$$V = \frac{1}{3}\pi r^2 h$$



$$V = \frac{1}{3}lwh$$

The number of degrees of arc in a circle is 360.

The number of radians of arc in a circle is  $2\pi$ .

The sum of the measures in degrees of the angles of a triangle is 180.

Keep this page available You may refer to it throughout the Math section.

## READ BEFORE BEGINNING MODULE 1

# How to Record Math Answers

Use the following rules for both Math modules. Your work may appear anywhere in the question area, but make your final answer unmistakable.

**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.

**Ready to begin?** | Turn the page and start with Question 1 of Math Module 1.



## SECTION

## Math

Module 1 • 22 QUESTIONS

## BEGIN MODULE

Start with question 1 below. The Math directions and reference information on the preceding pages apply throughout this module.

## 1 PERCENTAGES

## STUDENT-PRODUCED RESPONSE

At the Sandpiper Bistro, a meal costs 45 dollars before tax. With an 8% sales tax applied, how many dollars does the meal cost in total?

STUDENT-PRODUCED RESPONSE

## 2 LINEAR EQUATIONS IN TWO VARIABLES

## STUDENT-PRODUCED RESPONSE

Take the line  $y = 2x + 8$  in the coordinate plane and lower the entire line by 12 units. At the point where the new line crosses the  $x$ -axis, what is the  $x$ -value?

STUDENT-PRODUCED RESPONSE

## 3 LINEAR FUNCTIONS

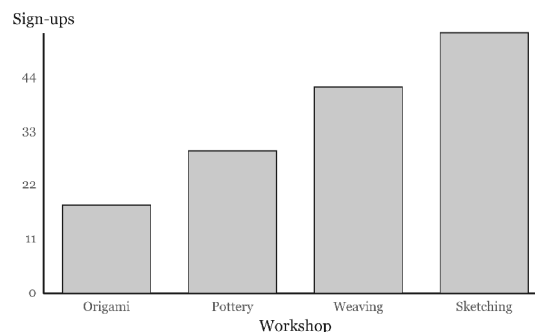
## MULTIPLE CHOICE

Priya opens a reading-rewards balance at the Halworth Library holding 50 dollars. Each week she adds another 6 dollars to it. After  $w$  such weeks, the balance equals  $t$  dollars. Which equation fits this situation?

- A)  $t = 50w$
- B)  $t = 50w + 6$
- C)  $t = 6w + 50$
- D)  $t = 56w$

## 4 ONE VARIABLE DATA

## MULTIPLE CHOICE



At the Castellan arts fair, attendees signed up for one workshop each. The bar graph shows the sign-ups, which are 18 for Origami, 29 for Pottery, 42 for Weaving, and 53 for Sketching. How many attendees signed up for the Pottery workshop?

- A) 18
- B) 29
- C) 42
- D) 53

## 5 NONLINEAR EQUATIONS

## MULTIPLE CHOICE

$|x - 5| + 2 = 11$  Which of the choices gives the value of  $x$  that is below zero?

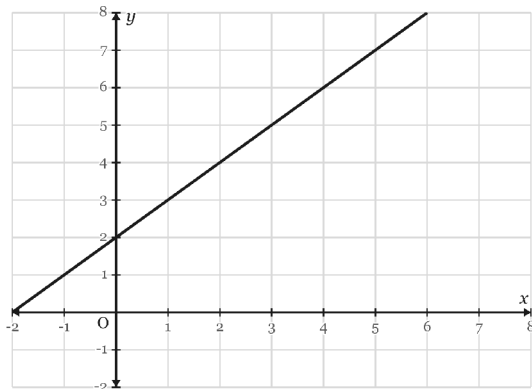
- A) -14
- B) -4
- C) 4
- D) 14



6

LINEAR EQUATIONS IN TWO VARIABLES

MULTIPLE CHOICE



The graphed line gets lifted upward by 4 units. At what  $y$ -value will the lifted line cross the  $y$ -axis?

- A) -2
- B) 2
- C) 6
- D) 10

7

EQUIVALENT EXPRESSIONS

MULTIPLE CHOICE

Here  $x^2 + 12x + 40$  is rewritten as  $(x + a)^2 + b$ . Determine the sum  $a + b$ .

- A) 4
- B) 6
- C) 10
- D) 24

8

LINEAR EQUATIONS IN ONE VARIABLE

STUDENT-PRODUCED RESPONSE

Suppose  $t$  satisfies  $3(2t - 5) = 4t + 7$ . What does  $2t$  equal?

STUDENT-PRODUCED RESPONSE

---

9

LINEAR EQUATIONS IN ONE VARIABLE

STUDENT-PRODUCED RESPONSE

Solve the proportion  $\frac{2x-1}{5} = \frac{x+4}{4}$  for  $x$ .

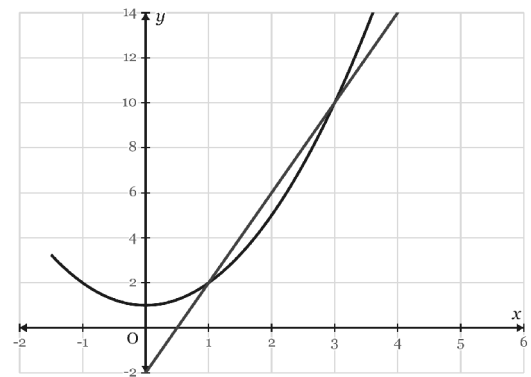
STUDENT-PRODUCED RESPONSE

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10

NONLINEAR EQUATIONS

MULTIPLE CHOICE



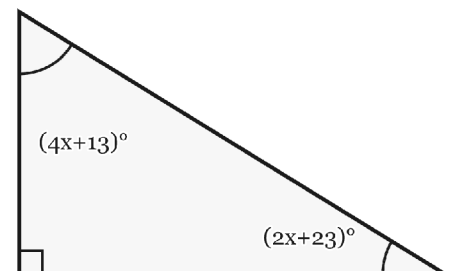
$y = x^2 + 1$   $y = 4x - 2$  These curves meet at two points. Report the larger  $x$ -coordinate of the two.

- A) 1
- B) 2
- C) 3
- D) 5

11

RIGHT TRIANGLES AND TRIGONOMETRY

MULTIPLE CHOICE



In the right triangle shown, the acute angles are  $(4x + 13)^\circ$  and  $(2x + 23)^\circ$ . Give the degree measure of the smaller acute angle.

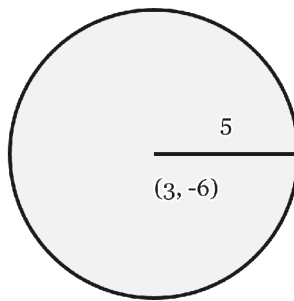
- A) 9
- B) 33
- C) 41
- D) 49





## 12 CIRCLES

MULTIPLE CHOICE



In the  $xy$ -plane, a circle with center  $(3, -6)$  and radius 5 is expanded into general form  $x^2 + y^2 + ax + by + c = 0$ . Find  $c$ .

- A)  $-20$
- B)  $20$
- C)  $40$
- D)  $70$

## 13 NONLINEAR FUNCTIONS

MULTIPLE CHOICE

A quantity is described by the factored rule  $p(x) = (x - 3)(x + 5)$  across a range of inputs. After substituting, what number does  $p(2)$  work out to?

- A)  $-7$
- B)  $-1$
- C)  $6$
- D)  $15$

## 14 NONLINEAR EQUATIONS

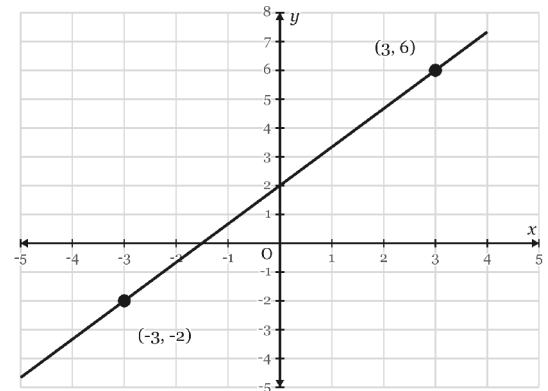
MULTIPLE CHOICE

$x^2 + 2x - 35 = 0$  Of the two solutions to the given equation, what is the greater value?

- A)  $-7$
- B)  $-5$
- C)  $5$
- D)  $7$

## 15 LINEAR EQUATIONS IN TWO VARIABLES

MULTIPLE CHOICE



Line  $t$  is graphed in the coordinate plane, and two points on it are  $(-3, -2)$  and  $(3, 6)$ . Line  $t$  has what slope?

- A)  $-\frac{4}{3}$
- B)  $\frac{3}{4}$
- C)  $\frac{4}{3}$
- D)  $\frac{16}{3}$

## 16 RATIOS RATES PROPORTIONS

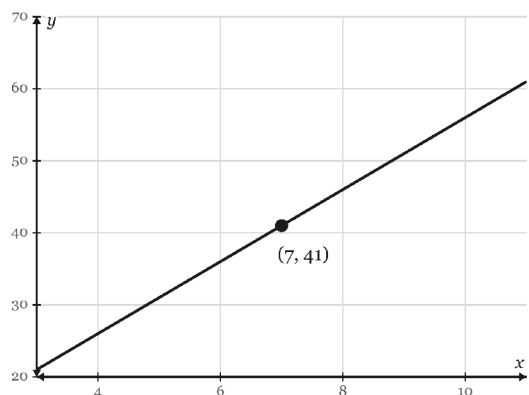
MULTIPLE CHOICE

The Brindale pump moves water at a constant rate of 5,400 liters per hour. Which rate listed below is equivalent to the pump's rate?

- A) 0.0625 liters per second
- B) 1.5 liters per second
- C) 90 liters per second
- D) 5,400 liters per second

## 17 LINEAR FUNCTIONS

MULTIPLE CHOICE



On the coordinate plane below, a straight line represents  $f(x) = 5x + b$  with  $b$  unknown. One labeled location on this line is  $(7, 41)$ . Work out  $b$ .

- A)  $-6$
- B)  $6$
- C)  $7$
- D)  $41$

## 18 EQUIVALENT EXPRESSIONS

STUDENT-PRODUCED RESPONSE

Suppose  $84x^6 - 60x^5$  can be written as  $kx^5(7x - 5)$  for some constant  $k$ . Find  $k$ .

STUDENT-PRODUCED RESPONSE

## 19 LINEAR EQUATIONS IN ONE VARIABLE

STUDENT-PRODUCED RESPONSE

$$7(2m - 3) - 11(2m - 3) = -52$$

The two terms displayed share an identical grouped factor. Without first isolating  $m$ , report the value of the quantity  $2m - 3$ .

STUDENT-PRODUCED RESPONSE

## 20 TWO VARIABLE DATA

MULTIPLE CHOICE

The table gives the daily profit  $y$ , in dollars, that the Mirelda cart earns when it sets the price of a pastry at  $x$  dollars. Of the following, which equation best models the relationship between  $x$  and  $y$  in the table?

| Price, $x$ | Profit, $y$ |
|------------|-------------|
| 0          | 12          |
| 1          | 4           |
| 2          | 0           |
| 3          | 0           |
| 4          | 4           |
| 5          | 12          |

- A)  $y = 12 - 10x$
- B)  $y = 12(0.25)^x$
- C)  $y = 2x^2 - 10x + 12$
- D)  $y = 4(1.5)^x$

## 21 NONLINEAR FUNCTIONS

MULTIPLE CHOICE

A quadratic follows the rule  $f(x) = a(x - 4)^2 + k$  for constants  $a$  and  $k$ . Its graph has a turning point at  $(4, -3)$  and also includes  $(6, 5)$ . Find  $a$ .

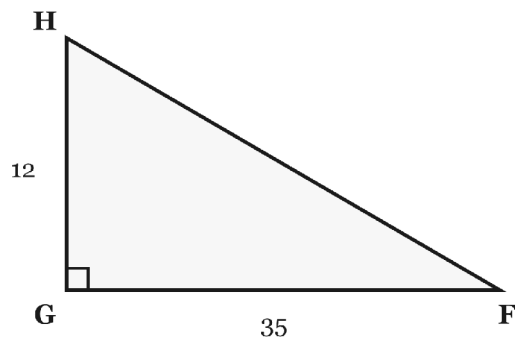
- A)  $-2$
- B)  $1$
- C)  $2$
- D)  $4$



22

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)  $\frac{37}{35}$



**NO TEST MATERIAL  
ON THIS PAGE**

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**COMPLETED**

**Math · Module 1**



**NEXT**

**Math · Module 2**

Do not continue until you are instructed to begin the next module.



## SECTION

## Math

Module 2 · 22 QUESTIONS

## BEGIN MODULE

Start with question 1 below. The Math directions and reference information on the preceding pages apply throughout this module.

## 1 INFERENCE FROM SAMPLE STATISTICS

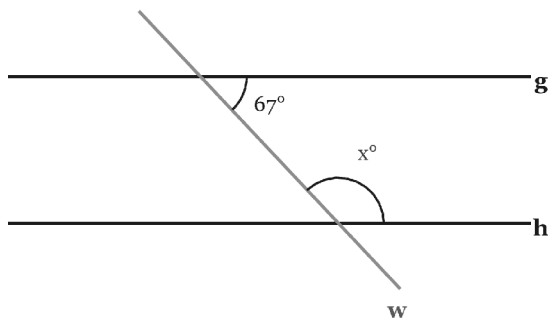
MULTIPLE CHOICE

At the Brimmer trailhead, a ranger stopped a randomly chosen set of weekend hikers and recorded how far each person had walked along the loop. The figures pointed to a typical walk of about 7.5 miles, with the margin of error placed at 0.6 miles. Which reading of this result is the best one to draw?

- A) Every single hiker walked between 6.9 and 8.1 miles.
- B) The typical walk is exactly 7.5 miles.
- C) The typical walk could reasonably be between 6.9 and 8.1 miles.
- D) The typical walk is reasonably longer than 8.1 miles.

## 2 LINES ANGLES TRIANGLES

MULTIPLE CHOICE

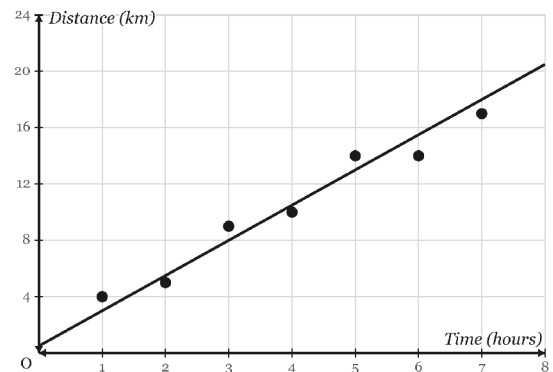


Parallel lines  $g$  and  $h$  are crossed by line  $w$ . The two shaded interior angles share a side of  $w$ . Find  $x$ .

- A) 67
- B) 103
- C) 113
- D) 123

## 3 TWO VARIABLE DATA

STUDENT-PRODUCED RESPONSE



The scatterplot shows the distance, in kilometers, a kayak traveled on the Sornova River over time, in hours, with a line of best fit. Based on the line, what is the kayak's average rate of change in distance, in kilometers per hour, from  $x = 1$  to  $x = 7$ ?

STUDENT-PRODUCED RESPONSE

## 4 LINEAR EQUATIONS IN TWO VARIABLES

STUDENT-PRODUCED RESPONSE

A line in the coordinate plane goes through both  $(0, 8)$  and  $(2, 2)$ . Written in the form  $y = mx + b$ , this line has what value of  $b$ ?

STUDENT-PRODUCED RESPONSE

## 5 NONLINEAR EQUATIONS

MULTIPLE CHOICE

$x^2 - 10x + 22 = 0$  A solution of this equation equals  $5 - \sqrt{k}$ . Determine  $k$ .

- A) 2
- B) 3
- C) 10
- D) 22



## 6 NONLINEAR EQUATIONS

MULTIPLE CHOICE

$(x - 15)(x + 15) = 0$  A student finds the larger root. Which value do they report?

- A) 0
- B) 15
- C) 30
- D) 225

## 7 LINEAR FUNCTIONS

MULTIPLE CHOICE

For the linear function  $f$ , the rule  $f(x) = \frac{3}{4}x - 5$  assigns an output to each input  $x$ . What output does the rule assign when the input is 8?

- A) -11
- B) 1
- C) 6
- D) 11

## 8 LINEAR EQUATIONS IN ONE VARIABLE

MULTIPLE CHOICE

Suppose  $\frac{3}{8}m = 27$  is a true statement. Which value listed below must  $m$  equal?

- A)  $\frac{81}{8}$
- B) 72
- C) 81
- D) 216

## 9 EQUIVALENT EXPRESSIONS

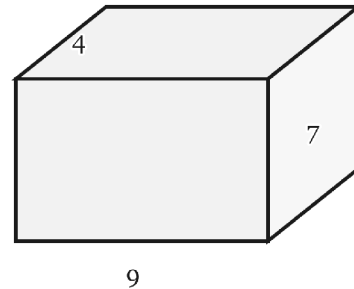
MULTIPLE CHOICE

Which binomial is a factor of the trinomial  $2x^2 + 11x + 12$ ?

- A)  $2x - 3$
- B)  $2x + 3$
- C)  $x + 6$
- D)  $x + 12$

## 10 AREA AND VOLUME

MULTIPLE CHOICE

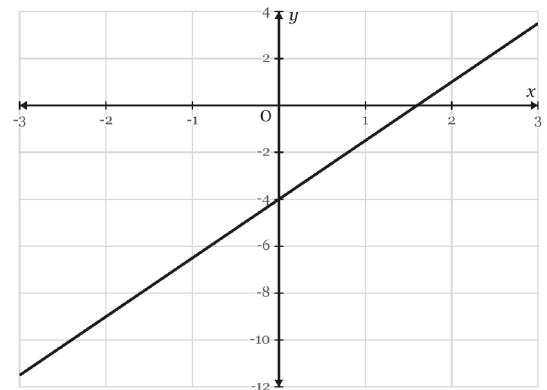


A storage box measures 9 feet long, 4 feet wide, and 7 feet tall. In cubic feet, what total volume does it hold?

- A) 20
- B) 36
- C) 252
- D) 254

## 11 LINEAR FUNCTIONS

MULTIPLE CHOICE



The line drawn in the  $xy$ -plane passes through every point  $(x, y)$  for which  $y = \frac{5}{2}x - 4$ . Using this rule, what  $y$ -value corresponds to  $x = 6$ ?

- A) -19
- B) 11
- C) 15
- D) 19



## 12 NONLINEAR EQUATIONS

STUDENT-PRODUCED RESPONSE

$6x^2 - 7x - 20 = 0$  Among the roots of this equation, what is the one that is greater than zero?

STUDENT-PRODUCED RESPONSE

## 13 NONLINEAR FUNCTIONS

STUDENT-PRODUCED RESPONSE

A study begins with 300 bacteria in a dish, and the count follows  $n(t) = 300(2)^{t/9}$ , where  $t$  is measured in hours. After how many hours does the model predict the count first reaches 1,200?

STUDENT-PRODUCED RESPONSE

## 14 PROBABILITY

STUDENT-PRODUCED RESPONSE

The table summarizes the orchids on display in the Marlowe Conservatory, classified by petal color and by whether the orchid bloomed during the spring season.

|       | Bloomed | Did not bloom | Total    |
|-------|---------|---------------|----------|
| Coral | 9       | 11            | 20       |
| Ivory | $x$     | 13            | $x + 13$ |
| Total | $9 + x$ | 24            | $33 + x$ |

Among the orchids that bloomed, an orchid picked at random is coral with probability  $\frac{3}{8}$ . Determine  $x$ .

STUDENT-PRODUCED RESPONSE

## 15 LINEAR EQUATIONS IN ONE VARIABLE

STUDENT-PRODUCED RESPONSE

Let  $m$  be a constant. For every real number  $x$ , the two sides of  $6(mx + 5) = \frac{9}{2}x + 1$  are unequal. Find  $m$ .

STUDENT-PRODUCED RESPONSE

## 16 EVALUATING STATISTICAL CLAIMS

MULTIPLE CHOICE

Two teams plan to estimate the average daily screen time of teenagers in the city of Talbridge. Team Okafor surveys 200 teenagers selected at random from city enrollment records. Team Renquist surveys 200 teenagers who happen to be at a downtown gaming arcade on a weekend afternoon. Both teams use the same questionnaire. Which statement best compares the two designs for drawing a valid conclusion about all Talbridge teenagers?

- A) Both designs support a valid conclusion because each team surveyed the very same number of teenagers.
- B) Team Renquist's design is the better one because the arcade visitors are far easier to reach and to survey.
- C) Neither design can support any conclusion at all, since every survey of teenagers is inevitably biased.
- D) Team Okafor's design supports a valid conclusion because its sample is drawn at random from all teenagers.

## 17 LINEAR EQUATIONS IN TWO VARIABLES

MULTIPLE CHOICE

A robotic arm stacks glaze trays into one column. The table lists the column height  $h$ , in millimeters, for  $n$  trays. Which equation fits the data?

| $n$ | $h$ |
|-----|-----|
| 4   | 58  |
| 7   | 79  |
| 10  | 100 |

- A)  $h = 3n + 30$
- B)  $h = 7n$
- C)  $h = 7n + 30$
- D)  $h = 30n + 7$

## 18 EQUIVALENT EXPRESSIONS

MULTIPLE CHOICE

$(6t^3 + t^2 - 4t) + (t^3 - 5t^2) - (3t^3 - 2t^2 + 4t)$  The polynomial shown above can be rewritten as which of the following?

- A)  $4t^3 - 6t^2 - 8t$
- B)  $4t^3 - 2t^2 - 8t$
- C)  $4t^3 - 2t^2$
- D)  $10t^3 - 6t^2$



## 19 LINEAR FUNCTIONS

MULTIPLE CHOICE

An online platform projects its roster with  $M(t) = 1500 + 240t$ , where  $M(t)$  counts members  $t$  months past the launch date. Within this model, the number 1500 is best understood to mean which one of the following?

- A) The number of members the roster is projected to add during each month after launch.
- B) The number of members on the roster at the launch date, before any month has passed.
- C) The number of months the roster is projected to need in order to reach 1500 members.
- D) The number of members the roster is projected to hold one full year past the launch date.

## 20 AREA AND VOLUME

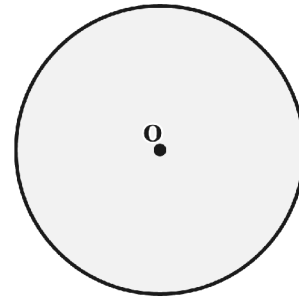
MULTIPLE CHOICE

Similar rectangles  $G$  and  $H$  have areas of 50 and 450 square centimeters, respectively. The perimeter of rectangle  $G$  is 30 centimeters. What is the perimeter, in centimeters, of rectangle  $H$ ?

- A) 10
- B) 90
- C) 270
- D) 430

## 21 CIRCLES

MULTIPLE CHOICE



The relation  $x^2 + 14x + y^2 - 4y = 11$  traces out a circle when it is graphed on the coordinate plane. Which ordered pair names the point at the very center of that circle?

- A)  $(-7, -2)$
- B)  $(-7, 2)$
- C)  $(7, 2)$
- D)  $(7, -2)$

## 22 EQUIVALENT EXPRESSIONS

MULTIPLE CHOICE

Express  $-x^2 + 10x - 7$  in completed-square form and select the right option.

- A)  $-(x - 5)^2 - 7$
- B)  $-(x + 5)^2 + 32$
- C)  $-(x - 5)^2 + 18$
- D)  $-(x - 10)^2 + 93$





QUICK REFERENCE

# Answer Key

Correct responses by section

## READING & WRITING · MODULE 1

|      |      |      |      |      |
|------|------|------|------|------|
| 1 A  | 2 D  | 3 C  | 4 C  | 5 B  |
| 6 B  | 7 B  | 8 B  | 9 C  | 10 A |
| 11 D | 12 C | 13 D | 14 A | 15 D |
| 16 B | 17 C | 18 D | 19 B | 20 A |
| 21 B | 22 A | 23 B | 24 D | 25 A |
| 26 C | 27 B |      |      |      |

## READING & WRITING · MODULE 2

|      |      |      |      |      |
|------|------|------|------|------|
| 1 B  | 2 A  | 3 D  | 4 A  | 5 C  |
| 6 A  | 7 C  | 8 B  | 9 D  | 10 B |
| 11 C | 12 D | 13 C | 14 B | 15 B |
| 16 D | 17 D | 18 A | 19 C | 20 D |
| 21 C | 22 C | 23 B | 24 B | 25 D |
| 26 A | 27 D |      |      |      |

## MATH · MODULE 1

|        |      |       |       |      |
|--------|------|-------|-------|------|
| 1 48.6 | 2 2  | 3 C   | 4 B   | 5 B  |
| 6 C    | 7 C  | 8 22  | 9 8   | 10 C |
| 11 C   | 12 B | 13 A  | 14 C  | 15 C |
| 16 B   | 17 B | 18 12 | 19 13 | 20 C |
| 21 C   | 22 A |       |       |      |

## MATH · MODULE 2

|      |        |       |       |                  |
|------|--------|-------|-------|------------------|
| 1 C  | 2 C    | 3 2.5 | 4 8   | 5 B              |
| 6 B  | 7 B    | 8 B   | 9 B   | 10 C             |
| 11 B | 12 2.5 | 13 18 | 14 15 | 15 $\frac{3}{4}$ |
| 16 D | 17 C   | 18 B  | 19 B  | 20 B             |
| 21 B | 22 C   |       |       |                  |

## 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<br>R&W / 54 | RAW SCORE<br>MATH / 44 | APPROXIMATE SCALED<br>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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## Test Ninjas SAT® Full Practice Exam

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