AL NOOR INTERNATIONAL SCHOOL

College Board
SAT STUDY and PRACTICE GUIDE
Redesigned SAT

"Your gateway in achieving your dreams."

Student's Name: _____

Grade 10___

Introduction to the SAT Exam

A. What is SAT

It’s one of two standardized college admissions tests. It's run by the CollegeBoard, a non-profit that also administers the PSAT and the AP (Advanced Placement) program.

The SAT was originally adapted from an Army IQ test and administered as a college admissions test for the first time in 1926. However, it didn't really catchon until 1933, when the president of Harvard started using the test to assess scholarship applicants because he believed it was an effective measurement of intellectual potential. This view of the SAT helped propel its popularity—by the1940s, it had become the standard test for all college applicants and was administered to over 300,000 people across the country.

The SAT's dominance of college admissions testing was challenged with the creation of the ACT in 1959. Though initially much less popular than the SAT,the ACT took hold in the Midwest and the mountain states and, in 2010, surpassed the SAT to become the most popular college admissions test.

In part because of the increased competition from the ACT, the SAT recently underwent some big changes in 2016. The basic purpose and form of the testare the same (it’s still a multiple-choice test used for college admissions decisions), but certain aspects of the structure and content have changed.
Schools must have approved of these changes because, in 2018, the SAT reclaimed its title and once again became the most popular college admissionstest.

B. Why SAT

The SAT (Scholastic Aptitude Test) is a standardized test meant to show schools how prepared you are for college by measuring key skills like readingcomprehension, computational ability, and clarity of expression. Because so many students take the test, it also provides schools with data about how youcompare to your peers nationwide.

You'll almost certainly need to take the SAT if you're applying to colleges or universities, since most require you to submit test scores with your application. Depending on where you want to apply, your SAT score can account for as much as 50% of the admission decision, so a strong standardizedtest score is vital.

C. SAT Scoring Protocol

When you take the SAT, you'll be given a total score between 400 and 1600. The SAT has two major sections: Evidence-Based Reading and Writing (combined from Reading + Writing and Language), and Math. You can earn ascaled score of between 200 and 800 points on each section. But where doesthe scoring scale come from?

You start with a raw score for each topic area. Your raw score is simply the number of questions you answered correctly; skipped or wrong questions do not add or subtract from your raw score. That number is then converted into ascaled score through a process called equating—the College Board is a bit cagey about how exactly this works, but it's based on years' worth of data rather than how people do on a specific test date.

The average SAT score is 1068, with some variation from year to year, but what counts as a good score for you will really depend on where you're lookingto apply. To get into a top-tier school you'll likely need to score about 1500 or higher, but for the local branch of the state university you might be just fine with a 1050.

D. How and where to apply SAT exam

SAT registration deadlines fall approximately five weeks before each test date.Register online on the College Board website. The College Board may require SAT registration by mail under special circumstances.
SAT tests dates can be found on the College Board website. You can also register to take the SAT test online with the College Board. Be sure to registerusing your name as it appears on your photo identification.

E. Cost of SAT Exam

The registration fee for the SAT exam for international students is $60. Remember that the additional services may vary with different locations and test centers. International students can only attempt the Digital SAT, and onlythe students in the US can access the pen and paper version of the SAT exam.

F. Ways to prepare for taking SAT Exam

If you've started thinking about college, career, or life after high school, you'veheard about tests like the SAT. Colleges—including those that are test optionaluse test scores to help them make admissions, financial aid, and course placement decisions. It makes sense to plan to do your best on the exam. Here are some tips to help you do that:

Best Way to Prepare
The best way to prepare for the SAT is to work hard both inside and outsidethe classroom. Take challenging courses, study hard, and read and write as much as you can.

Know what to expect.
Being familiar with the format of the SAT will help you feel more comfortableon test day. Go to our website to learn about each section. Talk to friends or siblings who've already taken the SAT. You'll feel more confident if you knowthe test format beforehand, and you can save valuable time during the exam.

Use our free, personalized practice tools.
By practicing with thousands of interactive problems, instant feedback, and video lessons, you can prepare for the test and keep track of your progress atsatpractice.org.

Take practice tests — for free.
You can find free practice exams on various websites as well as in study guides in the library, and bookstores. These practice exams can help you discover yourstrengths and weaknesses and learn to manage your time wisely during the test.

ANIS

Test begins on the next page.

ANIS

SAT Practice Test 1

Reading and Writing

33 QUESTIONS

DIRECTIONS

The questions in this section address a number of important reading and writing skills. Each question includes one or more passages, which may include a table or graph. Read each passage and question carefully, and then choose the best answer to the question based on the passage(s).

All questions in this section are multiple-choice with four answer choices. Each question has a single best answer.

1

Bioluminescent beetles called fireflies may seem to create flashes of light randomly, but each species of firefly actually has its own special series of repeated flashes and pauses. These unique_____allow fireflies of the same species to find each other.

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

A) quantities
B) decorations
C) patterns
D) agreements

2

As an architect in Los Angeles in the 1950s, Helen Liu Fong became known for avoiding _____ designs in her buildings. Instead of using standard shapes and colors, she typically explored innovative forms and daring hues.

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

A) creative
B) bold
C) traditional
D) understandable

3

The printing of Virginia Woolf's novels featured a creative_____between Woolf and her sister Vanessa Bell: a talented painter, Bell worked closely with Woolf to create original cover art for most of the novels.

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

A) rebellion
B) partnership
C) discovery
D) disagreement

4

A brief book review cannot fully convey the _____ of Olga Tokarczuk's novel *The Books of Jacob*, with its enormous cast of characters, its complicated, wandering plot, and its page numbers that count backward (beginning at 965 and ending at 1).

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

A) accuracy
B) inactivity
C) complexity
D) restraint

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CONTINUE

5

Sumerian civilization (which lasted from around 3300 to 2000 BCE)_____many concepts that persist into present-day civilizations: for example, the first description of the seven-day week appears in the Sumerian *Epic of Gilgamesh*.

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

A) transformed

B) introduced

C) inherited

D) overlooked

6

The following text is adapted from Louisa May Alcott's 1869 novel *An Old-Fashioned Girl*. Polly, a teenager, is visiting her friend Fanny.

> Fanny's friends did not interest Polly much; she was rather afraid of them [because] they seemed so much older and wiser than herself, even those younger in years. They talked about things of which she knew nothing and when Fanny tried to explain, she didn't find them interesting; indeed, some of them rather shocked and puzzled her.

Which choice best states the main purpose of the text?

A) To portray Polly's reaction to Fanny's friends

B) To identify the topics Polly talks about with Fanny's friends

C) To explain how Fanny met some of her friends

D) To illustrate how Fanny's friends feel about Polly

7

In 1801, a Blackfoot chief named Ac Ko Mok Ki drew a finely detailed map of the Upper Missouri region. <u>This work demonstrates a vast amount of topographic knowledge, as the map features specific names of mountains and rivers, as well as the first-known sketch of the drainage network of the Missouri River.</u> The map is especially notable because Ac Ko Mok Ki also included details about the numerous tribes that lived in the area.

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

A) It emphasizes Ac Ko Mok Ki's desire to represent other tribes on the map.

B) It explains how Ac Ko Mok Ki developed an interest in mapmaking.

C) It identifies some reasons why the map is impressive.

D) It details how the map was used for hunting and trading purposes.

8

<u>Yawn contagion occurs when one individual yawns in response to another's yawn.</u> Studies of this behavior in primates have focused on populations in captivity, but biologist Elisabetta Palagi and her colleagues have shown that it can occur in wild primate populations as well. In their study, which focused on a wild population of gelada monkeys (*Theropithecus gelada*) in Ethiopia, the researchers further reported that yawn contagion most commonly occurred in males and across different social groups instead of within a single social group.

Which choice best describes the function of the first sentence in the text as a whole?

A) It defines a phenomenon that is discussed in the text.

B) It introduces a problem that is examined in the text.

C) It makes a claim that is challenged in the text.

D) It presents a hypothesis that is evaluated in the text.

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CONTINUE

9

The following text is adapted from Paul Laurence Dunbar's 1902 novel *The Sport of the Gods*. Joe and some of his family members have recently moved to New York City.

> [Joe] was wild with enthusiasm and with a desire to be a part of all that the metropolis meant. In the evening he saw the young fellows passing by dressed in their spruce clothes, and he wondered with a sort of envy where they could be going. Back home there had been no place much worth going to, except church and one or two people's houses.

Which choice best states the main purpose of the text?

A) It illustrates a character's reaction to a new environment.

B) It explains why a character has traveled to a city.

C) It compares a character's thoughts about an event at two different times of day.

D) It presents a character feeling regret over leaving home.

10

The painter María Izquierdo played an important role in the development of twentieth-century Mexican art, but her work has never been well-known in the United States except among art historians. One reason for Izquierdo's relative obscurity is the enormous popularity of some of her peers. In particular, the painters Frida Kahlo and Diego Rivera have so captivated the interest of US audiences that Izquierdo and other Mexican artists from the period often get overlooked, despite the high quality of their work.

Which choice best states the main idea of the text?

A) Izquierdo's work is not as well-known in the United States as it should be because Kahlo and Rivera draw so much of the public's attention.

B) During Izquierdo's lifetime, her paintings were displayed in galleries in the United States much more frequently than paintings by Kahlo and Rivera were.

C) Izquierdo painted some of the same subjects that Kahlo and Rivera painted but used different techniques than they used.

D) Few of Izquierdo's works are in galleries today because she produced only a small number of paintings.

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CONTINUE

11

Moons of Dwarf Planets

Dwarf planet name	Number of moons	Name of moons
Haumea	2	Hi‘iaka, Namaka
Ceres	0	N/A
Makemake	1	MK 2
Eris	1	Dysnomia
Pluto	5	Charon, Nix, Kerberos, Styx, Hydra

Like Earth, some dwarf planets in the solar system have exactly one moon. Two examples of such dwarf planets are _____

Which choice most effectively uses data from the table to complete the statement?

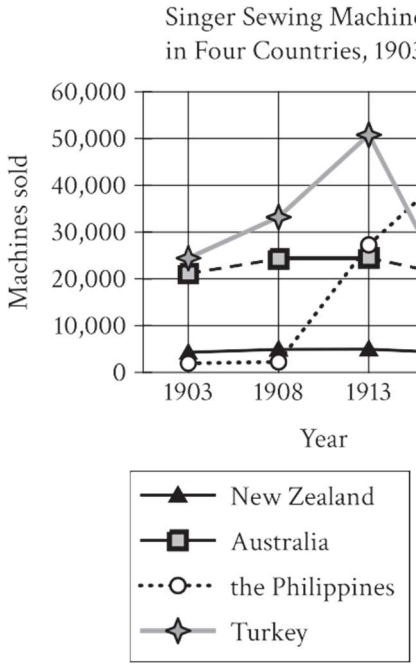
A) Eris and Makemake.

B) Haumea and Eris.

C) Pluto and Haumea.

D) Makemake and Ceres.

12



By the early 1900s, the Singer Corporation, a US sewing machine manufacturer founded in 1851, began to see rapidly increasing sales abroad, particularly in Russia, Germany, and the United Kingdom. These markets were responsible for the bulk of Singer’s overseas sales, but demand for the company’s machines in other countries also grew significantly in the early twentieth century. For instance, sales of their sewing machines in _____

Which choice most effectively uses data from the graph to complete the example?

A) the Philippines increased dramatically from 1908 to 1918.

B) New Zealand were largely consistent from 1903 to 1918.

C) Australia increased steadily from 1903 to 1918.

D) Turkey declined substantially from 1913 to 1918.

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CONTINUE

13

Results of Footprint Analysis for Two Sets of Theropod Tracks

Tracks	Estimated footprint length (centimeters)	Average stride length (meters)	Estimated mean speed (meters per second)
La Torre 6A	32.8	5.23	6.5–10.3
La Torre 6B	28.9	5.57	8.8–12.4

The table shows data from paleontologist Angélica Torices and colleagues' 2021 study of two sets of dinosaur tracks preserved in a fossilized lake bed in Spain. The tracks, referred to as La Torre 6A and La Torre 6B, were left by two individual theropods (dinosaurs that walked on two legs). The team's findings suggest that of the two theropods, the one that left the La Torre 6B tracks had a higher maximum mean speed, _____

Which choice most effectively uses data from the table to complete the claim?

A) a longer footprint, and a longer average stride.

B) a longer footprint, and a shorter average stride.

C) a shorter footprint, and a longer average stride.

D) a shorter footprint, and a shorter average stride.

14

In 1967 the US Congress created the Corporation for Public Broadcasting, which in turn created National Public Radio (NPR). NPR began producing and distributing high-quality news and cultural programming to affiliate stations across the United States in 1971. In a research paper, a student claims that the Corporation for Public Broadcasting and NPR were inspired by the British Broadcasting System (BBC), which had been established in the 1920s.

Which quotation from a work by a historian would be the most effective evidence for the student to include in support of this claim?

A) "Although the BBC had begun as a private corporation, politicians successfully argued to make it a public company because they believed a public broadcaster could help build national unity in the aftermath of World War I."

B) "For many decades, the BBC had no competition since it held Britain's only broadcasting license, whereas in the United States, the Corporation for Public Broadcasting launched NPR in a broadcasting market already filled with competitors."

C) "Congress's embrace of publicly funded broadcasting reflected a common belief among US politicians that the role of government was not only to ensure people's safety and liberty but also to enrich people's lives in other ways."

D) "The goal of the BBC was to support British democracy by promoting an informed citizenry, and US legislators believed that ensuring access to high-quality programming could do the same for democracy in the United States."

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CONTINUE

15

"Odalie" is an 1899 short story by Alice Dunbar-Nelson. In the story, a young woman named Odalie attends the annual Mardi Gras carnival in New Orleans, where she lives with her guardian Tante Louise. Dunbar-Nelson portrays Odalie as eager to escape the monotony of her everyday life: _____

Which quotation from "Odalie" most effectively illustrates the claim?

A) "Mardi Gras was a tiresome day, after all, she sighed, and Tante Louise agreed with her for once."

B) "In the old French house on Royal Street, with its quaint windows and Spanish courtyard green and cool, and made musical by the plashing of the fountain and the trill of caged birds, lived Odalie in convent-like seclusion."

C) "When one is shut up in a great French house with a grim sleepy tante and no companions of one's own age, life becomes a dull thing, and one is ready for any new sensation."

D) "It was Mardi Gras day at last, and early through her window Odalie could hear the jingle of folly bells on the [participants'] costumes, the tinkle of music, and the echoing strains of songs."

16

Five of the Responses to Survey about Actions to Conserve Energy

Action	Action category	Percentage of respondents selecting action (%)
Use efficient cars/hybrids	efficiency	2.8
Change thermostat setting	curtailment	6.3
Use bike or public transportation instead of car	curtailment	12.9
Use efficient light bulbs	efficiency	3.6
Turn off lights	curtailment	19.6

In a survey of public perceptions of energy use, researcher Shahzeen Attari and her team asked respondents to name the most effective action ordinary people can take to conserve energy. The team categorized each action as either an efficiency or a curtailment and found that respondents tended to name curtailments more often than they did efficiencies. For example, 19.6% of respondents stated that the most effective way to conserve energy is to turn off the lights, while only _____

Which choice most effectively uses data from the table to complete the text?

A) 6.3% of respondents said it was most effective to use efficient cars or hybrids.

B) 2.8% of respondents said it was most effective to change the thermostat setting.

C) 12.9% of respondents said it was most effective to use a bike or public transportation.

D) 3.6% of respondents said it was most effective to use efficient light bulbs.

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CONTINUE

17

An archaeological team led by Piotr Bieliński and Sultan al-Bakri found remnants of a 4,000-year-old Bronze Age board game at a site in Oman. Little is left of the game except a stone board, which is carved with a grid and has places to hold game pieces. Some scholars claim that the game was largely played by traders.

Which finding, if true, would most directly support the scholars' claim?

A) Other examples of the game dating to the same period have been found in the remains of several homes in the region, including in one home that may have belonged to a trader.

B) Similar games have been found in other sites dating to the same period that were connected to the site in Oman via trade routes.

C) The other known examples of the game dating to the same period have been found along routes that seem to have been used primarily by traders at the time.

D) Remnants of other goods have been found at the site in Oman that probably also reached the location through trade.

18

Swahili Speakers in Three African Countries

Country	Approximate number of speakers (in millions)	Estimated % of population
Democratic Republic of the Congo	22	25
Kenya	55	100
Tanzania	61	100

Swahili is estimated to be the first language of up to 15 million people worldwide. It's also an officially recognized language in Tanzania, Kenya, and the Democratic Republic of the Congo, which means these countries use Swahili in government documents and proceedings. <u>But even in countries where almost everyone speaks Swahili, for many it isn't their first language but is instead their second, third, or even fourth language.</u>

Which choice most effectively uses data from the table to support the underlined claim?

A) Tanzania has approximately 61 million Swahili speakers, which is much more than the estimated total number of people worldwide for whom Swahili is their first language.

B) Tanzania is estimated to have at most 15 million Swahili speakers, while the country's total population is approximately 61 million people.

C) Approximately 100 percent of the people who speak Swahili as their first language live in Kenya, which has a total population of approximately 55 million people.

D) Approximately 100 percent of Kenya's population speaks Swahili, while only about 25 percent of the Democratic Republic of the Congo's population speaks Swahili.

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CONTINUE

19

Obsidian is a kind of volcanic glass formed when lava cools so quickly that the atoms inside it cannot arrange themselves in a crystalline structure. You _____ more about obsidian's structure, which is classified as amorphous, in a later chapter.

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

A) had learned
B) had been learning
C) will learn
D) have learned

20

With its towering, six-spired exterior of granitelike quartz monzonite, the Salt Lake Temple is one of the most instantly recognizable structures in the state of Utah. However, many people do not know that _____ built over the course of forty years, with construction beginning in 1853 and ending in 1893.

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

A) it was
B) one was
C) they were
D) both were

21

Human-made (synthetic) fibers used in clothes and many other consumer products are more durable than most natural plant_____the manufacture of synthetic fibers requires toxic chemical solvents that can pollute air and water.

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

A) fibers,
B) fibers but
C) fibers
D) fibers, but

22

The fine, powdery substance that covers the Moon's surface is called regolith. Because regolith is both readily available and high in oxygen _____ scientists have wondered whether it could be used as a potential source of oxygen for future lunar settlements.

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

A) content and
B) content,
C) content
D) content, and

23

Each year in the fall, when the weather starts to cool in the northern hemisphere, millions of North American monarch butterflies journey south. Searching for food and warmer habitats, they _____ thousands of miles—from as far north as Canada all the way down to Mexico—on this annual migration.

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

A) flew
B) were flying
C) had flown
D) fly

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CONTINUE

24

Objects ranging from the Kikkoman soy sauce bottle to the Yamaha VMAX motorcycle to the Komachi bullet train_____designed by twentieth-century industrial designer Kenji Ekuan.

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

A) was

B) is

C) has been

D) were

25

"Praise Song for the Day," Elizabeth Alexander's 2009 inaugural poem, asserts that "We cross dirt roads and highways…to see what's on the other side." Alexander's use of "we"_____Americans' collective efforts and shared desire to seek new opportunity.

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

A) evokes

B) are evoking

C) have evoked

D) evoke

26

Author Madeline L'Engle,_____to create a suspenseful tone that draws the reader in, begins her novel *A Wrinkle in Time* with descriptions of "wraithlike shadows" and "the frenzied lashing of the wind."

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

A) looked

B) looks

C) is looking

D) looking

27

In 1955, Indian Bengali filmmaker Satyajit Ray released his first movie, *Pather*_____quiet black-and-white drama about a family in rural India, Ray's film was quite different from the loud, colorful action-romance movies that were popular at the time.

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

A) *Panchali* a

B) *Panchali*, which was a

C) *Panchali*, a

D) *Panchali*. A

28

A recent study tracked the number of bee species present in twenty-seven New York apple orchards over a ten-year period._____found that when wild growth near an orchard was cleared, the number of different bee species visiting the orchard decreased.

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

A) Entomologist Heather Grab:

B) Entomologist, Heather Grab,

C) Entomologist Heather Grab

D) Entomologist Heather Grab,

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CONTINUE

29

Tyrian purple was a highly prized dye among the Phoenicians (an ancient civilization located in present-day Lebanon). The Phoenicians were famous for using this natural dye to color their clothes a distinctive purple._____the name "Phoenicia" itself, some historians claim, may have originally meant "land of purple."

Which choice completes the text with the most logical transition?

A) In fact,

B) Regardless,

C) Lastly,

D) On the contrary,

30

In Gothic architecture, flying buttresses are large arches that help support a building's exterior walls. Before the Gothic era, cathedrals' heavy ceilings had to be supported by thick, short walls, but the invention of flying buttresses eliminated this need. _____ Gothic cathedrals could be built with thinner, higher walls.

Which choice completes the text with the most logical transition?

A) Similarly,

B) For instance,

C) Nevertheless,

D) As a result,

31

In 1873, Spanish scientist Santiago Ramón y Cajal observed that brain fibers have distinct boundaries with clear end points, a finding that went against earlier assumptions about the brain. _____ scientists had assumed that the brain was a continuous web of fused fibers, not a vast network of distinct, individual cells.

Which choice completes the text with the most logical transition?

A) However,

B) Previously,

C) As a result,

D) Likewise,

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CONTINUE

32

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

- The Sasanian Empire lasted about 400 years (AD 224 to AD 651).
- The Sasanians controlled an area spanning 1.4 million square miles.
- This area included present-day Iran and Iraq.
- The empire's capital was the ancient city of Ctesiphon.
- Ctesiphon was located near present-day Baghdad, Iraq.

The student wants to specify the location of Ctesiphon. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) The Sasanian Empire began in AD 224 and ended in AD 651.

B) The capital of the Sasanian Empire, which spanned 1.4 million square miles, was Ctesiphon.

C) The Sasanians controlled an area of 1.4 million square miles, including present-day Iran and Iraq.

D) Ctesiphon, the capital of the Sasanian Empire, was located near present-day Baghdad, Iraq.

33

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

- In the art world, the term biennial traditionally refers to an art exhibition that takes place every two years in a single location.
- Such biennials are held in New York, Berlin, and Venice.
- In 2006, artists Ed Gomez and Luis Hernandez founded the unconventional MexiCali Biennial.
- The MexiCali Biennial hosts exhibitions in different venues on both sides of the US-Mexico border.
- The MexiCali Biennial has taken place on an uneven schedule, with exhibitions in 2006, 2009–10, 2013, and 2018–20.

The student wants to emphasize a difference between the MexiCali Biennial and traditional biennials. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) In 2006, artists Ed Gomez and Luis Hernandez founded the MexiCali Biennial, which has taken place in 2006, 2009–10, 2013, and 2018–20.

B) Unlike traditional biennials, the MexiCali Biennial hosts exhibitions in different venues on an uneven schedule.

C) The term biennial traditionally refers to an art exhibition that takes place every two years in a single location, not to exhibitions hosted at a variety of times and venues.

D) Biennial exhibitions have been held in New York, Berlin, and Venice but also on both sides of the US-Mexico border.

STOP

If you finish before time is called, you may check your work on this module only. Do not turn to any other module in the test.

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SAT Practice 2

Reading and Writing

33 QUESTIONS

DIRECTIONS

The questions in this section address a number of important reading and writing skills. Each question includes one or more passages, which may include a table or graph. Read each passage and question carefully, and then choose the best answer to the question based on the passage(s).

All questions in this section are multiple-choice with four answer choices. Each question has a single best answer.

1

The following text is from Nella Larsen's 1928 novel *Quicksand*.

> The trees in their spring beauty sent through her restive mind a sharp thrill of pleasure. Seductive, charming, and beckoning as cities were, they had not this easy unhuman loveliness.

As used in the text, what does the word "beckoning" most nearly mean?

A) Demanding

B) Signaling

C) Inviting

D) Shifting

2

Physicist Joseph Weber performed_____work in gravitational wave research in the 1960s and 1970s, conducting key experiments that scientists later used as the basis for their own investigations that led to the first verified detection of a gravitational wave in 2015.

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

A) foundational

B) supplementary

C) repetitive

D) ineffective

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CONTINUE

3

Sueño de Familia is an exhibition of drawings, paintings, and ceramics that explores the artistic heritage of US-based artist Yolanda González. The exhibition_____five generations, featuring works by González's great-grandfather, grandmother, mother, and niece as well as González herself.

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

A) borrows

B) spans

C) judges

D) neglects

4

The following text is from Claude McKay's 1922 poem "Morning Joy." The speaker is looking out a window and observing a wold, or large area of land.

> At night the wide and level stretch of wold,
> Which at high noon had basked in quiet gold,
> Far as the eye could see was ghostly white;
> Dark was the night save for the snow's weird light.
>
> I drew the shades far down, crept into bed;
> Hearing the cold wind moaning overhead
> Through the sad pines, my soul, catching its pain,
> Went sorrowing with it across the plain.

As used in the text, what does the word "drew" most nearly mean?

A) Pulled

B) Drained

C) Inspired

D) Sketched

5

Some people have speculated that two helmets with attached horns discovered in Denmark in 1942 belonged to Vikings, but scholars have long been skeptical. Archaeologist Helle Vandkilde and colleagues recently provided radiocarbon dates for the helmets, and their findings_____scholars' skepticism: the helmets date to the Nordic Bronze Age, centuries before the Vikings existed.

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

A) anticipate

B) inspect

C) reveal

D) justify

6

Streams and rivers carry soil and rocks from one location to another. But there is another way for these geological materials to move. Scientists call this process "aeolian transport." In aeolian transport, winds move small particles of soil or rock over potentially great distances. Geologist Melisa Diaz and her team studied dust in Antarctica to find out if it was moved by aeolian transport. They discovered that the dust matched geological material in Australia. Aeolian transport had carried it from one continent to another, across thousands of miles of open ocean.

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

A) It presents Melisa Diaz's remarks about difficulties that her team encountered.

B) It introduces a scientific term that is used in the discussion that follows.

C) It emphasizes the surprising nature of the findings that are presented.

D) It explains the difference between two kinds of geological material.

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CONTINUE

7

San Francisco is known for the colorful murals painted on many of its buildings. The densest collection of murals is found on Balmy Alley in the Mission District neighborhood. In the 1970s, Latina artists painted vivid scenes of community life on walls along this block. As the original murals have faded, later generations of artists have painted new ones over them. As a result, Balmy Alley has become a living showcase of San Francisco's artistic spirit, with its murals reflecting changes in the cultural life of the city.

Which choice best states the main purpose of the text?

A) To compare the Balmy Alley murals to other murals in San Francisco

B) To offer an overview of the history and importance of the Balmy Alley murals

C) To urge people to protect the murals of San Francisco from decay

D) To describe the rise of mural painting in San Francisco beginning in the 1970s

8

Industrial activity is often assumed to be a threat to wildlife, but that isn't always so. Consider the silver-studded blue butterfly (*Plebejus argus*): as forest growth has reduced grasslands in northern Germany, many of these butterflies have left meadow habitats and are now thriving in active limestone quarries. In a survey of multiple active quarries and patches of maintained grassland, an ecologist found silver-studded blue butterflies in 100% of the quarries but only 57% of the grassland patches. Moreover, butterfly populations in the quarries were four times larger than those in the meadows.

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

A) It challenges a common assumption about the species under investigation in the research referred to in the text.

B) It introduces discussion of a specific example that supports the general claim made in the previous sentence.

C) It suggests that a certain species should be included in additional studies like the one mentioned later in the text.

D) It provides a definition for an unfamiliar term that is central to the main argument in the text.

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CONTINUE

9

Text 1
Dominique Potvin and colleagues captured five Australian magpies (*Gymnorhina tibicen*) to test a new design for attaching tracking devices to birds. As the researchers fitted each magpie with a tracker attached by a small harness, they noticed some magpies without trackers pecking at another magpie's tracker until it broke off. The researchers suggest that this behavior could be evidence of magpies attempting to help another magpie without benefiting themselves.

Text 2
It can be tempting to think that animals are deliberately providing help when we see them removing trackers and other equipment from one another, especially when a species is known to exhibit other cooperative behaviors. At the same time, it can be difficult to exclude the possibility that individuals are simply interested in the equipment because of its novelty, curiously pawing or pecking at it until it detaches.

Based on the texts, how would the author of Text 2 most likely respond to the researchers' perspective in Text 1 on the behavior of the magpies without trackers?

A) That behavior might have been due to the novelty of the magpies' captive setting rather than to the novelty of the tracker.

B) That behavior likely indicates that the magpies were deliberately attempting to benefit themselves by obtaining the tracker.

C) That behavior may not be evidence of selflessness in *Gymnorhina tibicen* because not all the captured magpies demonstrated it.

D) That behavior might be adequately explained without suggesting that the magpies were attempting to assist the other magpie.

10

Philadelphia's Black Pearl Chamber Orchestra, founded by Jeri Lynne Johnson, performs classical music, from well-known compositions by Beethoven to contemporary works by Jessie Montgomery. For the orchestra's iConduct! program, Johnson invites community members to learn some basic elements of conducting and then experience conducting the Black Pearl orchestra themselves.

Which choice best states the main idea of the text?

A) The Black Pearl orchestra performs music from all over the world but mostly performs music composed by Philadelphians.

B) Johnson founded the Black Pearl orchestra to perform classical music by contemporary artist Jessie Montgomery.

C) The Black Pearl orchestra gives community members the chance to both listen to and participate in classical music performance.

D) Johnson has community members conduct an orchestra to demonstrate how difficult the task is.

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CONTINUE

11

The recovery of a 1,000-year-old Chinese shipwreck in the Java Sea near present-day Indonesia has yielded a treasure trove of artifacts, including thousands of small ceramic bowls. Using a portable X-ray fluorescence analyzer tool, Lisa Niziolek and her team were able to detect the chemical composition of these bowls without damaging them. By comparing the chemical signatures of the bowls with those of the materials still at old Chinese kiln sites, Niziolek and her team can pinpoint which Chinese kilns likely produced the ceramic bowls.

Which choice best states the main idea of the text?

A) Because of a new technology, researchers can locate and recover more shipwrecks than they could in the past.

B) Researchers have been able to identify the location of a number of Chinese kilns in operation 1,000 years ago.

C) With the help of a special tool, researchers have determined the likely origin of bowls recovered from a shipwreck.

D) Before the invention of portable X-ray fluorescence, researchers needed to take a small piece out of an artifact to analyze its components.

12

The following text is adapted from Guy de Maupassant's nineteenth-century short story "The Trip of Le Horla" (translated by Albert M. C. McMaster, A. E. Henderson, Mme. Quesada, et al.). The narrator is part of a group traveling in a hot-air balloon at night.

> The earth no longer seems to exist, it is buried in milky vapors that resemble a sea. We are now alone in space with the moon, which looks like another balloon travelling opposite us; and our balloon, which shines in the air, appears like another, larger moon, a world wandering in the sky amid the stars, through infinity. We no longer speak, think nor live; we float along through space in delicious inertia. The air which is bearing us up has made of us all beings which resemble itself, silent, joyous, irresponsible beings, peculiarly alert, although motionless.

Which choice best states the main idea of the text?

A) The narrator feels a growing sense of isolation even though his companions are nearby during the balloon ride.

B) The narrator and his companions are completely absorbed in the change in perspective they gain while riding in the balloon.

C) The narrator and his companions are troubled by the disorienting effects of the altitude while riding in the balloon.

D) The narrator is pleasantly surprised by his companions' unrestrained enthusiasm about the sensation of riding in the balloon.

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CONTINUE

13

Icebergs generally appear to be mostly white or blue, depending on how the ice reflects sunlight. Ice with air bubbles trapped in it looks white because much of the light reflects off the bubbles. Ice without air bubbles usually looks blue because the light travels deep into the ice and only a little of it is reflected. However, some icebergs in the sea around Antarctica appear to be green. One team of scientists hypothesized that this phenomenon is the result of yellow-tinted dissolved organic carbon in Antarctic waters mixing with blue ice to produce the color green.

Which finding, if true, would most directly weaken the team's hypothesis?

A) White ice doesn't change color when mixed with dissolved organic carbon due to the air bubbles in the ice.

B) Dissolved organic carbon has a stronger yellow color in Antarctic waters than it does in other places.

C) Blue icebergs and green icebergs are rarely found near each other.

D) Blue icebergs and green icebergs contain similarly small traces of dissolved organic carbon.

14

To create the poems in her 2017 collection *One Last Word*, poet Nikki Grimes used a writing method called the golden shovel. This method often involves choosing a line from an existing poem and then using each word from that line as the last word of each line in a new poem. Grimes wanted the poems in *One Last Word* to honor important Black poets of the past, so she chose lines by poets such as Langston Hughes and Georgia Douglas Johnson. Writing in this way can be challenging and might seem as though it would produce awkward poems. However, reviewers praised *One Last Word* as a beautiful and powerful tribute to the poets who inspired it. This reaction suggests that _____

Which choice most logically completes the text?

A) most reviewers didn't understand Grimes's goal for *One Last Word*.

B) Grimes successfully used the golden shovel method to achieve her goal for *One Last Word*.

C) Langston Hughes and Georgia Douglas Johnson are two of Grimes's favorite poets.

D) Grimes inspired many other writers to create poems using the golden shovel method.

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CONTINUE

15

The Indus River valley civilization flourished in South Asia from 3300 BCE to 1300 BCE. Many examples of the civilization's writing system exist, but researchers haven't yet deciphered it or identified which ancient language it represents. Nevertheless, archaeologists have found historical artifacts, such as clay figures and jewelry, that provide information about the civilization's customs and how its communities were organized. The archaeologists' findings therefore suggest that _____

Which choice most logically completes the text?

A) investigating an ancient civilization is easier without knowledge of the civilization's language.

B) knowing an ancient civilization's language isn't necessary in order to learn details about the civilization.

C) archaeological research should focus on finding additional artifacts rather than deciphering ancient languages.

D) examining the civilization's historical artifacts has resolved the debate about this civilization's language.

16

Ana Castillo's 1986 novel *The Mixquiahuala Letters* is a story told entirely through expressive letters from the narrator to her friend—letters that Castillo suggests could be read in several different orders. As they began reading it in class, some students remarked that they found the novel's letter format daunting and its treatment of gender relations old-fashioned. The professor, however, pointed out that the novel is written in modern-sounding language and addresses issues that still matter today, suggesting that *The Mixquiahuala Letters* _____

Which choice most logically completes the text?

A) has more to say about gender relations than other novels from the same period.

B) is more relevant to contemporary audiences than it may seem at first.

C) is easier to read than many contemporary novels that focus on friendship.

D) is best understood after multiple readings in different orders.

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CONTINUE

17

By running computer simulations of the development of our solar system, André Izidoro, Rajdeep Dasgupta, and colleagues concluded that the Sun may have been surrounded by three giant dust rings before the planets started to form. The researchers suggest that the materials in the innermost ring became the four planets closest to the Sun, the materials in the middle ring produced the rest of the planets, and the materials in the outermost ring created the asteroids and other small bodies in the region beyond Neptune. In one simulation, the researchers delayed the initial formation of the middle ring, causing oversized super-Earths to begin developing from the innermost ring. The researchers therefore hypothesize that _____

Which choice most logically completes the text?

A) the middle ring formed earlier in the solar system's development than the initial simulations suggested.

B) the timing of the initial formation of the middle ring played an important role in determining the eventual size of Earth.

C) if the formation of the outermost ring had occurred earlier in a simulation, all the planets would have become super-Earths.

D) the innermost ring actually formed into all the planets in our solar system, not just the four closest to the Sun.

18

Archaeologists and historians used to believe that the Maya civilization during its Classic period (roughly 250–900) lacked agricultural marketplaces. One reason for this belief was that these scholars misunderstood the ecology of the regions the Maya inhabited. Marketplaces typically emerge because different individuals or groups want to trade resources they control for resources they don't control. Scholars seriously underestimated the ecological diversity of the Maya landscape and thus assumed that _____

Which choice most logically completes the text?

A) marketplaces likely would not have attracted many traders from outside the regions controlled by the Maya.

B) farming practices would have been largely the same throughout Maya lands even if the crops people produced varied significantly.

C) marketplaces would not have enabled Maya people to acquire many products different from those they already produced.

D) farmers would trade agricultural products only if they had already produced enough to meet their own needs.

19

In 1976, the Inuit rock group Sikumiut recorded the album *People of the Ice*. Though only their first record, it shows a band already skilled at the difficult task of making music that sounds easy and fun. On songs like "Utirumavunga," Lucassie Koperqualuk's guitar riffs effortlessly_____Charlie Adams's delightfully catchy vocal melodies.

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

A) blend, with

B) blend. With

C) blend; with

D) blend with

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CONTINUE

20

If you try on one of artist Nick Cave's signature Soundsuits, you can expect to swish, rustle, or clang every time you move. Cave makes his suits out of found objects, everything from ceramic birds to broken record players. He carefully considers the sound an object makes before using_____in a suit.

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

A) this

B) that

C) these

D) it

21

The alga species *Chlorella vulgaris* is very efficient at making oxygen. For this reason, scientists are currently exploring ways to use this species in space. *C. vulgaris* might be used, for example, to build future biological air exchange systems that _____ oxygen for astronauts.

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

A) are producing

B) produced

C) produce

D) have produced

22

Farouk El-Baz, a geologist and space scientist, _____ part of the team that selected the lunar landing sites for the Apollo program during the 1960s and 1970s.

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

A) are

B) was

C) have been

D) were

23

A pioneer in the field of taphonomy (the study of how organic remains become fossils),_____may be just as prevalent in the fossil record as those of thick-shelled organisms.

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

A) fossils of thin-shelled organisms, Anna Behrensmeyer demonstrated in a 2005 analysis,

B) Anna Behrensmeyer demonstrated in a 2005 analysis that fossils of thin-shelled organisms

C) it was demonstrated in a 2005 analysis by Anna Behrensmeyer that fossils of thin-shelled organisms

D) a 2005 analysis—by Anna Behrensmeyer—demonstrated that fossils of thin-shelled organisms

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CONTINUE

24

In 2018, the innovative works of Congolese sculptor and architect Bodys Isek_____were featured in *City Dreams*, a solo exhibition at New York's Museum of Modern Art.

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

A) Kingelez;

B) Kingelez,

C) Kingelez

D) Kingelez:

25

The poem *Beowulf* begins with the word "hwæt," which is an Old English_____as "hark!" or "listen!" in some versions, the word was playfully rendered as "bro!" by Maria Dahvana Headley in her 2020 translation of the poem.

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

A) exclamation, translated

B) exclamation and translated

C) exclamation translated

D) exclamation. Translated

26

In June, female loggerhead sea turtles will swim back to the sandy beaches where they were born to lay eggs of their own. First, the turtle will dig her nest in the sand._____she will lay up to 100 eggs in the nest. Finally, she will cover it all with sand, before returning to the ocean.

Which choice completes the text with the most logical transition?

A) By contrast,

B) Similarly,

C) Next,

D) For example,

27

As biologist Terrie Williams has documented, deep dives present a challenge for seals and other marine mammals. A seal must exert enough energy to propel itself hundreds of meters downward, while keeping its heart rate low enough that it doesn't run out of oxygen while underwater._____a seal moves its flippers as little as possible on a deep dive, gliding to conserve energy.

Which choice completes the text with the most logical transition?

A) In the first place,

B) On the other hand,

C) For this reason,

D) In comparison,

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CONTINUE

28

As a young historian in the 1950s, Alixa Naff began interviewing fellow Arab American immigrants about their experiences straddling two cultures. Over the next few decades, Naff conducted more than 450 such interviews, also known as oral histories. _____ she collected photographs and other artifacts that represented her subjects' experiences.

Which choice completes the text with the most logical transition?

A) In other words,

B) On the contrary,

C) In addition,

D) Today,

29

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

- The tundra is a type of environment characterized by especially harsh winter conditions.
- Winter temperatures in the tundra average a frigid –30 degrees Fahrenheit.
- Animals that have adapted to these conditions can survive tundra winters.
- During the tundra's short growing season, average temperatures can reach a relatively mild 54 degrees Fahrenheit.
- Around 1,700 different kinds of plants are able to grow in the tundra.

The student wants to emphasize how harsh the conditions can be in the tundra. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) Winters in the tundra are especially harsh, with temperatures averaging a frigid –30 degrees Fahrenheit.

B) Animals that have adapted to harsh winter conditions can survive tundra winters.

C) There are around 1,700 different kinds of plants that can live in the tundra, where average temperatures can reach a mild 54 degrees Fahrenheit.

D) Along with animals that have adapted to the tundra's conditions, around 1,700 different kinds of plants can live in the tundra.

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CONTINUE

30

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

- Minnesota defines a lake as an inland body of water of at least 10 acres.
- Wisconsin's definition of a lake doesn't take size into account.
- By its own definition, Wisconsin has over 15,000 lakes, many smaller than 10 acres.
- By Minnesota's definition, Wisconsin has only about 6,000 lakes.

The student wants to contrast Minnesota's definition of a lake with Wisconsin's. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) Wisconsin, which doesn't take size into account in defining a lake, claims that it has over 15,000 lakes.

B) Because its definition of a lake is different from Minnesota's, it is unclear how many lakes Wisconsin really has.

C) According to Minnesota's definition of a lake—an inland body of water of at least 10 acres—Wisconsin has about 6,000 lakes.

D) Minnesota's definition of a lake—an inland body of water of at least 10 acres—is more restrictive than Wisconsin's, which doesn't take size into account.

31

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

- Just like states have state flags, some cities have city flags.
- Over one hundred US cities have redesigned their flags since 2015.
- The city of Pocatello, Idaho, redesigned its flag after it was named the most poorly designed flag in North America.
- Pocatello's new flag better represents the city's mountainous geography and civic priorities.
- Residents consider the new flag to be a meaningful symbol of civic pride.

The student wants to make and support a generalization about the effect of redesigning a city flag. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) Over one hundred US cities have redesigned their flags, including Pocatello, whose flag had been named the most poorly designed flag in North America.

B) Pocatello is just one of over one hundred US cities that have redesigned their flags.

C) After it was named the most poorly designed flag in North America, the flag of Pocatello was redesigned to better represent the city's geography and civic priorities.

D) Redesigning a poorly designed city flag can create a meaningful symbol of civic pride, as was the case when Pocatello redesigned its original flag to better represent its geography and civic priorities.

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CONTINUE

32

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

- Allan Houser was a Chiricahua Warm Springs Apache sculptor, illustrator, and painter.
- Many of his sculptures featured Native American figures.
- He depicted this subject matter using abstract, modernist forms, developing a distinctive style that influenced many other artists.
- His well-known sculpture *Sacred Rain Arrow* was pictured on the State of Oklahoma license plate.

The student wants to describe the distinctive style of Houser's sculptures. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) A sculptor, illustrator, and painter, Houser developed a distinctive style for portraying Native American figures.

B) Houser's sculptures employ abstract, modernist forms to depict Native American figures.

C) Many other artists have been influenced by the style of Houser's sculptures.

D) The sculpture *Sacred Rain Arrow* is a well-known example of Houser's style.

33

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

- Architect Julian Abele studied Gregorian and neo-Gothic architecture in Europe.
- Abele worked for an architecture firm that was hired in 1924 to design buildings for Duke University's new campus.
- Most of the buildings on Duke's campus were designed in the Gregorian or neo-Gothic architectural styles.
- At the time, Abele was not formally credited with designing the buildings.
- Based on the buildings' architectural styles, historians believe Abele designed most of the campus buildings.

The student wants to specify why historians believe Abele designed most of Duke's campus buildings. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) Given that most of the buildings on Duke's campus feature architectural styles that Abele had studied in Europe, historians believe Abele is the one who designed them.

B) Though Abele wasn't formally credited at the time, historians believe he designed most of the buildings on Duke's campus.

C) Most of Duke's campus buildings, which were designed by a firm Abele worked for, were designed in the Gregorian and neo-Gothic architectural styles.

D) Abele, an architect who studied Gregorian and neo-Gothic architecture in Europe, is believed to have designed most of the buildings on Duke's campus.

STOP

If you finish before time is called, you may check your work on this module only. Do not turn to any other module in the test.

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No Test Material On This Page

Test begins on the next page.

SAT Practice 3

Reading and Writing

33 QUESTIONS

DIRECTIONS

The questions in this section address a number of important reading and writing skills. Each question includes one or more passages, which may include a table or graph. Read each passage and question carefully, and then choose the best answer to the question based on the passage(s).

All questions in this section are multiple-choice with four answer choices. Each question has a single best answer.

1

The following text is adapted from Amy Lowell's 1912 poem "Summer."

> It is summer, glorious, deep-toned summer,
> The very crown of nature's changing year
> When all her surging life is at its full.
> To me alone it is a time of pause,
> A void and silent space between two worlds,
> When inspiration lags, and feeling sleeps,
> Gathering strength for efforts yet to come.

As used in the text, what does the phrase "a void" most nearly mean?

A) A useless

B) An empty

C) A forgotten

D) An incomplete

2

In the 1960s, Sam Gilliam, a Black painter from the southern United States, became the first artist to drape painted canvases into flowing shapes. He later explored a different style,_____quilt-like paintings inspired by the patchwork quilting tradition of Black communities in the South.

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

A) predicting

B) refusing

C) hiding

D) creating

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CONTINUE

3

Studying how workload affects productivity, Maryam Kouchaki and colleagues found that people who chose to do relatively easy tasks first were less _____ compared to those who did hard tasks first. Finishing easy tasks gave participants a sense of accomplishment, but those who tackled hard tasks first actually became more skilled and productive workers over time.

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

A) secretive

B) efficient

C) outgoing

D) unsympathetic

4

The following text is from Bram Stoker's 1897 novel *Dracula*. The narrator is being driven in a carriage through a remote region at night.

> The baying of the wolves sounded nearer and nearer, as though they were closing round on us from every side. I grew dreadfully afraid, and the horses shared my fear. The driver, however, was not in the least disturbed; he kept turning his head to left and right, but I could not see anything through the darkness.

As used in the text, what does the word "disturbed" most nearly mean?

A) Disorganized

B) Alarmed

C) Offended

D) Interrupted

5

The following text is adapted from Sadakichi Hartmann's 1894 short story "Magnolia Blossoms." The narrator is standing on the deck of a boat.

> What a night it was! My soul had left its body to lose itself in the wild unrestrained beauty around me—from where it came—and only left a trembling suggestion of its existence within me. The other passengers moved around me like shadows, and again and again my eyes drank in all the glory and wealth of that night.

As used in the text, what does the word "suggestion" most nearly mean?

A) Trace

B) Opinion

C) Dispute

D) Command

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CONTINUE

6

The following text is from Lucy Maud Montgomery's 1908 novel *Anne of Green Gables*. Anne, an eleven-year-old girl, has come to live on a farm with a woman named Marilla in Nova Scotia, Canada.

> Anne reveled in the world of color about her.
>
> "Oh, Marilla," she exclaimed one Saturday morning, coming dancing in with her arms full of gorgeous boughs, "I'm so glad I live in a world where there are Octobers. It would be terrible if we just skipped from September to November, wouldn't it? Look at these maple branches. Don't they give you a thrill—several thrills? I'm going to decorate my room with them."
>
> "Messy things," said Marilla, whose aesthetic sense was not noticeably developed. "You clutter up your room entirely too much with out-of-doors stuff, Anne. Bedrooms were made to sleep in."

Which choice best states the main purpose of the text?

A) To demonstrate that Anne has a newly developed appreciation of nature

B) To describe an argument that Anne and Marilla often have

C) To emphasize Marilla's disapproval of how Anne has decorated her room

D) To show that Anne and Marilla have very different personalities

7

Early in the Great Migration of 1910–1970, which involved the mass migration of Black people from the southern to the northern United States, political activist and *Chicago Defender* writer Fannie Barrier Williams was instrumental in helping other Black women establish themselves in the North. Many women hoped for better employment opportunities in the North because, in the South, they faced much competition for domestic employment and men tended to get agricultural work. To aid with this transition, Barrier Williams helped secure job placement in the North for many women before they even began their journey.

Which choice best states the main purpose of the text?

A) To introduce and illustrate Barrier Williams's integral role in supporting other Black women as their circumstances changed during part of the Great Migration

B) To establish that Barrier Williams used her professional connections to arrange employment for other Black women, including jobs with the *Chicago Defender*

C) To demonstrate that the factors that motivated the start of the Great Migration were different for Black women than they were for Black men

D) To provide an overview of the employment challenges faced by Black women in the agricultural and domestic spheres in the southern United States

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CONTINUE

8

"How lifelike are they?" Many computer animators prioritize this question as they strive to create ever more realistic environments and lighting. Generally, while characters in computer-animated films appear highly exaggerated, environments and lighting are carefully engineered to mimic reality. But some animators, such as Pixar's Sanjay Patel, are focused on a different question. Rather than asking first whether the environments and lighting they're creating are convincingly lifelike, Patel and others are asking whether these elements reflect their films' unique stories.

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

A) It reflects a primary goal that many computer animators have for certain components of the animations they produce.

B) It represents a concern of computer animators who are more interested in creating unique backgrounds and lighting effects than realistic ones.

C) It conveys the uncertainty among many computer animators about how to create realistic animations using current technology.

D) It illustrates a reaction that audiences typically have to the appearance of characters created by computer animators.

9

The field of study called affective neuroscience seeks instinctive, physiological causes for feelings such as pleasure or displeasure. Because these sensations are linked to a chemical component (for example, the release of the neurotransmitter dopamine in the brain when one receives or expects a reward), they can be said to have a partly physiological basis. These processes have been described in mammals, but Jingnan Huang and his colleagues have recently observed that some behaviors of honeybees (such as foraging) are also motivated by a dopamine-based signaling process.

What choice best describes the main purpose of the text?

A) It describes an experimental method of measuring the strength of physiological responses in humans.

B) It illustrates processes by which certain insects can express how they are feeling.

C) It summarizes a finding suggesting that some mechanisms in the brains of certain insects resemble mechanisms in mammalian brains.

D) It presents research showing that certain insects and mammals behave similarly when there is a possibility of a reward for their actions.

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CONTINUE

10

In 2019, 20 previously unknown moons were confirmed to be orbiting Saturn. Three of the moons have prograde orbits (orbiting in the direction the planet spins), and the other 17 have retrograde orbits (orbiting in the opposite direction of the planet's spin). All but one of the 20 moons are thought to be remnants of bodies that orbited Saturn until they broke apart in collisions. Although the one exceptional moon orbits in the same direction as the planet's spin, its orbit is highly eccentric compared to the rest, which may suggest that it has a different origin than the other 19 moons.

Based on the text, which choice best describes the moon with the eccentric orbit?

A) It doesn't have a retrograde orbit, but it likely has the same origin as the moons with retrograde orbits.

B) Its orbit is so tilted with respect to the other moons' orbits that it's neither prograde nor retrograde.

C) It has a prograde orbit that is likely the result of having collided with another body orbiting Saturn.

D) It has a prograde orbit and may not be a remnant of an earlier body that orbited Saturn.

11

Several scholars have argued that conditions in England in the late ninth through early eleventh centuries—namely, burgeoning literacy amid running conflicts between England's Anglo-Saxon kingdoms and Danish invaders—were especially conducive to the production of the Old English epic poem *Beowulf*, and they have dated the poem's composition accordingly. It is not inconceivable that *Beowulf* emerged from such a context, but privileging contextual fit over the linguistic evidence of an eighth- or even seventh-century composition requires a level of justification that thus far has not been presented.

Which choice best states the main idea of the text?

A) Although there are some grounds for believing that *Beowulf* was composed between the late ninth and early eleventh centuries, advocates for that view tend to rely on evidence that has been called into question by advocates for an earlier date.

B) Although several scholars have dated *Beowulf* to the late ninth through early eleventh centuries, others have argued that doing so privileges a controversial interpretation of the social conditions of the period.

C) Although *Beowulf* fits well with the historical context of England in the late ninth through early eleventh centuries, it fits equally well with the historical context of England in the seventh and eighth centuries.

D) Although the claim of a late ninth- through early eleventh-century composition date for *Beowulf* has some plausibility, advocates for the claim have not compellingly addressed evidence suggesting an earlier date.

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CONTINUE

12

E-book Sales as a Percentage of Total Unit Sales in All Book Formats for a Large US Trade Publisher, by Genre, 2006, 2011, 2016

Genre	2006	2011	2016
science fiction and fantasy	0.6	27.7	36.7
cookbooks	0	2.9	10.5
travel guides	0	5.5	24.6
romance	0.3	40.6	56.2

E-books became an increasingly popular means of reading in the United States in the 2000s and 2010s, though that popularity was concentrated in titles that, like those in most fiction genres, are meant to be read straight through from beginning to end. For books in nonfiction genres that do not tell stories and require the reader to flip back and forth through a volume, e-books were significantly less commercially successful. This can be seen by comparing _____

Which choice most effectively uses data from the table to illustrate the claim?

A) the percentage of 2016 cookbook sales that were e-books with the percentage of 2016 science fiction and fantasy sales that were e-books.

B) the percentage of 2006 romance sales that were e-books with the percentage of 2016 romance sales that were e-books.

C) the percentage of 2006 romance sales that were e-books with the 2006 science fiction and fantasy sales that were e-books.

D) the percentage of 2011 travel guide sales that were e-books with the percentage of 2016 travel guide sales that were e-books.

13

Although most songbirds build open, cupped nests, some species build domed nests with roofs that provide much more protection. Many ecologists have assumed that domed nests would provide protection from weather conditions and thus would allow species that build them to have larger geographic ranges than species that build open nests do. To evaluate this assumption, a research team led by evolutionary biologist Iliana Medina analyzed data for over 3,000 species of songbirds.

Which finding from Medina and her colleagues' study, if true, would most directly challenge the assumption in the underlined sentence?

A) Species that build open nests tend to have higher extinction rates than species that build domed nests.

B) Species that build open nests tend to be smaller in size than species that build domed nests.

C) Species that build open nests tend to use fewer materials to build their nests than species that build domed nests do.

D) Species that build open nests tend to have larger ranges than species that build domed nests.

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CONTINUE

14

A student is writing a paper about *One Night in Miami...*, a 2020 film directed by Regina King and written by Kemp Powers. Powers adapted the film's screenplay from his 2013 play, which he wrote after learning about a 1964 meeting that took place in Miami, Florida, between four prominent figures of the Civil Rights movement: Malcolm X, Muhammad Ali, Jim Brown, and Sam Cooke. The student claims that although Powers was inspired by this meeting, the film is best understood not as a precise retelling of historical events but rather as a largely imagined but informed representation of them.

Which quotation from an article about *One Night in Miami...* would be the most effective evidence for the student to include in support of this claim?

A) "When Powers learned of the meeting, he initially planned to write a much longer work about its four famous participants rather than focusing on the meeting itself."

B) "*One Night in Miami...* received numerous awards and nominations, including an Academy Award nomination for Powers for Best Adapted Screenplay."

C) "Powers has described *One Night in Miami...* as the story of four friends encouraging and supporting one another while engaged in a crucial political debate about how best to achieve equality for Black people in the United States."

D) "Powers could find only the most superficial historical details about the meeting, so he read extensively about the four individuals and their thinking at the time in an effort to portray what might have happened between them."

15

When the Vinland Map, a map of the world purported to date to the mid-1400s, surfaced in 1957, some scholars believed it demonstrated that European knowledge of the eastern coast of present-day North America predated Christopher Columbus's 1492 arrival. In 2021, a team including conservators Marie-France Lemay and Paula Zyats and materials scientist Anikó Bezur performed an extensive analysis of the map and the ink used. They found that the ink contains titanium dioxide, a compound that was first introduced in ink manufacturing in the early 1900s. Therefore, the team concluded that _____

Which choice most logically completes the text?

A) mid-1400s Europeans could not have known about the eastern coast of present-day North America.

B) the Vinland Map could not have been drawn by mid-1400s mapmakers.

C) mapmakers must have used titanium compounds in their ink in the 1400s.

D) there isn't enough information to determine when the ink was created.

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CONTINUE

16

Aerogels are highly porous foams consisting mainly of tiny air pockets within a solidified gel. These lightweight materials are often applied to spacecraft and other equipment required to withstand extreme conditions, as they provide excellent insulation despite typically being brittle and eventually fracturing due to degradation from repeated exposure to high heat. Now, Xiangfeng Duan of the University of California, Los Angeles, and colleagues have developed an aerogel with uniquely flexible properties. Unlike earlier aerogels, Duan's team's material contracts rather than expands when heated and fully recovers after compressing to just 5% of its original volume, suggesting that _____

Which choice most logically completes the text?

A) the aerogel's remarkable flexibility results from its higher proportion of air pockets to solidified gel as compared to other aerogels.

B) the aerogel's overall strength is greater than that of other insulators but its ability to withstand exposure to intense heat is lower.

C) the aerogel will be more effective as an insulator for uses that involve gradual temperature shifts than for those that involve rapid heat increases.

D) the aerogel will be less prone to the structural weakness that ultimately causes most other aerogels to break down with use.

17

Some *Astyanax mexicanus*, a river-dwelling fish found in northeast Mexico, have colonized caves in the region. Although there is little genetic difference between river and cave *A. mexicanus* and all members of the species can emit the same sounds, biologist Carole Hyacinthe and colleagues found that the context and significance of those sounds vary by location—e.g., the click that river-dwelling *A. mexicanus* use to signal aggression is used by cave dwellers when foraging—and the acoustic properties of cave fish sounds show some cave-specific variations as well. Hyacinthe and colleagues note that differences in sonic communication could accumulate to the point of inhibiting interbreeding among fish from different locations, suggesting that _____

Which choice most logically completes the text?

A) although *A. mexicanus* living in rivers are genetically similar to those living in caves, river fish rely on sonic communication less than cave fish do.

B) although *A. mexicanus* is a single species at present, it could be in the process of splitting into distinct populations with different characteristics.

C) although all *A. mexicanus* emit sounds, the fish living in rivers produce some sounds that the fish living in caves do not, and vice versa.

D) although *A. mexicanus* from different locations can interbreed currently, river fish and cave fish are sufficiently genetically distinct that they can be considered separate species.

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CONTINUE

18

Geoglyphs are large-scale designs of lines or shapes created in a natural landscape. The Nazca Lines were created in the Nazca Desert in Peru by several Indigenous civilizations over a period of many centuries. Peruvian archaeologist Johny Isla specializes in these geoglyphs. At a German exhibit about the Nazca Lines, he saw an old photograph of a large geoglyph of a whalelike figure and was surprised that he didn't recognize it. Isla returned to Peru and used a drone to search a wide area, looking for the figure from the air. This approach suggests that Isla thought that if he hadn't already seen it, the whalelike geoglyph _____

Which choice most logically completes the text?

A) must represent a species of whale that went extinct before there were any people in Peru.

B) is actually located in Germany, not Peru, and isn't part of the Nazca Lines at all.

C) is probably in a location Isla hadn't ever come across while on the ground.

D) was almost certainly created a long time after the other Nazca Lines geoglyphs were created.

19

The sun never sets during the Arctic summer in the Far North. In response, reindeer in this region must change their sleep habits. Instead of resting when it gets dark, they rest when they need_____their food.

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

A) digest

B) will digest

C) to digest

D) digesting

20

Richard Spikes was a prolific African American inventor known for his contributions to automotive engineering. Between 1907 and 1946, he patented many inventions,_____an automobile turn signal, a safety brake, and—most famously—the first automatic gearshift.

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

A) included

B) includes

C) including

D) will include

21

The radiation that_____during the decay of radioactive atomic nuclei is known as gamma radiation.

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

A) occurs

B) have occurred

C) occur

D) are occurring

22

In 1903, environmentalist John Muir guided President Theodore Roosevelt on a scenic, sprawling trip through California's Yosemite Valley. Upon returning from the three-day excursion, Roosevelt _____ to conserve the nation's wilderness areas, a vow he upheld for his remaining six years in office.

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

A) is vowing

B) vowed

C) will vow

D) vows

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CONTINUE

23

Polyphenols are organic compounds _____ among their many roles, provide pigment that helps protect plants against ultraviolet radiation from sunlight.

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

A) that—

B) that;

C) that,

D) that:

24

In the early twentieth century, Joseph Kekuku and other Hawaiian_____in the mainland United States to the bright and lilting sound of the *kīkā kila*, or Hawaiian steel guitar. The instrument soon became a fixture in American blues and country music.

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

A) musicians introduced audiences

B) musicians' introduced audiences'

C) musician's introduced audience's

D) musicians' introduced audiences

25

Award-winning cinematographer James Wong Howe was known for his innovative filming techniques. While filming a boxing match for the movie *Body and Soul*_____Howe had a handheld camera operator wear roller skates. This allowed the operator to move smoothly around actors in a boxing ring, creating an immersive experience for viewers.

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

A) (1947), and

B) (1947),

C) (1947) and

D) (1947)

26

During the American Civil War, Thomas Morris Chester braved the front lines as a war correspondent for the *Philadelphia Press*. Amplifying the voices and experiences of Black soldiers_____of particular importance to Chester, who later became an activist and lawyer during the postwar Reconstruction period.

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

A) were

B) have been

C) are

D) was

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CONTINUE

27

Laetitia Ky's hair is her art. Inspired by hairstyles from various African tribes, the Ivorian artist uses wire and thread to sculpt her hair into all kinds of shapes._____she once made her hair into the shape of the continent of Africa—including the island of Madagascar!

Which choice completes the text with the most logical transition?

A) Soon,

B) Elsewhere,

C) For example,

D) However,

28

In 1885, Chinese-born California resident Mary Tape became a hero of the Asian American civil rights movement. In January of that year, she won an antidiscrimination case in the California Supreme Court._____in April, she wrote an open letter criticizing her local board of education for discrimination. Both actions are remembered today as historic stands against racism.

Which choice completes the text with the most logical transition?

A) Later,

B) For instance,

C) In other words,

D) Rather,

29

Phytoplankton play a crucial role in the ocean's uptake of carbon from the atmosphere. When alive, these tiny marine organisms absorb atmospheric carbon via photosynthesis._____after they die, the phytoplankton sink to the seafloor, where the carbon in their cells gets stored in sediment, preventing it from cycling back into the atmosphere.

Which choice completes the text with the most logical transition?

A) Specifically,

B) By contrast,

C) Nevertheless,

D) Then,

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CONTINUE

30

Originally coined by economist Joan Robinson to refer to markets with multiple sellers of a product but only one buyer, the term "monopsony" can also refer to markets where demand for labor is limited. In a product monopsony, the single buyer can force sellers to lower their prices._____in a labor monopsony, employers can force workers to accept lower wages.

Which choice completes the text with the most logical transition?

A) Earlier,

B) Instead,

C) Similarly,

D) In particular,

31

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

- J.R.R. Tolkien's 1937 novel *The Hobbit* features two maps.
- The novel opens with a reproduction of the map that the characters use on their quest.
- This map introduces readers to the fictional world they are about to enter.
- The novel closes with a map depicting every stop on the characters' journey.
- That map allows readers to reconstruct the story they have just read.

The student wants to contrast the purposes of the two maps in *The Hobbit*. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) *The Hobbit*'s opening map introduces readers to the fictional world they are about to enter, while the closing map allows them to reconstruct the story they have just read.

B) *The Hobbit*, a novel published by J.R.R. Tolkien in 1937, features a reproduction of a map that the characters use on their quest, as well as a map that appears at the end of the novel.

C) *The Hobbit*'s two maps, one opening and one closing the novel, each serve a purpose for readers.

D) In 1937, author J.R.R. Tolkien published *The Hobbit*, a novel featuring both an opening and a closing map.

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CONTINUE

32

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

- John Carver was one of the 41 signatories of the Mayflower Compact.
- The Mayflower Compact was a legal agreement among the pilgrims that immigrated to Plymouth Colony.
- It was created in 1620 to establish a common government.
- It states that the pilgrims who signed it wanted to "plant the first colony in the northern parts of Virginia" under King James.
- Carver became the first governor of Plymouth Colony.

The student wants to specify the reason the Mayflower Compact was created. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) Stating that its signatories wanted to "plant the first colony in the northern parts of Virginia," the Mayflower Compact was a legal agreement among the pilgrims that immigrated to Plymouth Colony.

B) Created in 1620, the Mayflower Compact states that the pilgrims wanted to "plant the first colony in the northern parts of Virginia."

C) The Mayflower Compact was created to establish a common government among the pilgrims that immigrated to Plymouth Colony.

D) The Mayflower Compact had 41 signatories, including John Carver, the first governor of Plymouth Colony.

33

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

- Cities tend to have a wide range of flowering vegetation in parks, yards, and gardens.
- This vegetation provides a varied diet for honeybees, strengthening bees' immune systems.
- On average, 62.5 percent of bees in an urban area will survive a harsh winter.
- Rural areas are often dominated by monoculture crops such as corn or wheat.
- On average, only 40 percent of honeybees in a rural area will survive a harsh winter.

The student wants to make and support a generalization about honeybees. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) Cities tend to have a wider range of flowering vegetation than do rural areas, which are often dominated by monoculture crops.

B) In urban areas, over 60 percent of honeybees, on average, will survive a harsh winter, whereas in rural areas, only 40 percent will.

C) The strength of honeybees' immune systems depends on what the bees eat, and a varied diet is more available to bees in an urban area than to those in a rural area.

D) Honeybees are more likely to thrive in cities than in rural areas because the varied diet available in urban areas strengthens the bees' immune systems.

STOP

If you finish before time is called, you may check your work on this module only. Do not turn to any other module in the test.

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No Test Material On This Page

SAT Practice 4

Reading and Writing

33 QUESTIONS

DIRECTIONS

The questions in this section address a number of important reading and writing skills. Each question includes one or more passages, which may include a table or graph. Read each passage and question carefully, and then choose the best answer to the question based on the passage(s).

All questions in this section are multiple-choice with four answer choices. Each question has a single best answer.

1

Archaeologists studying an ancient amphitheater in Switzerland believe that it dates back to the fourth century CE. Their discoveries of a coin made between 337 and 341 CE and era-appropriate building materials_____evidence for this theory.

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

A) dismiss

B) provide

C) regulate

D) refuse

2

The following text is adapted from Lewis Carroll's 1865 novel *Alice's Adventures in Wonderland*.

> "The second thing is to find my way into that lovely garden. I think that will be the best plan." It sounded like an excellent plan, no doubt, and very neatly and simply arranged; the only difficulty was, that Alice had not the smallest idea how to set about it.

As used in the text, what does the word "simply" most nearly mean?

A) Faintly

B) Hastily

C) Easily

D) Foolishly

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CONTINUE

3

Cucurbits, a group of plants that includes squash and melons, relied on mastodons to spread their seeds in the Ice Age. When these animals died out, cucurbits faced extinction in turn, having lost their means of seed dispersal. Around this time, however, the ancestors of Indigenous peoples in North America began raising cucurbits as crops, thus_____the plants' survival.

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

A) verifying

B) multiplying

C) comforting

D) ensuring

4

The recent discovery of a carved wooden figure dating to around 2,000 years ago in a ditch in England was truly surprising. Wooden objects _____ survive for so long due to their high susceptibility to rot, but archaeologists suspect layers of sediment in the ditch preserved the figure by creating an oxygen-free environment.

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

A) sturdily

B) carelessly

C) rarely

D) simply

5

Bicycle sharing systems allow users to rent a bicycle at one location within a city and return it to any other designated location in that city, which can cause serious problems of bicycle supply and user demand within the city's system. Tohru Ikeguchi uses open-source data and statistical modeling to identify when a high number of users making one-way trips is likely to leave some locations within the system_____bicycles and other areas with insufficient supply.

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

A) susceptible to

B) contingent on

C) saturated with

D) depleted of

6

When ancient oak planks were unearthed during subway construction in Rome, Mauro Bernabei and his team examined the growth rings in the wood to determine where these planks came from. By comparing the growth rings on the planks to records of similar rings in oaks from Europe, the team could trace the wood to the Jura region of France, hundreds of kilometers from Rome. <u>Because timber could only have been transported from distant Jura to Rome by boat, the team's findings suggest the complexity of Roman trade routes.</u>

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

A) It presents a conclusion about Roman trade routes based on the team's findings.

B) It questions how the team was able to conclude that the planks were used to build a boat.

C) It explains why the planks were made from oak rather than a different kind of wood.

D) It describes common methods used in Roman subway construction.

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CONTINUE

7

For his 1986 album *Keyboard Fantasies*, Beverly Glenn-Copeland wrote songs grounded in traditional soul and folk music, then accompanied them with futuristic synthesizer arrangements featuring ambient sounds and complex rhythms. The result was so strange, so unprecedented, that the album attracted little attention when first released. In recent years, however, a younger generation of musicians has embraced the stylistic experimentation of *Keyboard Fantasies*. Alternative R&B musicians Blood Orange and Moses Sumney, among other contemporary recording artists, cite the album as an influence.

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

A) It urges contemporary musicians to adopt the unique sound of *Keyboard Fantasies*.

B) It responds to criticism of *Keyboard Fantasies* by some younger musicians.

C) It offers examples of younger musicians whose work has been impacted by *Keyboard Fantasies*.

D) It contrasts *Keyboard Fantasies* with the recordings of two younger musicians.

8

A number of Indigenous politicians have been elected to the United States Congress since 2000 as members of the country's two established political parties. In Canada and several Latin American countries, on the other hand, Indigenous people have formed their own political parties to advance candidates who will advocate for the interests of their communities. This movement has been particularly successful in Ecuador, where Guadalupe Llori, a member of the Indigenous party known as Pachakutik, was elected president of the National Assembly in 2021.

Which choice best states the main purpose of the text?

A) To trace the history of an Indigenous political movement and speculate about its future development

B) To argue that Indigenous politicians in the United States should form their own political party

C) To highlight two approaches to achieving political representation for Indigenous people

D) To consider how Indigenous politicians in the United States have influenced Indigenous politicians in Canada and Latin America

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CONTINUE

9

Text 1
In a study of the benefits of having free time, Marissa Sharif found that the reported sense of life satisfaction tended to plateau when participants had two hours of free time per day and actually began to fall when they had five hours of free time per day. After further research, Sharif concluded that this dip in life satisfaction mainly occurred when individuals spent all their free time unproductively, such as by watching TV or playing games.

Text 2
Psychologist James Maddux cautions against suggesting an ideal amount of free time. The human desire for both free time and productivity is universal, but Maddux asserts that individuals have unique needs for life satisfaction. Furthermore, he points out that there is no objective definition for what constitutes productivity; reading a book might be considered a productive activity by some, but idleness by others.

Based on the texts, how would Maddux (Text 2) most likely respond to the conclusion Sharif (Text 1) reached after her further research?

A) By acknowledging that free time is more likely to enhance life satisfaction when it is spent productively than when it is spent unproductively

B) By challenging the reasoning in Text 1, as it has not been proved that productivity commonly contributes to individuals' life satisfaction

C) By warning against making an overly broad assumption, as there is no clear consensus in distinguishing between productive and unproductive activities

D) By claiming that the specific activities named in Text 1 are actually examples of productive activities rather than unproductive ones

10

Xin Wang and colleagues have discovered the earliest known example of a flower bud in a 164-million-year-old plant fossil in China. The researchers have named the new species *Florigerminis jurassica.* They believe that the discovery pushes the emergence of flowering plants, or angiosperms, back to the Jurassic period, which occurred between 145 million and 201 million years ago.

According to the text, how old was the fossil that Wang and colleagues discovered?

A) 150 million years old

B) 145 million years old

C) 164 million years old

D) 201 million years old

11

Modern dog breeds are largely the result of 160 years of owners crossbreeding certain dogs in order to select for particular physical appearances. Owners often say that some breeds are also more likely than others to have particular personality traits—basset hounds are affectionate; boxers are easy to train—but Kathleen Morrill and colleagues found through a combination of owner surveys and DNA sequencing of 2,000 dogs that while physical traits are predictably heritable among purebred dogs, behavior varies widely among dogs of the same breed.

Which choice best states the main idea of the text?

A) Dog breeds would not exist without many years of human intervention in dogs' reproduction.

B) Research fails to confirm a commonly held belief about dog breeds and behavior.

C) The dog breeds most popular among owners have often changed over the past 160 years.

D) A study of dog breeds is notable for its usage of both opinion surveys and DNA sequencing.

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CONTINUE

Paleontologist Lucas E. Fiorelli and colleagues have reported the discovery at a mine in Brazil of several egg clutches, partially preserved single eggs, and egg shells from the Late Cretaceous period. The researchers have concluded that the area was once a nesting and breeding site for titanosaurs, a group of sauropod dinosaurs. The finding is significant given the previous lack of known nesting sites in northern regions of South America, which led many paleontologists to assume that titanosaurs migrated south to lay eggs.

What does the text most strongly suggest about the site discovered by the researchers?

A) It is the earliest known example of a titanosaur nesting and breeding site.

B) It was very difficult to excavate given that it was discovered in a mine.

C) It may have been occupied by other sauropods in addition to titanosaurs.

D) It is farther north than any other nesting site discovered in South America.

Attendance and Cost of Hosting for Past Four US World's Fairs

World's fairs held in the US	Cost (in US dollars)	Number of visitors
Century 21 Exposition (1962)	$47 million	9.60 million
HemisFair '68	$156 million	6.40 million
1984 World's Fair	$350 million	7.35 million
Expo '74	$78 million	5.60 million

Huge international exhibitions known as world's fairs have been held since 1851, but the United States hasn't hosted one since 1984. Architecture expert Mina Chow argues that this is because some people think the events are too expensive and not popular enough. For example, the 1984 World's Fair cost $350 million and had only _____

Which choice most effectively uses data from the table to complete the example?

A) 7.35 million visitors.

B) 9.60 million visitors.

C) 6.40 million visitors.

D) 5.60 million visitors.

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CONTINUE

14

Sample of Food Items from Gemini Mission Menus

Food item	Day	Meal
Sugar cookie cubes	1	B
Chicken and vegetables	2	B
Shrimp cocktail	4	C
Hot cocoa	3	A

To make sure they got the nutrition they needed while in space, the astronauts of NASA's Gemini missions were given menus for three meals a day (meals A, B, and C) on a four-day rotating schedule. Looking at the sample of food items from these menus, a student notes that on day 1, the menu included _____

Which choice most effectively uses data from the table to complete the statement?

A) shrimp cocktail for meal B.

B) hot cocoa for meal C.

C) sugar cookie cubes for meal B.

D) chicken and vegetables for meal A.

15

An Ideal Husband is an 1895 play by Oscar Wilde. In the play, which is a satire, Wilde suggests that a character named Lady Gertrude Chiltern is perceived as both extremely virtuous and unforgiving, as is evident when another character says _____

Which quotation from *An Ideal Husband* most effectively illustrates the claim?

A) "Lady Chiltern is a woman of the very highest principles, I am glad to say. I am a little too old now, myself, to trouble about setting a good example, but I always admire people who do."

B) "Do you know, [Lady Chiltern], I don't mind your talking morality a bit. Morality is simply the attitude we adopt towards people whom we personally dislike."

C) "[Lady Chiltern] does not know what weakness or temptation is. I am of clay like other men. She stands apart as good women do—pitiless in her perfection—cold and stern and without mercy."

D) "Lady Chiltern, you are a sensible woman, the most sensible woman in London, the most sensible woman I know."

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CONTINUE

Percentage of Available Eggs Eaten by Cane Toad Tadpoles

Amphibian species (common name)	Percentage of eggs eaten	Native to Australia	Produces bufadienolide
Little red tree frog	1%	yes	no
Cane toad	90%	no	yes
Short-footed frog	7%	yes	no
Striped burrowing frog	10%	yes	no
Dainty green tree frog	1%	yes	no

Native to Latin America, the cane toad was introduced to Australia in the 1930s. In recent decades, tadpoles in the Australian population have been shown to consume eggs of their own species. A 2022 study showed that when presented with cane toad eggs as well as eggs of native Australian amphibians, cane toad tadpoles disproportionately consumed eggs of their own species. This behavior results from their attraction to bufadienolide, a chemical produced by the eggs of cane toads but not by the eggs of native amphibians. However, using data from this study, a student wishes to argue that the presence of bufadienolide doesn't entirely explain the cane toad tadpoles' preference for certain eggs over others.

Which choice best describes data from the table that support the student's argument?

A) The tadpoles consumed a higher percentage of the striped burrowing frog eggs than they did of the eggs of the dainty green tree frog.

B) The tadpoles left a certain percentage of the eggs of each of the five species unharmed, thus ultimately allowing them to hatch.

C) The tadpoles consumed a lower percentage of the short-footed frog eggs than they did of the eggs of their own species.

D) The tadpoles consumed the same percentage of the dainty green tree frog eggs as they did of the little red tree frog eggs.

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CONTINUE

17

The Intertropical Convergence Zone (ITCZ), a band of clouds that encircles Earth in the tropics and is a major rainfall source, shifts position in response to temperature variations across Earth's hemispheres. Data from Huagapo Cave in Peru suggest the ITCZ shifted south during the Little Ice Age (circa 1300–1850), but a shift as far into South America as Huagapo should have led to dry conditions in Central America, which is inconsistent with climate models. To resolve the issue, geologist Yemane Asmerom and colleagues collected data from Yok Balum Cave in Central America and compared them with the Huagapo data. They concluded that during the Little Ice Age, the ITCZ may have expanded northward and southward rather than simply shifted.

Which finding from Asmerom and colleagues' study, if true, would most directly support their conclusion?

A) Neither the Yok Balum data nor the Huagapo data show significant local variations in temperature during the Little Ice Age.

B) Both the Yok Balum data and the Huagapo data show increased temperatures and prolonged dry conditions during the Little Ice Age.

C) The Yok Balum data show prolonged dry conditions during the same portions of the Little Ice Age in which the Huagapo data show heightened levels of rainfall.

D) The Yok Balum data and the Huagapo data show strongly correlated patterns of high rainfall during the Little Ice Age.

18

Some businesses believe that when employees are interrupted while doing their work, they experience a decrease in energy and productivity. However, a team led by Harshad Puranik, who studies management, has found that interruptions by colleagues can have a social component that increases employees' sense of belonging, resulting in greater job satisfaction that benefits employees and employers. Therefore, businesses should recognize that _____

Which choice most logically completes the text?

A) the interpersonal benefits of some interruptions in the workplace may offset the perceived negative effects.

B) in order to maximize productivity, employers should be willing to interrupt employees frequently throughout the day.

C) most employees avoid interrupting colleagues because they don't appreciate being interrupted themselves.

D) in order to cultivate an ideal workplace environment, interruptions of work should be discouraged.

19

The US Geological Survey wants to map every human-made structure in the United States, and it is asking volunteers to help. Cassie Tammy Wang and Ashish D'Souza are just two of the many volunteer map editors who_____to the project since it began in 2012.

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

A) contribute

B) will contribute

C) have contributed

D) will be contributing

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CONTINUE

Smaller than poppy seeds, tardigrades are tiny, but they are tough. These minuscule animals can survive for thirty years without food or water, and _____ can withstand extreme temperatures as low as minus 328 degrees and as high as 304 degrees Fahrenheit.

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

A) that
B) it
C) they
D) he

21

Emperor penguins don't waddle out of the ocean. They launch themselves at such a high speed that they travel up to two meters before landing. How _____ A layer of microbubbles on their plumage reduces friction as the penguins speed to the surface.

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

A) they are able to move so fast!
B) are they able to move so fast.
C) they are able to move so fast.
D) are they able to move so fast?

Before the Erie Canal was completed in 1825, transporting goods by wagon between New York City and the Midwest took up to forty-five days and cost one hundred dollars per ton. By linking the Hudson River to Lake_____canal reduced transport time to nine days and cut costs to six dollars per ton.

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

A) Erie; the
B) Erie (the
C) Erie, the
D) Erie: the

23

Generations of mystery and horror_____have been influenced by the dark, gothic stories of celebrated American author Edgar Allan Poe (1809–1849).

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

A) writers
B) writers,
C) writers—
D) writers;

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CONTINUE

24

Midway through her 1968 jazz album *A Monastic Trio*, Alice Coltrane switches instruments, swapping the piano for the harp. With the same fluid style that Coltrane was famous for on piano, she_____her fingers across the harp strings and creates a radiant sound.

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

A) sweep
B) are sweeping
C) were sweeping
D) sweeps

25

Mathematician and meteorologist Edward Lorenz used the metaphor of the "butterfly effect" to explain how seemingly minor events can have major impacts on future weather. According to Lorenz's metaphor, the wind from a butterfly flapping_____in Brazil might eventually grow into a storm elsewhere across the globe.

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

A) its wings
B) its wings'
C) it's wing's
D) it's wings'

26

On sunny days, dark rooftops absorb solar energy and convert it to unwanted heat, raising the surrounding air_____a light-colored covering to an existing dark roof, either by attaching prefabricated reflective sheets or spraying on a paint-like coating, helps combat this effect.

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

A) temperature; by adding
B) temperature, adding
C) temperature. Adding
D) temperature by adding

27

The haiku-like poems of Tomas Tranströmer, which present nature- and dream-influenced images in crisp, spare language, have earned the Swedish poet praise from leading contemporary_____them Nigerian American essayist and novelist Teju Cole, who has written that Tranströmer's works "contain a luminous simplicity."

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

A) writers. Among
B) writers among
C) writers; among
D) writers, among

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CONTINUE

28

In studying whether jellyfish sleep, researchers Michael Abrams, Claire Bedbrook, and Ravi Nath attempted to answer three questions._____is there a period each day when the pulse rates of jellyfish decline? Second, do jellyfish respond more slowly to stimuli during that period? Finally, if prevented from sleeping, are jellyfish adversely affected?

Which choice completes the text with the most logical transition?

A) As a result,

B) First,

C) Additionally,

D) However,

29

With her room-sized installation *The Interstitium*, Iranian American artist Laleh Mehran succeeded in creating a space that felt, as intended, both "familiar and distant."_____with a video screen placed at the far end of the coal slag-encrusted room, her installation was reminiscent of a typical movie theater—albeit one found in a subterranean coal mine.

Which choice completes the text with the most logical transition?

A) Next,

B) Nevertheless,

C) Indeed,

D) Instead,

30

In response to adverse environmental conditions, many plants produce abscisic acid (ABA), a stress hormone. ABA triggers a slowdown in the biological processes of most plants._____when the mustard plant *Schrenkiella parvula* produces ABA in response to an environmental stressor, the hormone triggers accelerated growth.

Which choice completes the text with the most logical transition?

A) Moreover,

B) In contrast,

C) For example,

D) Thus,

31

Historically, most conductors of major orchestras and opera companies have been European men, but a new, more diverse generation of artists is stepping up to the podium. Mexico's Alondra de la Parra took over as conductor for the Queensland Symphony Orchestra in 2017,_____and Colombia's Lina Gonzalez-Granados did the same for the Los Angeles Opera in 2022.

Which choice completes the text with the most logical transition?

A) in addition,

B) lastly,

C) granted,

D) for instance,

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CONTINUE

32

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

- Planetary scientists classify asteroids based on their composition.
- C-type asteroids are composed primarily of carbon.
- They account for roughly 75 percent of known asteroids.
- S-type asteroids are primarily made up of silicate minerals.
- They account for roughly 17 percent of known asteroids.

The student wants to emphasize a difference between C-type and S-type asteroids. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) Planetary scientists classify asteroids into types, two of which are the C-type and the S-type.

B) Planetary scientists consider an asteroid's composition (such as whether the asteroid is composed mainly of silicate minerals or carbon) when classifying it.

C) Roughly 17 percent of known asteroids are classified as S-type asteroids; another percentage is classified as C-type asteroids.

D) C-type asteroids are mainly composed of carbon, whereas S-type asteroids are primarily made up of silicate minerals.

33

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

- A commodity chain is the series of links connecting the production and purchase of a commodity on the world market.
- Chinese American anthropologist Anna Tsing studies the contemporary commodity chain of matsutake mushrooms.
- At one end of the matsutake chain are mushroom pickers in Oregon.
- At the other end are wealthy consumers who buy the costly matsutake in Japan.
- According to Tsing, "Japanese traders began importing matsutake in the 1980s, when the scarcity of matsutake in Japan first became clear."

The student wants to provide an overview of the matsutake commodity chain. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) The contemporary matsutake commodity chain has its origins in the 1980s when, according to Tsing, "the scarcity of matsutake in Japan first became clear."

B) Commodity chains include the linked production and purchase of commodities, such as the matsutake mushroom, on the world market.

C) Decades after the Japanese import of matsutake began, a commodity chain now links matsutake pickers in Oregon with wealthy consumers of the costly mushrooms in Japan.

D) Wealthy consumers who buy the costly mushrooms in Japan are at one end of the matsutake commodity chain.

STOP

If you finish before time is called, you may check your work on this module only. Do not turn to any other module in the test.

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Test begins on the next page.

SAT Practice 5

Reading and Writing

33 QUESTIONS

DIRECTIONS

The questions in this section address a number of important reading and writing skills. Each question includes one or more passages, which may include a table or graph. Read each passage and question carefully, and then choose the best answer to the question based on the passage(s).

All questions in this section are multiple-choice with four answer choices. Each question has a single best answer.

1

Former astronaut Ellen Ochoa says that although she doesn't have a definite idea of when it might happen, she_____that humans will someday need to be able to live in other environments than those found on Earth. This conjecture informs her interest in future research missions to the moon.

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

A) demands

B) speculates

C) doubts

D) establishes

2

Beginning in the 1950s, Navajo Nation legislator Annie Dodge Wauneka continuously worked to promote public health; this_____effort involved traveling throughout the vast Navajo homeland and writing a medical dictionary for speakers of *Diné bizaad*, the Navajo language.

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

A) impartial

B) offhand

C) persistent

D) mandatory

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CONTINUE

3

Following the principles of community-based participatory research, tribal nations and research institutions are equal partners in health studies conducted on reservations. A collaboration between the Crow Tribe and Montana State University _____this model: tribal citizens worked alongside scientists to design the methodology and continue to assist in data collection.

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

A) circumvents
B) eclipses
C) fabricates
D) exemplifies

4

The parasitic dodder plant increases its reproductive success by flowering at the same time as the host plant it has latched onto. In 2020, Jianqiang Wu and his colleagues determined that the tiny dodder achieves this_____with its host by absorbing and utilizing a protein the host produces when it is about to flower.

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

A) synchronization
B) hibernation
C) prediction
D) moderation

5

Given that the conditions in binary star systems should make planetary formation nearly impossible, it's not surprising that the existence of planets in such systems has lacked_____explanation. Roman Rafikov and Kedron Silsbee shed light on the subject when they used modeling to determine a complex set of factors that could support planets' development.

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

A) a discernible
B) a straightforward
C) an inconclusive
D) an unbiased

6

Seminole/Muscogee director Sterlin Harjo _____television's tendency to situate Native characters in the distant past: this rejection is evident in his series *Reservation Dogs*, which revolves around teenagers who dress in contemporary styles and whose dialogue is laced with current slang.

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

A) repudiates
B) proclaims
C) foretells
D) recants

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CONTINUE

7

In 2007, computer scientist Luis von Ahn was working on converting printed books into a digital format. He found that some words were distorted enough that digital scanners couldn't recognize them, but most humans could easily read them. Based on that finding, von Ahn invented a simple security test to keep automated "bots" out of websites. The first version of the reCAPTCHA test asked users to type one known word and one of the many words scanners couldn't recognize. Correct answers proved the users were humans and added data to the book-digitizing project.

Which choice best states the main purpose of the text?

A) To discuss von Ahn's invention of reCAPTCHA

B) To explain how digital scanners work

C) To call attention to von Ahn's book-digitizing project

D) To indicate how popular reCAPTCHA is

8

The following text is from Edith Wharton's 1905 novel *The House of Mirth*. Lily Bart and a companion are walking through a park.

> Lily had no real intimacy with nature, but she had a passion for the appropriate and could be keenly sensitive to a scene which was the fitting background of her own sensations. <u>The landscape outspread below her seemed an enlargement of her present mood, and she found something of herself in its calmness, its breadth, its long free reaches.</u> On the nearer slopes the sugar-maples wavered like pyres of light; lower down was a massing of grey orchards, and here and there the lingering green of an oak-grove.

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

A) It creates a detailed image of the physical setting of the scene.

B) It establishes that a character is experiencing an internal conflict.

C) It makes an assertion that the next sentence then expands on.

D) It illustrates an idea that is introduced in the previous sentence.

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CONTINUE

A study by a team including finance professor Madhu Veeraraghavan suggests that exposure to sunshine during the workday can lead to overly optimistic behavior. Using data spanning from 1994 to 2010 for a set of US companies, the team compared over 29,000 annual earnings forecasts to the actual earnings later reported by those companies. The team found that the greater the exposure to sunshine at work in the two weeks before a manager submitted an earnings forecast, the more the manager's forecast exceeded what the company actually earned that year.

Which choice best states the function of the underlined sentence in the overall structure of the text?

A) To summarize the results of the team's analysis

B) To present a specific example that illustrates the study's findings

C) To explain part of the methodology used in the team's study

D) To call out a challenge the team faced in conducting its analysis

10

The following text is adapted from Edith Nesbit's 1906 novel *The Railway Children*.

> Mother did not spend all her time in paying dull [visits] to dull ladies, and sitting dully at home waiting for dull ladies to pay [visits] to her. She was almost always there, ready to play with the children, and read to them, and help them to do their home-lessons. Besides this she used to write stories for them while they were at school, and read them aloud after tea, and she always made up funny pieces of poetry for their birthdays and for other great occasions.

According to the text, what is true about Mother?

A) She wishes that more ladies would visit her.

B) Birthdays are her favorite special occasion.

C) She creates stories and poems for her children.

D) Reading to her children is her favorite activity.

The following text is from Maggie Pogue Johnson's 1910 poem "Poet of Our Race." In this poem, the speaker is addressing Paul Laurence Dunbar, a Black author.

> Thou, with stroke of mighty pen,
> Hast told of joy and mirth,
> And read the hearts and souls of men
> As cradled from their birth.
> The language of the flowers,
> Thou hast read them all,
> And e'en the little brook
> Responded to thy call.

Which choice best states the main purpose of the text?

A) To praise a certain writer for being especially perceptive regarding people and nature

B) To establish that a certain writer has read extensively about a variety of topics

C) To call attention to a certain writer's careful and elaborately detailed writing process

D) To recount fond memories of an afternoon spent in nature with a certain writer

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CONTINUE

"To You" is an 1856 poem by Walt Whitman. In the poem, Whitman suggests that readers, whom he addresses directly, have not fully understood themselves, writing, _____

Which quotation from "To You" most effectively illustrates the claim?

A) "You have not known what you are, you have slumber'd upon yourself / all your life, / Your eyelids have been the same as closed most of the time."

B) "These immense meadows, these interminable rivers, you are immense / and interminable as they."

C) "I should have made my way straight to you long ago, / I should have blabb'd nothing but you, I should have chanted nothing / but you."

D) "I will leave all and come and make the hymns of you, / None has understood you, but I understand you."

Born in 1891 to a Quechua-speaking family in the Andes Mountains of Peru, Martín Chambi is today considered to be one of the most renowned figures of Latin American photography. In a paper for an art history class, a student claims that Chambi's photographs have considerable ethnographic value—in his work, Chambi was able to capture diverse elements of Peruvian society, representing his subjects with both dignity and authenticity.

Which finding, if true, would most directly support the student's claim?

A) Chambi took many commissioned portraits of wealthy Peruvians, but he also produced hundreds of images carefully documenting the peoples, sites, and customs of Indigenous communities of the Andes.

B) Chambi's photographs demonstrate a high level of technical skill, as seen in his strategic use of illumination to create dramatic light and shadow contrasts.

C) During his lifetime, Chambi was known and celebrated both within and outside his native Peru, as his work was published in places like Argentina, Spain, and Mexico.

D) Some of the peoples and places Chambi photographed had long been popular subjects for Peruvian photographers.

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CONTINUE

Credited Film Output of James Young Deer, Dark Cloud, Edwin Carewe, and Lillian St. Cyr

Individual	Years active	Number of films known and commonly credited
James Young Deer	1909–1924	33 (actor), 35 (director), 10 (writer)
Dark Cloud	1910–1920	35 (actor), 1 (writer)
Edwin Carewe	1912–1934	47 (actor), 58 (director), 20 (producer), 4 (writer)
Lillian St. Cyr (Red Wing)	1908–1921	66 (actor)

Some researchers studying Indigenous actors and filmmakers in the United States have turned their attention to the early days of cinema, particularly the 1910s and 1920s, when people like James Young Deer, Dark Cloud, Edwin Carewe, and Lillian St. Cyr (known professionally as Red Wing) were involved in one way or another with numerous films. In fact, so many films and associated records for this era have been lost that counts of those four figures' output should be taken as bare minimums rather than totals; it's entirely possible, for example, that _____

Which choice most effectively uses data from the table to complete the example?

A) Dark Cloud acted in significantly fewer films than did Lillian St. Cyr, who is credited with 66 performances.

B) Edwin Carewe's 47 credited acting roles includes only films made after 1934.

C) Lillian St. Cyr acted in far more than 66 films and Edwin Carewe directed more than 58.

D) James Young Deer actually directed 33 films and acted in only 10.

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CONTINUE

Juvenile Plants Found Growing on Bare Ground and in Patches of Vegetation for Five Species

Species	Bare ground	Patches of vegetation	Total	Percent found in patches of vegetation
T. moroderi	9	13	22	59.1%
T. libanitis	83	120	203	59.1%
H. syriacim	95	106	201	52.7%
H. squamatum	218	321	539	59.6%
H. stoechas	11	12	23	52.2%

Alicia Montesinos-Navarro, Isabelle Storer, and Rocío Perez-Barrales recently examined several plots within a diverse plant community in southeast Spain. The researchers calculated that if individual plants were randomly distributed on this particular landscape, only about 15% would be with other plants in patches of vegetation. They counted the number of juvenile plants of five species growing in patches of vegetation and the number growing alone on bare ground and compared those numbers to what would be expected if the plants were randomly distributed. Based on these results, they claim that plants of these species that grow in close proximity to other plants gain an advantage at an early developmental stage.

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

A) For all five species, less than 75% of juvenile plants were growing in patches of vegetation.

B) The species with the greatest number of juvenile plants growing in patches of vegetation was *H. stoechas*.

C) For *T. libanitis* and *T. moroderi*, the percentage of juvenile plants growing in patches of vegetation was less than what would be expected if plants were randomly distributed.

D) For each species, the percentage of juvenile plants growing in patches of vegetation was substantially higher than what would be expected if plants were randomly distributed.

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CONTINUE

In the mountains of Brazil, *Barbacenia tomentosa* and *Barbacenia macrantha*—two plants in the Velloziaceae family—establish themselves on soilless, nutrient-poor patches of quartzite rock. Plant ecologists Anna Abrahão and Patricia de Britto Costa used microscopic analysis to determine that the roots of *B. tomentosa* and *B. macrantha*, which grow directly into the quartzite, have clusters of fine hairs near the root tip; further analysis indicated that these hairs secrete both malic and citric acids. The researchers hypothesize that the plants depend on dissolving underlying rock with these acids, as the process not only creates channels for continued growth but also releases phosphates that provide the vital nutrient phosphorus.

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

A) Other species in the Velloziaceae family are found in terrains with more soil but have root structures similar to those of *B. tomentosa* and *B. macrantha.*

B) Though *B. tomentosa* and *B. macrantha* both secrete citric and malic acids, each species produces the acids in different proportions.

C) The roots of *B. tomentosa* and *B. macrantha* carve new entry points into rocks even when cracks in the surface are readily available.

D) *B. tomentosa* and *B. macrantha* thrive even when transferred to the surfaces of rocks that do not contain phosphates.

Herbivorous sauropod dinosaurs could grow more than 100 feet long and weigh up to 80 tons, and some researchers have attributed the evolution of sauropods to such massive sizes to increased plant production resulting from high levels of atmospheric carbon dioxide during the Mesozoic era. However, there is no evidence of significant spikes in carbon dioxide levels coinciding with relevant periods in sauropod evolution, such as when the first large sauropods appeared, when several sauropod lineages underwent further evolution toward gigantism, or when sauropods reached their maximum known sizes, suggesting that _____

Which choice most logically completes the text?

A) fluctuations in atmospheric carbon dioxide affected different sauropod lineages differently.

B) the evolution of larger body sizes in sauropods did not depend on increased atmospheric carbon dioxide.

C) atmospheric carbon dioxide was higher when the largest known sauropods lived than it was when the first sauropods appeared.

D) sauropods probably would not have evolved to such immense sizes if atmospheric carbon dioxide had been even slightly higher.

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CONTINUE

In documents called judicial opinions, judges explain the reasoning behind their legal rulings, and in those explanations they sometimes cite and discuss historical and contemporary philosophers. Legal scholar and philosopher Anita L. Allen argues that while judges are naturally inclined to mention philosophers whose views align with their own positions, the strongest judicial opinions consider and rebut potential objections; discussing philosophers whose views conflict with judges' views could therefore _____

Which choice most logically completes the text?

A) allow judges to craft judicial opinions without needing to consult philosophical works.

B) help judges improve the arguments they put forward in their judicial opinions.

C) make judicial opinions more comprehensible to readers without legal or philosophical training.

D) bring judicial opinions in line with views that are broadly held among philosophers.

19

Public-awareness campaigns about the need to reduce single-use plastics can be successful, says researcher Kim Borg of Monash University in Australia, when these campaigns give consumers a choice: for example, Japan achieved a 40 percent reduction in plastic-bag use after cashiers were instructed to ask customers whether _____ wanted a bag.

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

A) they

B) one

C) you

D) it

In ancient Greece, an Epicurean was a follower of Epicurus, a philosopher whose beliefs revolved around the pursuit of pleasure. Epicurus defined pleasure as "the absence of pain in the body and of trouble in the_____that all life's virtues derived from this absence.

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

A) soul," positing

B) soul": positing

C) soul"; positing

D) soul." Positing

21

British scientists James Watson and Francis Crick won the Nobel Prize in part for their 1953 paper announcing the double helix structure of DNA, but it is misleading to say that Watson and Crick discovered the double helix._____findings were based on a famous X-ray image of DNA fibers, "Photo 51," developed by X-ray crystallographer Rosalind Franklin and her graduate student Raymond Gosling.

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

A) They're

B) It's

C) Their

D) Its

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CONTINUE

22

In 1937, Chinese American screen actor Anna May Wong, who had portrayed numerous villains and secondary characters but never a heroine, finally got a starring role in Paramount Pictures' *Daughter of Shanghai*, a film that_____"expanded the range of possibilities for Asian images on screen."

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

A) critic, Stina Chyn, claims

B) critic, Stina Chyn, claims,

C) critic Stina Chyn claims

D) critic Stina Chyn, claims,

23

In 1637, the price of tulips skyrocketed in Amsterdam, with single bulbs of rare varieties selling for up to the equivalent of $200,000 in today's US dollars. Some historians_____that this "tulip mania" was the first historical instance of an asset bubble, which occurs when investors drive prices to highs not supported by actual demand.

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

A) claiming

B) claim

C) having claimed

D) to claim

24

Researchers studying magnetosensation have determined why some soil-dwelling roundworms in the Southern Hemisphere move in the opposite direction of Earth's magnetic field when searching for_____in the Northern Hemisphere, the magnetic field points down, into the ground, but in the Southern Hemisphere, it points up, toward the surface and away from worms' food sources.

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

A) food:

B) food,

C) food while

D) food

25

Scientists believe that, unlike most other species of barnacle, turtle barnacles (*Chelonibia testudinari*) can dissolve the cement-like secretions they use to attach_____to a sea turtle shell, enabling the barnacles to move short distances across the shell's surface.

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

A) it

B) themselves

C) them

D) itself

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CONTINUE

26

The classic children's board game Chutes and Ladders is a version of an ancient Nepalese game, Paramapada Sopanapata. In both games, players encounter "good" or "bad" spaces while traveling along a path; landing on one of the good spaces _____a player to skip ahead and arrive closer to the end goal.

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

A) allows

B) are allowing

C) have allowed

D) allow

27

In 1943, in the midst of World War II, mathematics professor Grace Hopper was recruited by the US military to help the war effort by solving complex equations. Hopper's subsequent career would involve more than just_____as a pioneering computer programmer, Hopper would help usher in the digital age.

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

A) equations, though:

B) equations, though,

C) equations. Though,

D) equations though

28

In 1453, English King Henry VI became unfit to rule after falling gravely ill. As a result, Parliament appointed Richard, Third Duke of York, who had a strong claim to the English throne, to rule as Lord Protector. Upon recovering two years later, _____ forcing an angered Richard from the royal court and precipitating a series of battles later known as the Wars of the Roses.

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

A) Henry resumed his reign,

B) the reign of Henry resumed,

C) Henry's reign resumed,

D) it was Henry who resumed his reign,

29

Although novels and poems are considered distinct literary forms, many authors have created hybrid works that incorporate elements of both. Bernardine Evaristo's *The Emperor's Babe*,_____is a verse novel, a book-length narrative complete with characters and a plot but conveyed in short, crisp lines of poetry rather than prose.

Which choice completes the text with the most logical transition?

A) by contrast,

B) consequently,

C) secondly,

D) for example,

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CONTINUE

30

At two weeks old, the time their critical socialization period begins, wolves can smell but cannot yet see or hear. Domesticated dogs,_____can see, hear, and smell by the end of two weeks. This relative lack of sensory input may help explain why wolves behave so differently around humans than dogs do: from a very young age, wolves are more wary and less exploratory.

Which choice completes the text with the most logical transition?

A) in other words,

B) for instance,

C) by contrast,

D) accordingly,

31

Researchers Helena Mihaljević-Brandt, Lucía Santamaría, and Marco Tullney report that while mathematicians may have traditionally worked alone, evidence points to a shift in the opposite direction._____mathematicians are choosing to collaborate with their peers—a trend illustrated by a rise in the number of mathematics publications credited to multiple authors.

Which choice completes the text with the most logical transition?

A) Similarly,

B) For this reason,

C) Furthermore,

D) Increasingly,

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CONTINUE

32

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

- Pterosaurs were flying reptiles that existed millions of years ago.
- In a 2021 study, Anusuya Chinsamy-Turan analyzed fragments of pterosaur jawbones located in the Sahara Desert.
- She was initially unsure if the bones belonged to juvenile or adult pterosaurs.
- She used advanced microscope techniques to determine that the bones had few growth lines relative to the bones of fully grown pterosaurs.
- She concluded that the bones belonged to juveniles.

The student wants to present the study and its findings. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) In 2021, Chinsamy-Turan studied pterosaur jawbones and was initially unsure if the bones belonged to juveniles or adults.

B) Pterosaur jawbones located in the Sahara Desert were the focus of a 2021 study.

C) In a 2021 study, Chinsamy-Turan used advanced microscope techniques to analyze the jawbones of pterosaurs, flying reptiles that existed millions of years ago.

D) In a 2021 study, Chinsamy-Turan determined that pterosaur jawbones located in the Sahara Desert had few growth lines relative to the bones of fully grown pterosaurs and thus belonged to juveniles.

33

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

- African American women played prominent roles in the Civil Rights Movement, including at the famous 1963 March on Washington.
- Civil rights activist Anna Hedgeman, one of the march's organizers, was a political adviser who had worked for President Truman.
- Civil rights activist Daisy Bates was a well-known journalist and advocate for school desegregation.
- Hedgeman worked behind the scenes to make sure a woman was included in the lineup of speakers at the march.
- Bates was the sole woman to speak, delivering a brief but memorable address to the cheering crowd.

The student wants to compare the two women's contributions to the March on Washington. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) Hedgeman and Bates contributed to the march in different ways; Bates, for example, delivered a brief but memorable address.

B) Hedgeman worked in politics and helped organize the march, while Bates was a journalist and school desegregation advocate.

C) Although Hedgeman worked behind the scenes to make sure a woman speaker was included, Bates was the sole woman to speak at the march.

D) Many African American women, including Bates and Hedgeman, fought for civil rights, but only one spoke at the march.

STOP

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Do not turn to any other module in the test.

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SAT Practice 6

Reading and Writing

33 QUESTIONS

DIRECTIONS

The questions in this section address a number of important reading and writing skills. Each question includes one or more passages, which may include a table or graph. Read each passage and question carefully, and then choose the best answer to the question based on the passage(s).

All questions in this section are multiple-choice with four answer choices. Each question has a single best answer.

1

For painter Jacob Lawrence, being_____was an important part of the artistic process. Because he paid close attention to all the details of his Harlem neighborhood, Lawrence's artwork captured nuances in the beauty and vitality of the Black experience during the Harlem Renaissance and the Great Migration.

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

A) skeptical

B) observant

C) critical

D) confident

2

Mônica Lopes-Ferreira and others at Brazil's Butantan Institute are studying the freshwater stingray species *Potamotrygon rex* to determine whether biological characteristics such as the rays' age and sex have_____effect on the toxicity of their venom—that is, to see if differences in these traits are associated with considerable variations in venom potency.

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

A) a disconcerting

B) an acceptable

C) an imperceptible

D) a substantial

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CONTINUE

3

Researchers have struggled to pinpoint specific causes for hiccups, which happen when a person's diaphragm contracts_____. However, neuroscientist Kimberley Whitehead has found that these uncontrollable contractions may play an important role in helping infants regulate their breathing.

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

A) involuntarily

B) beneficially

C) strenuously

D) smoothly

4

Critics have asserted that fine art and fashion rarely _____in a world where artists create timeless works for exhibition and designers periodically produce new styles for the public to buy. Luiseño/Shoshone-Bannock beadwork artist and designer Jamie Okuma challenges this view: her work can be seen in the Metropolitan Museum of Art and purchased through her online boutique.

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

A) prevail

B) succumb

C) diverge

D) intersect

5

Scholarly discussions of gender in Shakespeare's comedies often celebrate the rebellion of the playwright's characters against the rigid expectations _____by Elizabethan society. Most of the comedies end in marriage, with characters returning to their socially dictated gender roles after previously defying them, but there are some notable exceptions.

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

A) interjected

B) committed

C) illustrated

D) prescribed

6

In studying the use of external stimuli to reduce the itching sensation caused by an allergic histamine response, Louise Ward and colleagues found that while harmless applications of vibration or warming can provide a temporary distraction, such _____ stimuli actually offer less relief than a stimulus that seems less benign, like a mild electric shock.

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

A) deceptive

B) innocuous

C) novel

D) impractical

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CONTINUE

7

The province of Xoconochco was situated on the Pacific coast, hundreds of kilometers southeast of Tenochtitlan, the capital of the Aztec Empire. Because Xoconochco's location within the empire was so_____, cacao and other trade goods produced there could reach the capital only after a long overland journey.

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

A) unobtrusive

B) concealed

C) approximate

D) peripheral

8

The following text is from Charlotte Brontë's 1847 novel *Jane Eyre*. Jane works as a governess at Thornfield Hall.

> I went on with my day's business tranquilly; but ever and anon vague suggestions kept wandering across my brain of reasons why I should quit Thornfield; and I kept involuntarily framing advertisements and pondering conjectures about new situations: these thoughts I did not think to check; they might germinate and bear fruit if they could.

Which choice best states the main purpose of the text?

A) To convey a contrast between Jane's outward calmness and internal restlessness

B) To emphasize Jane's loyalty to the people she works for at Thornfield Hall

C) To demonstrate that Jane finds her situation both challenging and deeply fulfilling

D) To describe Jane's determination to secure employment outside of Thornfield Hall

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CONTINUE

9

Text 1
Most animals can regenerate some parts of their bodies, such as skin. But when a three-banded panther worm is cut into three pieces, each piece grows into a new worm. Researchers are investigating this feat partly to learn more about humans' comparatively limited abilities to regenerate, and they're making exciting progress. An especially promising discovery is that both humans and panther worms have a gene for early growth response (EGR) linked to regeneration.

Text 2
When Mansi Srivastava and her team reported that panther worms, like humans, possess a gene for EGR, it caused excitement. However, as the team pointed out, the gene likely functions very differently in humans than it does in panther worms. Srivastava has likened EGR to a switch that activates other genes involved in regeneration in panther worms, but how this switch operates in humans remains unclear.

Based on the texts, what would the author of Text 2 most likely say about Text 1's characterization of the discovery involving EGR?

A) It is reasonable given that Srivastava and her team have identified how EGR functions in both humans and panther worms.

B) It is overly optimistic given additional observations from Srivastava and her team.

C) It is unexpected given that Srivastava and her team's findings were generally met with enthusiasm.

D) It is unfairly dismissive given the progress that Srivastava and her team have reported.

10

The following text is adapted from William Shakespeare's 1609 poem "Sonnet 27." The poem is addressed to a close friend as if he were physically present.

> Weary with toil, I [hurry] to my bed,
> The dear repose for limbs with travel tired;
> But then begins a journey in my head
> To work my mind, when body's work's expired:
> For then my thoughts—from far where I abide—
> [Begin] a zealous pilgrimage to thee,
> And keep my drooping eyelids open wide,

What is the main idea of the text?

A) The speaker is asleep and dreaming about traveling to see the friend.

B) The speaker is planning an upcoming trip to the friend's house.

C) The speaker is too fatigued to continue a discussion with the friend.

D) The speaker is thinking about the friend instead of immediately falling asleep.

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CONTINUE

The following text is adapted from Lewis Carroll's 1889 satirical novel *Sylvie and Bruno*. A crowd has gathered outside a room belonging to the Warden, an official who reports to the Lord Chancellor.

> One man, who was more excited than the rest, flung his hat high into the air, and shouted (as well as I could make out) "Who roar for the Sub-Warden?" Everybody roared, but whether it was for the Sub-Warden, or not, did not clearly appear: some were shouting "Bread!" and some "Taxes!", but no one seemed to know what it was they really wanted.
>
> All this I saw from the open window of the Warden's breakfast-saloon, looking across the shoulder of the Lord Chancellor.
>
> "What can it all mean?" he kept repeating to himself. "I never heard such shouting before—and at this time of the morning, too! And with such unanimity!"

Based on the text, how does the Lord Chancellor respond to the crowd?

A) He asks about the meaning of the crowd's shouting, even though he claims to know what the crowd wants.

B) He indicates a desire to speak to the crowd, even though the crowd has asked to speak to the Sub-Warden.

C) He expresses sympathy for the crowd's demands, even though the crowd's shouting annoys him.

D) He describes the crowd as being united, even though the crowd clearly appears otherwise.

O Pioneers! is a 1913 novel by Willa Cather. In the novel, Cather portrays Alexandra Bergson as having a deep emotional connection to her natural surroundings: _____

Which quotation from *O Pioneers!* most effectively illustrates the claim?

A) "She had never known before how much the country meant to her. The chirping of the insects down in the long grass had been like the sweetest music. She had felt as if her heart were hiding down there, somewhere, with the quail and the plover and all the little wild things that crooned or buzzed in the sun. Under the long shaggy ridges, she felt the future stirring."

B) "Alexandra talked to the men about their crops and to the women about their poultry. She spent a whole day with one young farmer who had been away at school, and who was experimenting with a new kind of clover hay. She learned a great deal."

C) "Alexandra drove off alone. The rattle of her wagon was lost in the howling of the wind, but her lantern, held firmly between her feet, made a moving point of light along the highway, going deeper and deeper into the dark country."

D) "It was Alexandra who read the papers and followed the markets, and who learned by the mistakes of their neighbors. It was Alexandra who could always tell about what it had cost to fatten each steer, and who could guess the weight of a hog before it went on the scales closer than John Bergson [her father] himself."

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CONTINUE

13

Approximate Rates of Speech and Information Conveyed for Five Languages

Language	Rate of speech (syllables per second)	Rate of information conveyed (bits per second)
Serbian	7.2	39.1
Spanish	7.7	42.0
Vietnamese	5.3	42.5
Thai	4.7	33.8
Hungarian	5.9	34.6

A group of researchers working in Europe, Asia, and Oceania conducted a study to determine how quickly different Eurasian languages are typically spoken (in syllables per second) and how much information they can effectively convey (in bits per second). They found that, although languages vary widely in the speed at which they are spoken, the amount of information languages can effectively convey tends to vary much less. Thus, they claim that two languages with very different spoken rates can nonetheless convey the same amount of information in a given amount of time.

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

A) Among the five languages in the table, Thai and Hungarian have the lowest rates of speech and the lowest rates of information conveyed.

B) Vietnamese conveys information at approximately the same rate as Spanish despite being spoken at a slower rate.

C) Among the five languages in the table, the language that is spoken the fastest is also the language that conveys information the fastest.

D) Serbian and Spanish are spoken at approximately the same rate, but Serbian conveys information faster than Spanish does.

14

Psychologists Dacher Keltner and Jonathan Haidt have argued that experiencing awe—a sensation of reverence and wonder typically brought on by perceiving something grand or powerful—can enable us to feel more connected to others and thereby inspire us to act more altruistically. Keltner, along with Paul K. Piff, Pia Dietze, and colleagues, claims to have found evidence for this effect in a recent study where participants were asked to either gaze up at exceptionally tall trees in a nearby grove (reported to be a universally awe-inspiring experience) or stare at the exterior of a nearby, nondescript building. After one minute, an experimenter deliberately spilled a box of pens nearby.

Which finding from the researchers' study, if true, would most strongly support their claim?

A) Participants who had been looking at the trees helped the experimenter pick up significantly more pens than did participants who had been looking at the building.

B) Participants who helped the experimenter pick up the pens used a greater number of positive words to describe the trees and the building in a postexperiment survey than did participants who did not help the experimenter.

C) Participants who did not help the experimenter pick up the pens were significantly more likely to report having experienced a feeling of awe, regardless of whether they looked at the building or the trees.

D) Participants who had been looking at the building were significantly more likely to notice that the experimenter had dropped the pens than were participants who had been looking at the trees.

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CONTINUE

Employment by Sector in France and the United States, 1800–2012
(% of total employment)

Year	Agriculture in France	Manufacturing in France	Services in France	Agriculture in US	Manufacturing in US	Services in US
1800	64	22	14	68	18	13
1900	43	29	28	41	28	31
1950	32	33	35	14	33	53
2012	3	21	76	2	18	80

Rows in table may not add up to 100 due to rounding.

Over the past two hundred years, the percentage of the population employed in the agricultural sector has declined in both France and the United States, while employment in the service sector (which includes jobs in retail, consulting, real estate, etc.) has risen. However, this transition happened at very different rates in the two countries. This can be seen most clearly by comparing the employment by sector in both countries in _____

Which choice most effectively uses data from the table to complete the statement?

A) 1900 with the employment by sector in 1950.

B) 1800 with the employment by sector in 2012.

C) 1900 with the employment by sector in 2012.

D) 1800 with the employment by sector in 1900.

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CONTINUE

16

Many archaeologists will tell you that categorizing excavated fragments of pottery by style, period, and what objects they belong to relies not only on standard criteria, but also on instinct developed over years of practice. In a recent study, however, researchers trained a deep-learning computer model on thousands of images of pottery fragments and found that it could categorize them as accurately as a team of expert archaeologists. Some archaeologists have expressed concern that they might be replaced by such computer models, but the researchers claim that outcome is highly unlikely.

Which finding, if true, would most directly support the researchers' claim?

A) In the researchers' study, the model was able to categorize the pottery fragments much more quickly than the archaeologists could.

B) In the researchers' study, neither the model nor the archaeologists were able to accurately categorize all the pottery fragments that were presented.

C) A survey of archaeologists showed that categorizing pottery fragments limits the amount of time they can dedicate to other important tasks that only human experts can do.

D) A survey of archaeologists showed that few of them received dedicated training in how to properly categorize pottery fragments.

17

Although military veterans make up a small proportion of the total population of the United States, they occupy a significantly higher proportion of the jobs in the civilian government. One possible explanation for this disproportionate representation is that military service familiarizes people with certain organizational structures that are also reflected in the civilian government bureaucracy, and this familiarity thus _____

Which choice most logically completes the text?

A) makes civilian government jobs especially appealing to military veterans.

B) alters the typical relationship between military service and subsequent career preferences.

C) encourages nonveterans applying for civilian government jobs to consider military service instead.

D) increases the number of civilian government jobs that require some amount of military experience to perform.

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CONTINUE

Birds of many species ingest foods containing carotenoids, pigmented molecules that are converted into feather coloration. Coloration tends to be especially saturated in male birds' feathers, and because carotenoids also confer health benefits, the deeply saturated colors generally serve to communicate what is known as an honest signal of a bird's overall fitness to potential mates. However, ornithologist Allison J. Shultz and others have found that males in several species of the tanager genus *Ramphocelus* use microstructures in their feathers to manipulate light, creating the appearance of deeper saturation without the birds necessarily having to maintain a carotenoid-rich diet. These findings suggest that _____

Which choice most logically completes the text?

A) individual male tanagers can engage in honest signaling without relying on carotenoid consumption.

B) feather microstructures may be less effective than deeply saturated feathers for signaling overall fitness.

C) scientists have yet to determine why tanagers have a preference for mates with colorful appearances.

D) a male tanager's appearance may function as a dishonest signal of the individual's overall fitness.

When writing *The Other Black Girl* (2021), novelist Zakiya Dalila Harris drew on her own experiences working at a publishing office. The award-winning book is Harris's first novel, but her writing _____ honored before. At the age of twelve, she entered a contest to have a story published in *American Girl* magazine—and won.

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

A) were

B) have been

C) has been

D) are

20

The Alvarez theory, developed in 1980 by physicist Luis Walter Alvarez and his geologist son Walter Alvarez, maintained that the secondary effects of an asteroid impact caused many dinosaurs and other animals to die_____it left unexplored the question of whether unrelated volcanic activity might have also contributed to the mass extinctions.

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

A) out but

B) out, but

C) out

D) out,

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CONTINUE

21

In winter, the diets of Japanese macaques, also known as snow monkeys, are influenced more by food availability than by food preference. Although the monkeys prefer to eat vegetation and land-dwelling invertebrates, those food sources may become unavailable because of extensive snow and ice cover,_____the monkeys to hunt for marine animals in any streams that have not frozen over.

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

A) forces

B) to force

C) forcing

D) forced

22

Lucía Michel of the University of Chile observed that alkaline soils contain an insoluble form of iron that blueberry plants cannot absorb, thus inhibiting blueberry growth. If these plants were grown in alkaline soil alongside grasses that aid in iron solubilization,_____Michel was determined to find out.

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

A) could the blueberries thrive.

B) the blueberries could thrive.

C) the blueberries could thrive?

D) could the blueberries thrive?

23

In his 1963 exhibition *Exposition of Music—Electronic Television*, Korean American artist Nam June Paik showed how television images could be manipulated to express an artist's perspective. Today, Paik_____considered the first video artist.

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

A) will be

B) had been

C) was

D) is

24

The first computerized spreadsheet, Dan Bricklin's *VisiCalc*, improved financial recordkeeping not only by providing users with an easy means of adjusting data in spreadsheets but also by automatically updating all calculations that were dependent on these_____to VisiCalc's release, changing a paper spreadsheet often required redoing the entire sheet by hand, a process that could take days.

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

A) adjustments prior

B) adjustments, prior

C) adjustments. Prior

D) adjustments and prior

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CONTINUE

25

In order to prevent nonnative fish species from moving freely between the Mediterranean and Red Seas, marine biologist Bella Galil has proposed that a saline lock system be installed along the Suez Canal in Egypt's Great Bitter Lakes. The lock would increase the salinity of the lakes and_____a natural barrier of water most marine creatures would be unable to cross.

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

A) creates

B) create

C) creating

D) created

26

Despite being cheap, versatile, and easy to produce, _____they are made from nonrenewable petroleum, and most do not biodegrade in landfills.

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

A) there are two problems associated with commercial plastics:

B) two problems are associated with commercial plastics:

C) commercial plastics' two associated problems are that

D) commercial plastics have two associated problems:

27

Stomata, tiny pore structures in a leaf that absorb gases needed for plant growth, open when guard cells surrounding each pore swell with water. In a pivotal 2007 article, plant cell_____showed that lipid molecules called phosphatidylinositol phosphates are responsible for signaling guard cells to open stomata.

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

A) biologist, Yuree Lee

B) biologist Yuree Lee,

C) biologist Yuree Lee

D) biologist, Yuree Lee,

28

Small, flat structures called spatulae are found at the tips of the hairs on a spider's leg. These spatulae temporarily bond with the atoms of whatever they touch._____spiders are able to cling to and climb almost any surface.

Which choice completes the text with the most logical transition?

A) For instance,

B) However,

C) Similarly,

D) As a result,

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CONTINUE

29

In November 1934, Amrita Sher-Gil was living in what must have seemed like the ideal city for a young artist: Paris. She was studying firsthand the color-saturated style of France's modernist masters and beginning to make a name for herself as a painter._____Sher-Gil longed to return to her childhood home of India; only there, she believed, could her art truly flourish.

Which choice completes the text with the most logical transition?

A) Still,

B) Therefore,

C) Indeed,

D) Furthermore,

30

Before California's 1911 election to approve a proposition granting women the right to vote, activists across the state sold tea to promote the cause of suffrage. In San Francisco, the Woman's Suffrage Party sold Equality Tea at local fairs._____in Los Angeles, activist Nancy Tuttle Craig, who ran one of California's largest grocery store firms, distributed Votes for Women Tea.

Which choice completes the text with the most logical transition?

A) For example,

B) To conclude,

C) Similarly,

D) In other words,

31

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

- The Seikan Tunnel is a rail tunnel in Japan.
- It connects the island of Honshu to the island of Hokkaido.
- It is roughly 33 miles long.
- The Channel Tunnel is a rail tunnel in Europe.
- It connects Folkestone, England, to Coquelles, France.
- It is about 31 miles long.

The student wants to compare the lengths of the two rail tunnels. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) Some of the world's rail tunnels, including one tunnel that extends from Folkestone, England, to Coquelles, France, are longer than 30 miles.

B) The Seikan Tunnel is roughly 33 miles long, while the slightly shorter Channel Tunnel is about 31 miles long.

C) The Seikan Tunnel, which is roughly 33 miles long, connects the Japanese islands of Honshu and Hokkaido.

D) Both the Seikan Tunnel, which is located in Japan, and the Channel Tunnel, which is located in Europe, are examples of rail tunnels.

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CONTINUE

32

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

- Jon Ching is a Los Angeles-based painter.
- He uses the term "flauna" to describe the plant-animal hybrids that he depicts in his surreal paintings.
- "Flauna" is a combination of the words "flora" and "fauna."
- His painting *Nectar* depicts a parrot with leaves for feathers.
- His painting *Primaveral* depicts a snow leopard whose fur sprouts flowers.

The student wants to provide an explanation and example of "flauna." Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) The term "flauna," used by Los Angeles-based painter Jon Ching, is a combination of the words "flora" and "fauna."

B) Jon Ching uses the term "flauna," a combination of the words "flora" and "fauna," to describe the subjects of his surreal paintings: plant-animal hybrids such as a parrot with leaves for feathers.

C) Jon Ching, who created *Nectar*, refers to the subjects of his paintings as "flauna."

D) The subjects of *Nectar* and *Primaveral* are types of "flauna," a term that the paintings' creator, Jon Ching, uses when describing his surreal artworks.

33

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

- In the midst of the US Civil War, Susie Taylor escaped slavery and fled to Union-army-occupied St. Simons Island off the Georgia coast.
- She began working for an all-Black army regiment as a nurse and teacher.
- In 1902, she published a book about the time she spent with the regiment.
- Her book was the only Civil War memoir to be published by a Black woman.
- It is still available to readers in print and online.

The student wants to emphasize the uniqueness of Taylor's accomplishment. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) Taylor fled to St. Simons Island, which was then occupied by the Union army, for whom she began working.

B) After escaping slavery, Taylor began working for an all-Black army regiment as a nurse and teacher.

C) The book Taylor wrote about the time she spent with the regiment is still available to readers in print and online.

D) Taylor was the only Black woman to publish a Civil War memoir.

STOP

If you finish before time is called, you may check your work on this module only.
Do not turn to any other module in the test.

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Test begins on the next page.

SAT Practice 7

Reading and Writing

33 QUESTIONS

DIRECTIONS

The questions in this section address a number of important reading and writing skills. Each question includes one or more passages, which may include a table or graph. Read each passage and question carefully, and then choose the best answer to the question based on the passage(s).

All questions in this section are multiple-choice with four answer choices. Each question has a single best answer.

1

As Mexico's first president from an Indigenous community, Benito Juarez became one of the most _____ figures in his country's history: among the many significant accomplishments of his long tenure in office (1858–1872), Juarez consolidated the authority of the national government and advanced the rights of Indigenous peoples.

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

A) unpredictable

B) important

C) secretive

D) ordinary

2

Due to their often strange images, highly experimental syntax, and opaque subject matter, many of John Ashbery's poems can be quite difficult to _____ and thus are the object of heated debate among scholars.

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

A) delegate

B) compose

C) interpret

D) renounce

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CONTINUE

3

The Cambrian explosion gets its name from the sudden appearance and rapid diversification of animal remains in the fossil record about 541 million years ago, during the Cambrian period. Some scientists argue that this _____ change in the fossil record might be because of a shift in many organisms to body types that were more likely to be preserved.

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

A) catastrophic
B) elusive
C) abrupt
D) imminent

4

During a 2014 archaeological dig in Spain, Vicente Lull and his team uncovered the skeleton of a woman from El Algar, an Early Bronze Age society, buried with valuable objects signaling a high position of power. This finding may persuade researchers who have argued that Bronze Age societies were ruled by men to _____ that women may have also held leadership roles.

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

A) waive
B) concede
C) refute
D) require

5

Within baleen whale species, some individuals develop an accessory spleen—a seemingly functionless formation of splenetic tissue outside the normal spleen. Given the formation's greater prevalence among whales known to make deeper dives, some researchers hypothesize that its role isn't _____ ; rather, the accessory spleen may actively support diving mechanisms.

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

A) replicable
B) predetermined
C) operative
D) latent

6

According to a US tax policy expert, state taxes are _____ other factors when considering an interstate move. Even significant differences in state taxation have almost no effect on most people's decisions, while differences in employment opportunities, housing availability, and climate are strong influences.

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

A) consistent with
B) representative of
C) overshadowed by
D) irrelevant to

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CONTINUE

7

The author's claim about the relationship between Neanderthals and *Homo sapiens* is_____, as it fails to account for several recent archaeological discoveries. To be convincing, his argument would need to address recent finds of additional hominid fossils, such as the latest Denisovan specimens and *Homo longi*.

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

A) disorienting

B) tenuous

C) nuanced

D) unoriginal

8

The following text is from Georgia Douglas Johnson's 1922 poem "Benediction."

> Go forth, my son,
> Winged by my heart's desire!
> Great reaches, yet unknown,
> Await
> For your possession.
> I may not, if I would,
> Retrace the way with you,
> My pilgrimage is through,
> But life is calling you!

Which choice best states the main purpose of the text?

A) To express hope that a child will have the same accomplishments as his parent did

B) To suggest that raising a child involves many struggles

C) To warn a child that he will face many challenges throughout his life

D) To encourage a child to embrace the experiences life will offer

9

The following text is adapted from *Indian Boyhood*, a 1902 memoir by Ohiyesa (Charles A. Eastman), a Santee Dakota writer. In the text, Ohiyesa recalls how the women in his tribe harvested maple syrup during his childhood.

> Now the women began to test the trees—moving leisurely among them, axe in hand, and striking a single quick blow, to see if the sap would appear. <u>The trees, like people, have their individual characters; some were ready to yield up their life-blood, while others were more reluctant.</u> Now one of the birchen basins was set under each tree, and a hardwood chip driven deep into the cut which the axe had made. From the corners of this chip—at first drop by drop, then more freely—the sap trickled into the little dishes.

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

A) It portrays the range of personality traits displayed by the women as they work.

B) It foregrounds the beneficial relationship between humans and maple trees.

C) It demonstrates how human behavior can be influenced by the natural environment.

D) It elaborates on an aspect of the maple trees that the women evaluate.

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CONTINUE

10

Text 1

Ecologists have long wondered how thousands of microscopic phytoplankton species can live together near ocean surfaces competing for the same resources. According to conventional wisdom, one species should emerge after outcompeting the rest. So why do so many species remain? Ecologists' many efforts to explain this phenomenon still haven't uncovered a satisfactory explanation.

Text 2

Ecologist Michael Behrenfeld and colleagues have connected phytoplankton's diversity to their microscopic size. Because these organisms are so tiny, they are spaced relatively far apart from each other in ocean water and, moreover, experience that water as a relatively dense substance. This in turn makes it hard for them to move around and interact with one another. Therefore, says Behrenfeld's team, direct competition among phytoplankton probably happens much less than previously thought.

Based on the texts, how would Behrenfeld and colleagues (Text 2) most likely respond to the "conventional wisdom" discussed in Text 1?

A) By arguing that it is based on a misconception about phytoplankton species competing with one another

B) By asserting that it fails to recognize that routine replenishment of ocean nutrients prevents competition between phytoplankton species

C) By suggesting that their own findings help clarify how phytoplankton species are able to compete with larger organisms

D) By recommending that more ecologists focus their research on how competition among phytoplankton species is increased with water density

11

In 2014, Amelia Quon and her team at NASA set out to build a helicopter capable of flying on Mars. Because Mars's atmosphere is only one percent as dense as Earth's, the air of Mars would not provide enough resistance to the rotating blades of a standard helicopter for the aircraft to stay aloft. For five years, Quon's team tested designs in a lab that mimicked Mars's atmospheric conditions. The craft the team ultimately designed can fly on Mars because its blades are longer and rotate faster than those of a helicopter of the same size built for Earth.

According to the text, why would a helicopter built for Earth be unable to fly on Mars?

A) Because Mars and Earth have different atmospheric conditions

B) Because the blades of helicopters built for Earth are too large to work on Mars

C) Because the gravity of Mars is much weaker than the gravity of Earth

D) Because helicopters built for Earth are too small to handle the conditions on Mars

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CONTINUE

12

In West Africa, jalis have traditionally been keepers of information about family histories and records of important events. They have often served as teachers and advisers, too. New technologies may have changed some aspects of the role today, but jalis continue to be valued for knowing and protecting their peoples' stories.

Which choice best states the main idea of the text?

A) Even though there have been some changes in their role, jalis continue to preserve their communities' histories.

B) Although jalis have many roles, many of them like teaching best.

C) Jalis have been entertaining the people within their communities for centuries.

D) Technology can now do some of the things jalis used to be responsible for.

13

In 1934 physicist Eugene Wigner posited the existence of a crystal consisting entirely of electrons in a honeycomb-like structure. The so-called Wigner crystal remained largely conjecture, however, until Feng Wang and colleagues announced in 2021 that they had captured an image of one. The researchers trapped electrons between two semiconductors and then cooled the apparatus, causing the electrons to settle into a crystalline structure. By inserting an ultrathin sheet of graphene above the crystal, the researchers obtained an impression—the first visual confirmation of the Wigner crystal.

Which choice best states the main idea of the text?

A) Researchers have obtained the most definitive evidence to date of the existence of the Wigner crystal.

B) Researchers have identified an innovative new method for working with unusual crystalline structures.

C) Graphene is the most important of the components required to capture an image of a Wigner crystal.

D) It's difficult to acquire an image of a Wigner crystal because of the crystal's honeycomb structure.

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CONTINUE

14

Considering a large sample of companies, economics experts Maria Guadalupe, Julie Wulf, and Raghuram Rajan assessed the number of managers and leaders from different departments who reported directly to a chief executive officer (CEO). According to the researchers, the findings suggest that across the years analyzed, there was a growing interest among CEOs in connecting with more departments in their companies.

Which choice best describes data from the graph that support the researchers' conclusion?

A) The average numbers of managers and department leaders reporting directly to their CEO didn't fluctuate from the 1991–1995 period to the 2001–2008 period.

B) The average number of managers reporting directly to their CEO was highest in the 1996–2001 period.

C) The average number of department leaders reporting directly to their CEO was greater than the average number of managers reporting directly to their CEO in each of the three periods studied.

D) The average number of department leaders reporting directly to their CEO rose over the three periods studied.

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CONTINUE

15

When digging for clams, their primary food, sea otters damage the roots of eelgrass plants growing on the seafloor. Near Vancouver Island in Canada, the otter population is large and well established, yet the eelgrass meadows are healthier than those found elsewhere off Canada's coast. To explain this, conservation scientist Erin Foster and colleagues compared the Vancouver Island meadows to meadows where otters are absent or were reintroduced only recently. Finding that the Vancouver Island meadows have a more diverse gene pool than the others do, Foster hypothesized that damage to eelgrass roots increases the plant's rate of sexual reproduction; this, in turn, boosts genetic diversity, which benefits the meadow's health overall.

Which finding, if true, would most directly undermine Foster's hypothesis?

A) At some sites in the study, eelgrass meadows are found near otter populations that are small and have only recently been reintroduced.

B) At several sites not included in the study, there are large, well-established sea otter populations but no eelgrass meadows.

C) At several sites not included in the study, eelgrass meadows' health correlates negatively with the length of residence and size of otter populations.

D) At some sites in the study, the health of plants unrelated to eelgrass correlates negatively with the length of residence and size of otter populations.

16

Scholars have noted that F. Scott Fitzgerald's writings were likely influenced in part by his marriage to Zelda Fitzgerald, but many don't recognize Zelda as a writer in her own right. Indeed, Zelda authored several works herself, such as the novel *Save Me the Waltz* and numerous short stories. Thus, those who primarily view Zelda as an inspiration for F. Scott's writings _____

Which choice most logically completes the text?

A) overlook the many other factors that motivated F. Scott to write.

B) risk misrepresenting the full range of Zelda's contributions to literature.

C) may draw inaccurate conclusions about how F. Scott and Zelda viewed each other's works.

D) tend to read the works of F. Scott and Zelda in an overly autobiographical light.

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CONTINUE

17

Among social animals that care for their young, such as chickens, macaque monkeys, and humans, newborns appear to show an innate attraction to faces and face-like stimuli. Elisabetta Versace and her colleagues used an image of three black dots arranged in the shape of eyes and a nose or mouth to test whether this trait also occurs in *Testudo* tortoises, which live alone and do not engage in parental care. They found that tortoise hatchlings showed a significant preference for the image, suggesting that _____

Which choice most logically completes the text?

A) face-like stimuli are likely perceived as harmless by newborns of social species that practice parental care but as threatening by newborns of solitary species without parental care.

B) researchers should not assume that an innate attraction to face-like stimuli is necessarily an adaptation related to social interaction or parental care.

C) researchers can assume that the attraction to face-like stimuli that is seen in social species that practice parental care is learned rather than innate.

D) newly hatched *Testudo* tortoises show a stronger preference for face-like stimuli than adult *Testudo* tortoises do.

18

Compiled in the late 1500s largely through the efforts of Indigenous scribes, *Cantares Mexicanos* is the most important collection of poetry in Classical Nahuatl, the principal language of the Aztec Empire. The poems portray Aztec society before the occupation of the empire by the army of Spain, and marginal notes in *Cantares Mexicanos* indicate that much of the collection's content predates the initial invasion. Nonetheless, some of the poems contain inarguable references to beliefs and customs common in Spain during this era. Thus, some scholars have concluded that _____

Which choice most logically completes the text?

A) while its content largely predates the invasion, *Cantares Mexicanos* also contains additions made after the invasion.

B) although those who compiled *Cantares Mexicanos* were fluent in Nahuatl, they had limited knowledge of the Spanish language.

C) before the invasion by Spain, the poets of the Aztec Empire borrowed from the literary traditions of other societies.

D) the references to beliefs and customs in Spain should be attributed to a coincidental resemblance between the societies of Spain and the Aztec Empire.

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CONTINUE

19

In a study of the cognitive abilities of white-faced capuchin monkeys (*Cebus imitator*), researchers neglected to control for the physical difficulty of the tasks they used to evaluate the monkeys. The cognitive abilities of monkeys given problems requiring little dexterity, such as sliding a panel to retrieve food, were judged by the same criteria as were those of monkeys given physically demanding problems, such as unscrewing a bottle and inserting a straw. The results of the study, therefore, _____

Which choice most logically completes the text?

A) could suggest that there are differences in cognitive ability among the monkeys even though such differences may not actually exist.

B) are useful for identifying tasks that the monkeys lack the cognitive capacity to perform but not for identifying tasks that the monkeys can perform.

C) should not be taken as indicative of the cognitive abilities of any monkey species other than *C. imitator*.

D) reveal more about the monkeys' cognitive abilities when solving artificial problems than when solving problems encountered in the wild.

20

To survive when water is scarce, embryos inside African turquoise killifish eggs_____a dormant state known as diapause. In this state, embryonic development is paused for as long as two years—longer than the life span of an adult killifish.

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

A) enter

B) to enter

C) having entered

D) entering

21

Formed in 1967 to foster political and economic stability within the Asia-Pacific region, the Association of Southeast Asian Nations was originally made up of five members: Thailand, the Philippines, Singapore, Malaysia, and Indonesia. By the end of the 1990s, the organization _____ its initial membership.

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

A) has doubled

B) had doubled

C) doubles

D) will double

22

The intense pressure found in the deep ocean can affect the structure of proteins in fish's cells, distorting the proteins' shape. The chemical trimethylamine N-oxide (TMAO) counters this effect, ensuring that proteins retain their original _____ is found in high concentrations in the cells of the deepest-dwelling fish.

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

A) configurations. TMAO

B) configurations TMAO

C) configurations, TMAO

D) configurations and TMAO

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CONTINUE

23

Food and the sensation of taste are central to Monique Truong's novels. In *The Book of Salt*, for example, the exiled character of Bình connects to his native Saigon through the food he prepares, while in *Bitter in the Mouth*, the character of Linda_____a form of synesthesia whereby the words she hears evoke tastes.

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

A) experienced

B) had experienced

C) experiences

D) will be experiencing

24

Inventor John Friedman created a prototype of the first flexible straw by inserting a screw into a paper straw and, using dental floss, binding the straw tightly around the _____ When the floss and screw were removed, the resulting corrugations in the paper allowed the straw to bend easily over the edge of a glass.

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

A) screw's thread's.

B) screws' threads.

C) screw's threads.

D) screws threads'.

25

In her analysis of Edith Wharton's *The House of Mirth* (1905), scholar Candace Waid observes that the novel depicts the upper classes of New York society as "consumed by the appetite of a soulless _____ an apt assessment given that *The House of Mirth* is set during the Gilded Age, a period marked by rapid industrialization, economic greed, and widening wealth disparities.

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

A) materialism"; and

B) materialism" and

C) materialism,"

D) materialism"

26

To humans, it does not appear that the golden orb-weaver spider uses camouflage to capture its _____ the brightly colored arachnid seems to wait conspicuously in the center of its large circular web for insects to approach. Researcher Po Peng of the University of Melbourne has explained that the spider's distinctive coloration may in fact be part of its appeal.

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

A) prey, rather,

B) prey rather,

C) prey, rather;

D) prey; rather,

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CONTINUE

27

In Death Valley National Park's Racetrack Playa, a flat, dry lakebed, are 162 rocks—some weighing less than a pound but others almost 700 pounds—that move periodically from place to place, seemingly of their own volition. Racetrack-like trails in the _____ mysterious migration.

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

A) playas sediment mark the rock's

B) playa's sediment mark the rocks

C) playa's sediment mark the rocks'

D) playas' sediment mark the rocks'

28

In crafting her fantasy fiction, Nigerian-born British author Helen Oyeyemi has drawn inspiration from the classic nineteenth-century fairy tales of the Brothers Grimm. Her 2014 novel *Boy, Snow, Bird*, for instance, is a complex retelling of the story of Snow White, while her 2019 novel_____offers a delicious twist on the classic tale of Hansel and Gretel.

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

A) *Gingerbread*—

B) *Gingerbread*,

C) *Gingerbread*

D) *Gingerbread*:

29

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

- NASA uses rovers, large remote vehicles with wheels, to explore the surface of Mars.
- NASA's rovers can't explore regions inaccessible to wheeled vehicles.
- Rovers are also heavy, making them difficult to land on the planet's surface.
- Microprobes, robotic probes that weigh as little as 50 milligrams, could be deployed virtually anywhere on the surface of Mars.
- Microprobes have been proposed as an alternative to rovers.

The student wants to explain an advantage of microprobes. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) Despite being heavy, NASA's rovers can land successfully on the surface of Mars.

B) Microprobes, which weigh as little as 50 milligrams, could explore areas of Mars that are inaccessible to NASA's heavy, wheeled rovers.

C) NASA currently uses its rovers on Mars, but microprobes have been proposed as an alternative.

D) Though they are different sizes, both microprobes and rovers can be used to explore the surface of Mars.

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CONTINUE

30

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

- Abdulrazak Gurnah was awarded the 2021 Nobel Prize in Literature.
- Gurnah was born in Zanzibar in East Africa and currently lives in the United Kingdom.
- Many readers have singled out Gurnah's 1994 book *Paradise* for praise.
- *Paradise* is a historical novel about events that occurred in colonial East Africa.

The student wants to introduce *Paradise* to an audience unfamiliar with the novel and its author. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) Abdulrazak Gurnah, who wrote *Paradise* and later was awarded the Nobel Prize in Literature, was born in Zanzibar in East Africa and currently lives in the United Kingdom.

B) Many readers have singled out Abdulrazak Gurnah's 1994 book *Paradise,* a historical novel about colonial East Africa, for praise.

C) A much-praised historical novel about colonial East Africa, *Paradise* (1994) was written by Abdulrazak Gurnah, winner of the 2021 Nobel Prize in Literature.

D) *Paradise* is a historical novel about events that occurred in colonial East Africa, Abdulrazak Gurnah's homeland.

31

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

- Ulaanbaatar is the capital of Mongolia.
- The city's population is 907,802.
- Ulaanbaatar contains 31.98 percent of Mongolia's population.
- Hanoi is the capital of Vietnam.
- The city's population is 7,781,631.
- Hanoi contains 8.14 percent of Vietnam's population.

Which choice most effectively uses information from the given sentences to emphasize the relative sizes of the two capitals' populations?

A) Mongolia's capital is Ulaanbaatar, which has 907,802 people, and Vietnam's capital is Hanoi, which has 7,781,631 people.

B) The populations of the capitals of Mongolia and Vietnam are 907,802 (Ulaanbaatar) and 7,781,631 (Hanoi), respectively.

C) Even though Hanoi (population 7,781,631) is larger than Ulaanbaatar (population 907,802), Ulaanbaatar accounts for more of its country's population.

D) Comparing Vietnam and Mongolia, 7,781,631 is 8.14 percent of Vietnam's population, and 907,802 is 31.98 percent of Mongolia's.

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CONTINUE

32

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

- One of history's greatest libraries was the House of Wisdom in Baghdad, Iraq.
- It was founded in the eighth century with the goal of preserving all the world's knowledge.
- Scholars at the House of Wisdom collected ancient and contemporary texts from Greece, India, and elsewhere and translated them into Arabic.
- Writings included those of the Greek philosopher Aristotle and the Indian mathematician Aryabhata.
- The House of Wisdom used Chinese papermaking technology to create paper versions to be studied and shared.

The student wants to explain how the House of Wisdom preserved the world's knowledge. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) The House of Wisdom was known for bringing together knowledge from around the world, including from Greece, India, and China.

B) Founded in Iraq in the eighth century, the House of Wisdom employed many scholars as translators.

C) Writings from the Greek philosopher Aristotle and the Indian mathematician Aryabhata were preserved at the House of Wisdom.

D) The House of Wisdom collected writings from different countries and created paper versions in Arabic to be studied and shared.

33

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

- British musicians John Lennon and Paul McCartney shared writing credit for numerous Beatles songs.
- Many Lennon-McCartney songs were actually written by either Lennon or McCartney, not by both.
- The exact authorship of specific parts of many Beatles songs, such as the verse for "In My Life," is disputed.
- Mark Glickman, Jason Brown, and Ryan Song used statistical methods to analyze the musical content of Beatles songs.
- They concluded that there is 18.9% probability that McCartney wrote the verse for "In My Life," stating that the verse is "consistent with Lennon's songwriting style."

The student wants to make a generalization about the kind of study conducted by Glickman, Brown, and Song. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) Based on statistical analysis, Glickman, Brown, and Song claim that John Lennon wrote the verse of "In My Life."

B) There is only an 18.9% probability that Paul McCartney wrote the verse for "In My Life"; John Lennon is the more likely author.

C) It is likely that John Lennon, not Paul McCartney, wrote the verse for "In My Life."

D) Researchers have used statistical methods to address questions of authorship within the field of music.

STOP

If you finish before time is called, you may check your work on this module only. Do not turn to any other module in the test.

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No Test Material On This Page

SAT Practice 8

Reading and Writing

33 QUESTIONS

DIRECTIONS

The questions in this section address a number of important reading and writing skills. Each question includes one or more passages, which may include a table or graph. Read each passage and question carefully, and then choose the best answer to the question based on the passage(s).

All questions in this section are multiple-choice with four answer choices. Each question has a single best answer.

1

The Mule Bone, a 1930 play written by Zora Neale Hurston and Langston Hughes, is perhaps the best-known of the few examples of_____in literature. Most writers prefer working alone, and given that working together cost Hurston and Hughes their friendship, it is not hard to see why.

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

A) characterization

B) interpretation

C) collaboration

D) commercialization

2

The process of mechanically recycling plastics is often considered _____ because of the environmental impact and the loss of material quality that often occurs. But chemist Takunda Chazovachii has helped develop a cleaner process of chemical recycling that converts superabsorbent polymers from diapers into a desirable reusable adhesive.

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

A) resilient

B) inadequate

C) dynamic

D) satisfactory

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CONTINUE

3

Interruptions in the supply chain for microchips used in personal electronics have challenged an economist's assertion that retailers can expect robust growth in sales of those devices in the coming months. The delays are unlikely to _____ her projection entirely but will almost certainly extend its time frame.

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

A) dispute

B) withdraw

C) underscore

D) invalidate

4

For her 2021 art installation *Anthem*, Wu Tsang joined forces with singer and composer Beverly Glenn-Copeland to produce a piece that critics found truly_____: they praised Tsang for creatively transforming a museum rotunda into a dynamic exhibit by projecting filmed images of Glenn-Copeland onto a massive 84-foot curtain and filling the space with the sounds of his and other voices singing.

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

A) restrained

B) inventive

C) inexplicable

D) mystifying

5

Some scientists have suggested that mammals in the Mesozoic era were not a very _____ group, but paleontologist Zhe-Xi Luo's research suggests that early mammals living in the shadow of dinosaurs weren't all ground-dwelling insectivores. Fossils of various plant-eating mammals have been found in China, including species like *Vilevolodon diplomylos*, which Luo says could glide like a flying squirrel.

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

A) predatory

B) obscure

C) diverse

D) localized

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CONTINUE

6

The following text is adapted from Gwendolyn Bennett's 1926 poem "Street Lamps in Early Spring."

> Night wears a garment
> All velvet soft, all violet blue...
> And over her face she draws a veil
> As shimmering fine as floating dew...
> And here and there
> In the black of her hair
> The subtle hands of Night
> Move slowly with their gem-starred light.

Which choice best describes the overall structure of the text?

A) It presents alternating descriptions of night in a rural area and in a city.

B) It sketches an image of nightfall, then an image of sunrise.

C) It makes an extended comparison of night to a human being.

D) It portrays how night changes from one season of the year to the next.

7

According to historian Vicki L. Ruiz, Mexican American women made crucial contributions to the labor movement during World War II. At the time, food processing companies entered into contracts to supply United States armed forces with canned goods. Increased production quotas conferred greater bargaining power on the companies' employees, many of whom were Mexican American women: <u>employees insisted on more favorable benefits, and employers, who were anxious to fulfill the contracts, complied.</u> Thus, labor activism became a platform for Mexican American women to assert their agency.

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

A) It elaborates on a claim about labor relations in a particular industry made earlier in the text.

B) It offers an example of a trend in the World War II–era economy discussed earlier in the text.

C) It notes a possible exception to the historical narrative of labor activism sketched earlier in the text.

D) It provides further details about the identities of the workers discussed earlier in the text.

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8

The following text is adapted from Zora Neale Hurston's 1921 short story "John Redding Goes to Sea." John is a child who lives in a town in the woods.

> Perhaps ten-year-old John was puzzling to the folk there in the Florida woods for he was an imaginative child and fond of day-dreams. The St. John River flowed a scarce three hundred feet from his back door. On its banks at this point grow numerous palms, luxuriant magnolias and bay trees. On the bosom of the stream float millions of delicately colored hyacinths. [John Redding] loved to wander down to the water's edge, and, casting in dry twigs, watch them sail away down stream to Jacksonville, the sea, the wide world and [he] wanted to follow them.

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

A) It provides an extended description of a location that John likes to visit.

B) It reveals that some residents of John's town are confused by his behavior.

C) It illustrates the uniqueness of John's imagination compared to the imaginations of other children.

D) It suggests that John longs to experience a larger life outside the Florida woods.

9

The following text is adapted from Oscar Wilde's 1891 novel *The Picture of Dorian Gray*. Dorian Gray is taking his first look at a portrait that Hallward has painted of him.

> Dorian passed listlessly in front of his picture and turned towards it. When he saw it he drew back, and his cheeks flushed for a moment with pleasure. A look of joy came into his eyes, as if he had recognized himself for the first time. He stood there motionless and in wonder, dimly conscious that Hallward was speaking to him, but not catching the meaning of his words. The sense of his own beauty came on him like a revelation. He had never felt it before.

According to the text, what is true about Dorian?

A) He wants to know Hallward's opinion of the portrait.

B) He is delighted by what he sees in the portrait.

C) He prefers portraits to other types of paintings.

D) He is uncertain of Hallward's talent as an artist.

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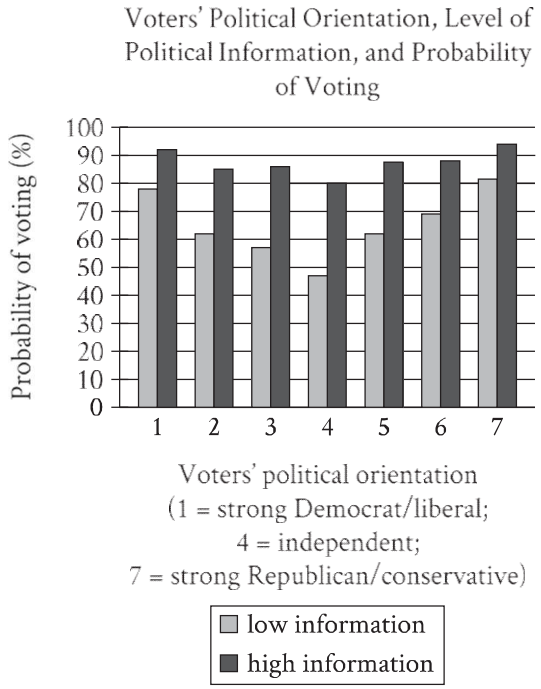
10



Economists Kerwin Kofi Charles and Melvin Stephens Jr. investigated a variety of factors that influence voter turnout in the United States. Using survey data that revealed whether respondents voted in national elections and how knowledgeable respondents are about politics, Charles and Stephens claim that the likelihood of voting is driven in part by potential voters' confidence in their assessments of candidates—essentially, the more informed voters are about politics, the more confident they are at evaluating whether candidates share their views, and thus the more likely they are to vote.

Which choice best describes data in the graph that support Charles and Stephens's claim?

A) At each point on the political orientation scale, high-information voters were more likely than low-information voters to vote.

B) Only low-information voters who identify as independents had a voting probability below 50%.

C) The closer that low-information voters are to the ends of the political orientation scale, the more likely they were to vote.

D) High-information voters were more likely to identify as strong Democrats or strong Republicans than low-information voters were.

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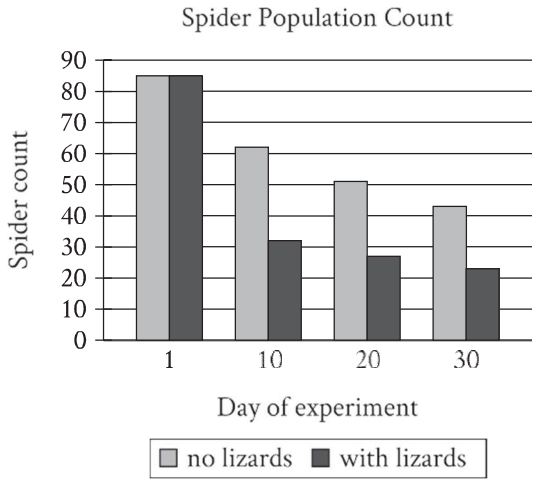
CONTINUE

11



To investigate the effect of lizard predation on spider populations, a student in a biology class placed spiders in two enclosures, one with lizards and one without, and tracked the number of spiders in the enclosures for 30 days. The student concluded that the reduction in the spider population count in the enclosure with lizards by day 30 was entirely attributable to the presence of the lizards.

Which choice best describes data from the graph that weaken the student's conclusion?

A) The spider population count was the same in both enclosures on day 1.

B) The spider population count also substantially declined by day 30 in the enclosure without lizards.

C) The largest decline in spider population count in the enclosure with lizards occurred from day 1 to day 10.

D) The spider population count on day 30 was lower in the enclosure with lizards than in the enclosure without lizards.

12

Archaeologist Petra Vaiglova, anthropologist Xinyi Liu, and their colleagues investigated the domestication of farm animals in China during the Bronze Age (approximately 2000 to 1000 BCE). By analyzing the chemical composition of the bones of sheep, goats, and cattle from this era, the team determined that wild plants made up the bulk of sheep's and goats' diets, while the cattle's diet consisted largely of millet, a crop cultivated by humans. The team concluded that cattle were likely raised closer to human settlements, whereas sheep and goats were allowed to roam farther away.

Which finding, if true, would most strongly support the team's conclusion?

A) Analysis of the animal bones showed that the cattle's diet also consisted of wheat, which humans widely cultivated in China during the Bronze Age.

B) Further investigation of sheep and goat bones revealed that their diets consisted of small portions of millet as well.

C) Cattle's diets generally require larger amounts of food and a greater variety of nutrients than do sheep's and goats' diets.

D) The diets of sheep, goats, and cattle were found to vary based on what the farmers in each Bronze Age settlement could grow.

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CONTINUE

13

Mosasaurs were large marine reptiles that lived in the Late Cretaceous period, approximately 100 million to 66 million years ago. Celina Suarez, Alberto Pérez-Huerta, and T. Lynn Harrell Jr. examined oxygen-18 isotopes in mosasaur tooth enamel in order to calculate likely mosasaur body temperatures and determined that mosasaurs were endothermic—that is, they used internal metabolic processes to maintain a stable body temperature in a variety of ambient temperatures. Suarez, Pérez-Huerta, and Harrell claim that endothermy would have enabled mosasaurs to include relatively cold polar waters in their range.

Which finding, if true, would most directly support Suarez, Pérez-Huerta, and Harrell's claim?

A) Mosasaurs' likely body temperatures are easier to determine from tooth enamel oxygen-18 isotope data than the body temperatures of nonendothermic Late Cretaceous marine reptiles are.

B) Fossils of both mosasaurs and nonendothermic marine reptiles have been found in roughly equal numbers in regions known to be near the poles during the Late Cretaceous, though in lower concentrations than elsewhere.

C) Several mosasaur fossils have been found in regions known to be near the poles during the Late Cretaceous, while relatively few fossils of nonendothermic marine reptiles have been found in those locations.

D) During the Late Cretaceous, seawater temperatures were likely higher throughout mosasaurs' range, including near the poles, than seawater temperatures at those same latitudes are today.

14

Researchers hypothesized that a decline in the population of dusky sharks near the mid-Atlantic coast of North America led to a decline in the population of eastern oysters in the region. Dusky sharks do not typically consume eastern oysters but do consume cownose rays, which are the main predators of the oysters.

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

A) Declines in the regional abundance of dusky sharks' prey other than cownose rays are associated with regional declines in dusky shark abundance.

B) Eastern oyster abundance tends to be greater in areas with both dusky sharks and cownose rays than in areas with only dusky sharks.

C) Consumption of eastern oysters by cownose rays in the region substantially increased before the regional decline in dusky shark abundance began.

D) Cownose rays have increased in regional abundance as dusky sharks have decreased in regional abundance.

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CONTINUE

15

Political scientists who favor the traditional view of voter behavior claim that voting in an election does not change a voter's attitude toward the candidates in that election. Focusing on each US presidential election from 1976 to 1996, Ebonya Washington and Sendhil Mullainathan tested this claim by distinguishing between subjects who had just become old enough to vote (around half of whom actually voted) and otherwise similar subjects who were slightly too young to vote (and thus none of whom voted). Washington and Mullainathan compared the attitudes of the groups of subjects toward the winning candidate two years after each election.

Which finding from Washington and Mullainathan's study, if true, would most directly weaken the claim made by people who favor the traditional view of voter behavior?

A) Subjects' attitudes toward the winning candidate two years after a given election were strongly predicted by subjects' general political orientation, regardless of whether subjects were old enough to vote at the time of the election.

B) Subjects who were not old enough to vote in a given election held significantly more positive attitudes towards the winning candidate two years later than they held at the time of the election.

C) Subjects who voted in a given election held significantly more polarized attitudes toward the winning candidate two years later than did subjects who were not old enough to vote in that election.

D) Two years after a given election, subjects who voted and subjects who were not old enough to vote were significantly more likely to express negative attitudes than positive attitudes toward the winning candidate in that election.

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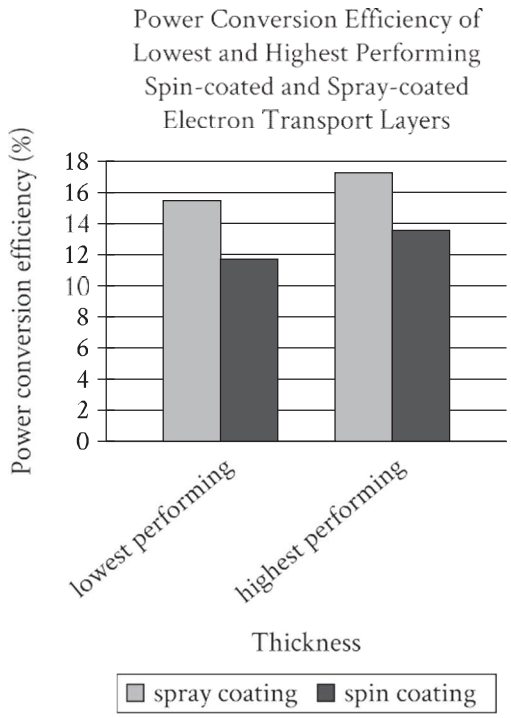
CONTINUE

16



Perovskite solar cells convert light into electricity more efficiently than earlier kinds of solar cells, and manufacturing advances have recently made them commercially attractive. One limitation of the cells, however, has to do with their electron transport layer (ETL), through which absorbed electrons must pass. Often the ETL is applied through a process called spin coating, but such ETLs are fairly inefficient at converting input power to output power. André Taylor and colleagues tested a novel spray coating method for applying the ETL. The team produced ETLs of various thicknesses and concluded that spray coating holds promise for improving the power conversion efficiency of ETLs in perovskite solar cells.

Which choice best describes data from the graph that support Taylor and colleagues' conclusion?

A) Both the ETL applied through spin coating and the ETL applied through spray coating showed a power conversion efficiency greater than 10% at their lowest performing thickness.

B) The lowest performing ETL applied through spray coating had a higher power conversion efficiency than the highest performing ETL applied through spin coating.

C) The highest performing ETL applied through spray coating showed a power conversion efficiency of approximately 13%, while the highest performing ETL applied through spin coating showed a power conversion efficiency of approximately 11%.

D) There was a substantial difference in power conversion efficiency between the lowest and highest performing ETLs applied through spray coating.

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CONTINUE

17

While attending school in New York City in the 1980s, Okwui Enwezor encountered few works by African artists in exhibitions, despite New York's reputation as one of the best places to view contemporary art from around the world. According to an arts journalist, later in his career as a renowned curator and art historian, Enwezor sought to remedy this deficiency, not by focusing solely on modern African artists, but by showing how their work fits into the larger context of global modern art and art history.

Which finding, if true, would most directly support the journalist's claim?

A) As curator of the Haus der Kunst in Munich, Germany, Enwezor organized a retrospective of Ghanaian sculptor El Anatsui's work entitled *El Anatsui: Triumphant Scale*, one of the largest art exhibitions devoted to a Black artist in Europe's history.

B) In the exhibition *Postwar: Art Between the Pacific and the Atlantic, 1945–1965*, Enwezor and cocurator Katy Siegel brought works by African artists such as Malangatana Ngwenya together with pieces by major figures from other countries, like US artist Andy Warhol and Mexico's David Siqueiros.

C) Enwezor's work as curator of the 2001 exhibition *The Short Century: Independence and Liberation Movements in Africa, 1945–1994* showed how African movements for independence from European colonial powers following the Second World War profoundly influenced work by African artists of the period, such as Kamala Ibrahim Ishaq and Thomas Mukarobgwa.

D) Enwezor organized the exhibition *In/sight: African Photographers, 1940 to the Present* not to emphasize a particular aesthetic trend but to demonstrate the broad range of ways in which African artists have approached the medium of photography.

18

For thousands of years, people in the Americas _____ the bottle gourd, a large bitter fruit with a thick rind, to make bottles, other types of containers, and even musical instruments. Oddly, there is no evidence that any type of bottle gourd is native to the Western Hemisphere; either the fruit or its seeds must have somehow been carried from Asia or Africa.

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

A) to use

B) have used

C) having used

D) using

19

While many video game creators strive to make their graphics ever more_____others look to the past, developing titles with visuals inspired by the "8-bit" games of the 1980s and 1990s. (The term "8-bit" refers to a console whose processor could only handle eight bits of data at once.)

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

A) lifelike but

B) lifelike

C) lifelike,

D) lifelike, but

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CONTINUE

20

In the 1950s, a man named Joseph McVicker was struggling to keep his business afloat when his sister-in-law Kay Zufall advised him to repurpose the company's product, a nontoxic, clay-like substance for removing soot from wallpaper, as a modeling putty for kids. In addition, Zufall_____selling the product under a child-friendly name: Play-Doh.

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

A) suggested

B) suggests

C) had suggested

D) was suggesting

21

Beatrix Potter is perhaps best known for writing and illustrating children's books such as *The Tale of Peter Rabbit* (1902), but she also dedicated herself to mycology, the study of _____ more than 350 paintings of the fungal species she observed in nature and submitting her research on spore germination to the Linnean Society of London.

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

A) fungi; producing

B) fungi. Producing

C) fungi producing

D) fungi, producing

22

In assessing the films of Japanese director Akira Kurosawa, _____ have missed his equally deep engagement with Japanese artistic traditions such as Noh theater.

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

A) many critics have focused on Kurosawa's use of Western literary sources but

B) Kurosawa's use of Western literary sources has been the focus of many critics, who

C) there are many critics who have focused on Kurosawa's use of Western literary sources, but they

D) the focus of many critics has been on Kurosawa's use of Western literary sources; they

23

Joshua Hinson, director of the language revitalization program of the Chickasaw Nation in Oklahoma, helped produce the world's first Indigenous-language instructional app, Chickasaw _____ Chickasaw TV, in 2010; and a Rosetta Stone language course in Chickasaw, in 2015.

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

A) Basic; in 2009, an online television network;

B) Basic; in 2009, an online television network,

C) Basic, in 2009; an online television network,

D) Basic, in 2009, an online television network,

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CONTINUE

24

The forty-seven geothermal springs of Arkansas' Hot Springs National Park are sourced via a process known as natural groundwater recharge, in which rainwater percolates downward through the earth—in this case, the porous rocks of the hills around Hot _____ collect in a subterranean basin.

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

A) Springs to

B) Springs: to

C) Springs—to

D) Springs, to

25

Over twenty years ago, in a landmark experiment in the psychology of choice, professor Sheena Iyengar set up a jam-tasting booth at a grocery store. The number of jams available for tasting _____ some shoppers had twenty-four different options, others only six. Interestingly, the shoppers with fewer jams to choose from purchased more jam.

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

A) varied:

B) varied,

C) varied, while

D) varied while

26

Nigerian author Buchi Emecheta's celebrated literary oeuvre includes *The Joys of Motherhood*, a novel about the changing roles of women in 1950s _____ a television play about the private struggles of a newlywed couple in Nigeria; and *Head Above Water*, her autobiography.

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

A) Lagos, *A Kind of Marriage*,

B) Lagos; *A Kind of Marriage*,

C) Lagos, *A Kind of Marriage*:

D) Lagos; *A Kind of Marriage*

27

Chimamanda Ngozi Adichie's 2013 novel *Americanah* chronicles the divergent experiences of Ifemelu and Obinze, a young Nigerian couple, after high school. Ifemelu moves to the United States to attend a prestigious university. _____ Obinze travels to London, hoping to start a career there. However, frustrated with the lack of opportunities, he soon returns to Nigeria.

Which choice completes the text with the most logical transition?

A) Meanwhile,

B) Nevertheless,

C) Secondly,

D) In fact,

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CONTINUE

28

Organisms have evolved a number of surprising adaptations to ensure their survival in adverse conditions. Tadpole shrimp (*Triops longicaudatus*) embryos, _____ can pause development for over ten years during extended periods of drought.

Which choice completes the text with the most logical transition?

A) in contrast,

B) for example,

C) meanwhile,

D) consequently,

29

In 1933, the Twentieth Amendment to the US Constitution was ratified. The amendment mandates that presidential inaugurations be held on January 20, approximately ten weeks after the November election. _____ this amendment requires newly elected US senators and representatives to be sworn into their respective offices on January 3.

Which choice completes the text with the most logical transition?

A) Instead,

B) For instance,

C) Specifically,

D) In addition,

30

In her poetry collection *Thomas and Beulah*, Rita Dove interweaves the titular characters' personal stories with broader historical narratives. She places Thomas's journey from the American South to the Midwest in the early 1900s within the larger context of the Great Migration._____Dove sets events from Beulah's personal life against the backdrop of the US Civil Rights Movement.

Which choice completes the text with the most logical transition?

A) Specifically,

B) Thus,

C) Regardless,

D) Similarly,

31

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

- The Philadelphia and Lancaster Turnpike was a road built between 1792 and 1794.
- It was the first private turnpike in the United States.
- It connected the cities of Philadelphia and Lancaster in the state of Pennsylvania.
- It was sixty-two miles long.

The student wants to emphasize the distance covered by the Philadelphia and Lancaster Turnpike. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) The sixty-two-mile-long Philadelphia and Lancaster Turnpike connected the Pennsylvania cities of Philadelphia and Lancaster.

B) The Philadelphia and Lancaster Turnpike was the first private turnpike in the United States.

C) The Philadelphia and Lancaster Turnpike, which connected two Pennsylvania cities, was built between 1792 and 1794.

D) A historic Pennsylvania road, the Philadelphia and Lancaster Turnpike was completed in 1794.

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CONTINUE

32

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

- Most, but not all, of the Moon's oxygen comes from the Sun, via solar wind.
- Cosmochemist Kentaro Terada from Osaka University wondered if some of the unaccounted-for oxygen could be coming from Earth.
- In 2008, he analyzed data from the Japanese satellite Kaguya.
- Kaguya gathered data about gases and particles it encountered while orbiting the Moon.
- Based on the Kaguya data, Terada confirmed his suspicion that Earth is sending oxygen to the Moon.

The student wants to emphasize the aim of the research study. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) As it orbited the Moon, the Kaguya satellite collected data that was later analyzed by cosmochemist Kentaro Terada.

B) Before 2008, Kentaro Terada wondered if the Moon was receiving some of its oxygen from Earth.

C) Cosmochemist Kentaro Terada set out to determine whether some of the Moon's oxygen was coming from Earth.

D) Kentaro Terada's study determined that Earth is sending a small amount of oxygen to the Moon.

33

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

- Ducklings expend up to 62.8% less energy when swimming in a line behind their mother than when swimming alone.
- The physics behind this energy savings hasn't always been well understood.
- Naval architect Zhiming Yuan used computer simulations to study the effect of the mother duck's wake.
- The study revealed that ducklings are pushed in a forward direction by the wake's waves.
- Yuan determined this push reduces the effect of wave drag on the ducklings by 158%.

The student wants to present the study and its methodology. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) A study revealed that ducklings, which expend up to 62.8% less energy when swimming in a line behind their mother, also experience 158% less drag.

B) Seeking to understand how ducklings swimming in a line behind their mother save energy, Zhiming Yuan used computer simulations to study the effect of the mother duck's wake.

C) Zhiming Yuan studied the physics behind the fact that by being pushed in a forward direction by waves, ducklings save energy.

D) Naval architect Zhiming Yuan discovered that ducklings are pushed in a forward direction by the waves of their mother's wake, reducing the effect of drag by 158%.

STOP

If you finish before time is called, you may check your work on this module only. Do not turn to any other module in the test.

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Test begins on the next page.

SAT Practice 9

Reading and Writing

33 QUESTIONS

DIRECTIONS

The questions in this section address a number of important reading and writing skills. Each question includes one or more passages, which may include a table or graph. Read each passage and question carefully, and then choose the best answer to the question based on the passage(s).

All questions in this section are multiple-choice with four answer choices. Each question has a single best answer.

1

In the early 1800s, the Cherokee scholar Sequoyah created the first script, or writing system, for an Indigenous language in the United States. Because it represented the sounds of spoken Cherokee so accurately, his script was easy to learn and thus quickly achieved _____ use: by 1830, over 90 percent of the Cherokee people could read and write it.

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

A) widespread

B) careful

C) unintended

D) infrequent

2

When Mexican-American archaeologist Zelia Maria Magdalena Nuttall published her 1886 research paper on sculptures found at the ancient Indigenous city of Teotihuacan in present-day Mexico, other researchers readily _____ her work as ground-breaking; this recognition stemmed from her convincing demonstration that the sculptures were much older than had previously been thought.

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

A) acknowledged

B) ensured

C) denied

D) underestimated

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CONTINUE

3

Like other tribal nations, the Muscogee (Creek) Nation is self-governing; its National Council generates laws regulating aspects of community life such as land use and healthcare, while the principal chief and cabinet officials _____ those laws by devising policies and administering services in accordance with them.

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

A) implement

B) presume

C) improvise

D) mimic

4

In the Indigenous intercropping system known as the Three Sisters, maize, squash, and beans form an _____ web of relations: maize provides the structure on which the bean vines grow; the squash vines cover the soil, discouraging competition from weeds; and the beans aid their two "sisters" by enriching the soil with essential nitrogen.

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

A) indecipherable

B) ornamental

C) obscure

D) intricate

5

The artisans of the Igun Eronmwon guild in Benin City, Nigeria, typically _____ the bronze- and brass-casting techniques that have been passed down through their families since the thirteenth century, but they don't strictly observe every tradition; for example, guild members now use air-conditioning motors instead of handheld bellows to help heat their forges.

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

A) experiment with

B) adhere to

C) improve on

D) grapple with

6

Some economic historians _____ that late nineteenth- and early twentieth-century households in the United States experienced an economy of scale when it came to food purchases—they assumed that large households spent less on food per person than did small households. Economist Trevon Logan showed, however, that a close look at the available data disproves this supposition.

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

A) surmised

B) contrived

C) questioned

D) regretted

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CONTINUE

7

The work of Kiowa painter T.C. Cannon derives its power in part from the tension among his _____ influences: classic European portraiture, with its realistic treatment of faces; the American pop art movement, with its vivid colors; and flatstyle, the intertribal painting style that rejects the effect of depth typically achieved through shading and perspective.

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

A) complementary

B) unknown

C) disparate

D) interchangeable

8

New and interesting research conducted by Suleiman A. Al-Sweedan and Moath Alhaj is inspired by their observation that though there have been many studies of the effect of high altitude on blood chemistry, there is a_____studies of the effect on blood chemistry of living in locations below sea level, such as the California towns of Salton City and Seeley.

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

A) quarrel about

B) paucity of

C) profusion of

D) verisimilitude in

9

The following text is from Sarah Orne Jewett's 1899 short story "Martha's Lady." Martha is employed by Miss Pyne as a maid.

> Miss Pyne sat by the window watching, in her best dress, looking stately and calm; she seldom went out now, and it was almost time for the carriage. Martha was just coming in from the garden with the strawberries, and with more flowers in her apron. It was a bright cool evening in June, the golden robins sang in the elms, and the sun was going down behind the apple-trees at the foot of the garden. The beautiful old house stood wide open to the long-expected guest.

Which choice best states the main purpose of the text?

A) To convey the worries brought about by a new guest

B) To describe how the characters have changed over time

C) To contrast the activity indoors with the stillness outside

D) To depict the setting as the characters await a visitor's arrival

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CONTINUE

10

Astronomers are confident that the star Betelgeuse will eventually consume all the helium in its core and explode in a supernova. They are much less confident, however, about when this will happen, since that depends on internal characteristics of Betelgeuse that are largely unknown. Astrophysicist Sarafina El-Badry Nance and colleagues recently investigated whether acoustic waves in the star could be used to determine internal stellar states but concluded that this method could not sufficiently reveal Betelgeuse's internal characteristics to allow its evolutionary state to be firmly fixed.

Which choice best describes the function of the second sentence in the overall structure of the text?

A) It explains how the work of Nance and colleagues was received by others in the field.

B) It presents the central finding reported by Nance and colleagues.

C) It identifies the problem that Nance and colleagues attempted to solve but did not.

D) It describes a serious limitation of the method used by Nance and colleagues.

11

The following text is from Jane Austen's 1811 novel *Sense and Sensibility*. Elinor lives with her younger sisters and her mother, Mrs. Dashwood.

> Elinor, this eldest daughter, whose advice was so effectual, possessed a strength of understanding, and coolness of judgment, which qualified her, though only nineteen, to be the counsellor of her mother, and enabled her frequently to counteract, to the advantage of them all, that eagerness of mind in Mrs. Dashwood which must generally have led to imprudence. She had an excellent heart;—her disposition was affectionate, and her feelings were strong; but she knew how to govern them: it was a knowledge which her mother had yet to learn; and which one of her sisters had resolved never to be taught.

According to the text, what is true about Elinor?

A) Elinor often argues with her mother but fails to change her mind.

B) Elinor can be overly sensitive with regard to family matters.

C) Elinor thinks her mother is a bad role model.

D) Elinor is remarkably mature for her age.

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CONTINUE

12

Believing that living in an impractical space can heighten awareness and even improve health, conceptual artists Madeline Gins and Shusaku Arakawa designed an apartment building in Japan to be more fanciful than functional. A kitchen counter is chest-high on one side and knee-high on the other; a ceiling has a door to nowhere. The effect is disorienting but invigorating: after four years there, filmmaker Nobu Yamaoka reported significant health benefits.

Which choice best states the main idea of the text?

A) Although inhabiting a home surrounded by fanciful features such as those designed by Gins and Arakawa can be rejuvenating, it is unsustainable.

B) Designing disorienting spaces like those in the Gins and Arakawa building is the most effective way to create a physically stimulating environment.

C) As a filmmaker, Yamaoka has long supported the designs of conceptual artists such as Gins and Arakawa.

D) Although impractical, the design of the apartment building by Gins and Arakawa may improve the well-being of the building's residents.

13

In a research paper, a student criticizes some historians of modern African politics, claiming that they have evaluated Patrice Lumumba, the first prime minister of what is now the Democratic Republic of the Congo, primarily as a symbol rather than in terms of his actions.

Which quotation from a work by a historian would best illustrate the student's claim?

A) "Lumumba is a difficult figure to evaluate due to the starkly conflicting opinions he inspired during his life and continues to inspire today."

B) "The available information makes it clear that Lumumba's political beliefs and values were largely consistent throughout his career."

C) "Lumumba's practical accomplishments can be passed over quickly; it is mainly as the personification of Congolese independence that he warrants scholarly attention."

D) "Many questions remain about Lumumba's ultimate vision for an independent Congo; without new evidence coming to light, these questions are likely to remain unanswered."

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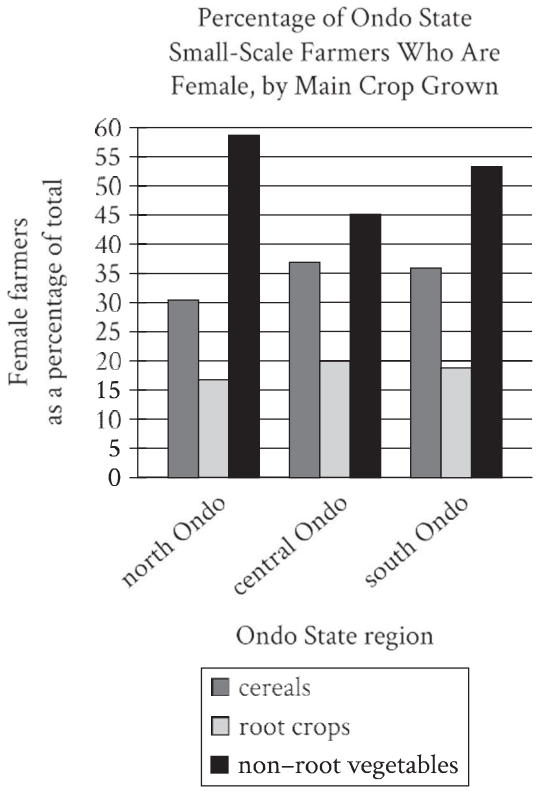
14



Geographer Adebayo Oluwole Eludoyin and his colleagues surveyed small-scale farmers in three locations in Ondo State, Nigeria—which has mountainous terrain in the north, an urbanized center, and coastal terrain in the south—to learn more about their practices, like the types of crops they mainly cultivated. In some regions, female farmers were found to be especially prominent in the cultivation of specific types of crops and even constituted the majority of farmers who cultivated those crops; for instance, _____

Which choice most effectively uses data from the graph to complete the example?

A) most of the farmers who mainly cultivated cereals and most of the farmers who mainly cultivated non–root vegetables in south Ondo were women.

B) more women in central Ondo mainly cultivated root crops than mainly cultivated cereals.

C) most of the farmers who mainly cultivated non–root vegetables in north and south Ondo were women.

D) a relatively equal proportion of women across the three regions of Ondo mainly cultivated cereals.

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CONTINUE

15

Given that stars and planets initially form from the same gas and dust in space, some astronomers have posited that host stars (such as the Sun) and their planets (such as those in our solar system) are composed of the same materials, with the planets containing equal or smaller quantities of the materials that make up the host star. This idea is also supported by evidence that rocky planets in our solar system are composed of some of the same materials as the Sun.

Which finding, if true, would most directly weaken the astronomers' claim?

A) Most stars are made of hydrogen and helium, but when cooled they are revealed to contain small amounts of iron and silicate.

B) A nearby host star is observed to contain the same proportion of hydrogen and helium as that of the Sun.

C) Evidence emerges that the amount of iron in some rocky planets is considerably higher than the amount in their host star.

D) The method for determining the composition of rocky planets is discovered to be less effective when used to analyze other kinds of planets.

16

In the twentieth century, ethnographers made a concerted effort to collect Mexican American folklore, but they did not always agree about that folklore's origins. Scholars such as Aurelio Espinosa claimed that Mexican American folklore derived largely from the folklore of Spain, which ruled Mexico and what is now the southwestern United States from the sixteenth to early nineteenth centuries. Scholars such as Américo Paredes, by contrast, argued that while some Spanish influence is undeniable, Mexican American folklore is mainly the product of the ongoing interactions of various cultures in Mexico and the United States.

Which finding, if true, would most directly support Paredes's argument?

A) The folklore that the ethnographers collected included several songs written in the form of a *décima*, a type of poem originating in late sixteenth-century Spain.

B) Much of the folklore that the ethnographers collected had similar elements from region to region.

C) Most of the folklore that the ethnographers collected was previously unknown to scholars.

D) Most of the folklore that the ethnographers collected consisted of *corridos*—ballads about history and social life—of a clearly recent origin.

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CONTINUE

17

In the early nineteenth century, some Euro-American farmers in the northeastern United States used agricultural techniques developed by the Haudenosaunee (Iroquois) people centuries earlier, but it seems that few of those farmers had actually seen Haudenosaunee farms firsthand. Barring the possibility of several farmers of the same era independently developing techniques that the Haudenosaunee people had already invented, these facts most strongly suggest that _____

Which choice most logically completes the text?

A) those farmers learned the techniques from other people who were more directly influenced by Haudenosaunee practices.

B) the crops typically cultivated by Euro-American farmers in the northeastern United States were not well suited to Haudenosaunee farming techniques.

C) Haudenosaunee farming techniques were widely used in regions outside the northeastern United States.

D) Euro-American farmers only began to recognize the benefits of Haudenosaunee farming techniques late in the nineteenth century.

18

If some artifacts recovered from excavations of the settlement of Kuulo Kataa, in modern Ghana, date from the thirteenth century CE, that may lend credence to claims that the settlement was founded before or around that time. There is other evidence, however, strongly supporting a fourteenth century CE founding date for Kuulo Kataa. If both the artifact dates and the fourteenth century CE founding date are correct, that would imply that _____

Which choice most logically completes the text?

A) artifacts from the fourteenth century CE are more commonly recovered than are artifacts from the thirteenth century CE.

B) the artifacts originated elsewhere and eventually reached Kuulo Kataa through trade or migration.

C) Kuulo Kataa was founded by people from a different region than had previously been assumed.

D) excavations at Kuulo Kataa may have inadvertently damaged some artifacts dating to the fourteenth century CE.

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CONTINUE

19

A team of biologists led by Jae-Hoon Jung, Antonio D. Barbosa, and Stephanie Hutin investigated the mechanism that allows *Arabidopsis thaliana* (thale cress) plants to accelerate flowering at high temperatures. They replaced the protein ELF3 in the plants with a similar protein found in another species (stiff brome) that, unlike *A. thaliana*, displays no acceleration in flowering with increased temperature. A comparison of unmodified *A. thaliana* plants with the altered plants showed no difference in flowering at 22° Celsius, but at 27° Celsius, the unmodified plants exhibited accelerated flowering while the altered ones did not, which suggests that _____

Which choice most logically completes the text?

A) temperature-sensitive accelerated flowering is unique to *A. thaliana*.

B) *A. thaliana* increases ELF3 production as temperatures rise.

C) ELF3 enables *A. thaliana* to respond to increased temperatures.

D) temperatures of at least 22° Celsius are required for *A. thaliana* to flower.

20

A member of the Cherokee Nation, Mary Golda Ross is renowned for her contributions to NASA's Planetary Flight Handbook, which _____ detailed mathematical guidance for missions to Mars and Venus.

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

A) provided

B) having provided

C) to provide

D) providing

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CONTINUE

21

Typically, underlines, scribbles, and notes left in the margins by a former owner lower a book's _____ when the former owner is a famous poet like Walt Whitman, such markings, known as marginalia, can be a gold mine to literary scholars.

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

A) value, but

B) value

C) value,

D) value but

22

After the United Kingdom began rolling out taxes equivalent to a few cents on single-use plastic grocery bags in 2011, plastic-bag consumption decreased by up to ninety _____ taxes are subject to what economists call the "rebound effect": as the change became normalized, plastic-bag use started to creep back up.

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

A) percent, such

B) percent and such

C) percent. Such

D) percent such

23

As British scientist Peter Whibberley has observed, "the Earth is not a very good timekeeper." Earth's slightly irregular rotation rate means that measurements of time must be periodically adjusted. Specifically, an extra "leap second" (the 86,401st second of the day) is_____time based on the planet's rotation lags a full nine-tenths of a second behind time kept by precise atomic clocks.

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

A) added, whenever

B) added; whenever

C) added. Whenever

D) added whenever

24

Bengali author Toru Dutt's *A Sheaf Gleaned in French Fields* (1876), a volume of English translations of French poems, _____ scholars' understanding of the transnational and multilingual contexts in which Dutt lived and worked.

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

A) has enhanced

B) are enhancing

C) have enhanced

D) enhance

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CONTINUE

25

Journalists have dubbed Gil Scott-Heron the "godfather of rap," a title that has appeared in hundreds of articles about him since the 1990s. Scott-Heron himself resisted the godfather _____ feeling that it didn't encapsulate his devotion to the broader African American blues music tradition as well as "bluesologist," the moniker he preferred.

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

A) nickname, however

B) nickname, however;

C) nickname, however,

D) nickname; however,

26

From afar, African American fiber artist Bisa Butler's portraits look like paintings, their depictions of human faces, bodies, and clothing so intricate that it seems only a fine brush could have rendered them. When viewed up close, however, the portraits reveal themselves to be_____stitching barely visible among the thousands of pieces of printed, microcut fabric.

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

A) quilts, and the

B) quilts, the

C) quilts; the

D) quilts. The

27

Most conifers (trees belonging to the phylum Coniferophyta) are evergreen. That is, they keep their green leaves or needles year-round. However, not all conifer species are evergreen. Larch trees, _____ lose their needles every fall.

Which choice completes the text with the most logical transition?

A) for instance,

B) nevertheless,

C) meanwhile,

D) in addition,

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CONTINUE

28

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

- Sam Maloof (1916–2009) was an American woodworker and furniture designer.
- He was the son of Lebanese immigrants.
- He received a "genius grant" from the John D. and Catherine T. MacArthur Foundation in 1985.
- The Museum of Fine Arts in Boston, Massachusetts, owns a rocking chair that Maloof made from walnut wood.
- The armrests and the seat of the chair are sleek and contoured, and the back consists of seven spindle-like slats.

The student wants to describe the rocking chair to an audience unfamiliar with Sam Maloof. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) With its sleek, contoured armrests and seat, the walnut rocking chair in Boston's Museum of Fine Arts is just one piece of furniture created by American woodworker Sam Maloof.

B) Sam Maloof was born in 1916 and died in 2009, and during his life, he made a chair that you can see if you visit the Museum of Fine Arts in Boston.

C) Furniture designer Sam Maloof was a recipient of one of the John D. and Catherine T. MacArthur Foundation's "genius grants."

D) The rocking chair is made from walnut, and it has been shaped such that its armrests and seat are sleek and contoured.

29

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

- In the late 1890s, over 14,000 unique varieties of apples were grown in the US.
- The rise of industrial agriculture in the mid-1900s narrowed the range of commercially grown crops.
- Thousands of apple varieties considered less suitable for commercial growth were lost.
- Today, only 15 apple varieties dominate the market, making up 90% of apples purchased in the US.
- The Lost Apple Project, based in Washington State, attempts to find and grow lost apple varieties.

The student wants to emphasize the decline in unique apple varieties in the US and specify why this decline occurred. Which choice most effectively uses relevant information from the notes to accomplish these goals?

A) The Lost Apple Project is dedicated to finding some of the apple varieties lost following a shift in agricultural practices in the mid-1900s.

B) While over 14,000 apple varieties were grown in the US in the late 1890s, only 15 unique varieties make up most of the apples sold today.

C) Since the rise of industrial agriculture, US farmers have mainly grown the same few unique apple varieties, resulting in the loss of thousands of varieties less suitable for commercial growth.

D) As industrial agriculture rose to prominence in the mid-1900s, the number of crops selected for cultivation decreased dramatically.

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CONTINUE

30

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

- Cecilia Vicuña is a multidisciplinary artist.
- In 1971, her first solo art exhibition, *Pinturas, poemas y explicaciones,* was shown at the Museo Nacional de Bellas Artes in Santiago, Chile.
- Her poetry collection *Precario/Precarious* was published in 1983 by Tanam Press.
- Her poetry collection *Instan* was published in 2002 by Kelsey St. Press.
- She lives part time in Chile, where she was born, and part time in New York.

The student wants to introduce the artist's 1983 poetry collection. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) Before she published the books *Precario/Precarious* (1983) and *Instan* (2002), Cecilia Vicuña exhibited visual art at the Museo Nacional de Bellas Artes in Santiago, Chile.

B) Cecilia Vicuña is a true multidisciplinary artist whose works include numerous poetry collections and visual art exhibitions.

C) Published in 1983 by Tanam Press, *Precario/Precarious* is a collection of poetry by the multidisciplinary artist Cecilia Vicuña.

D) In 1971, Cecilia Vicuña exhibited her first solo art exhibition, *Pinturas, poemas y explicaciones*, in Chile, her country of birth.

31

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

- When medical students mention their patients on social media, they may violate patient confidentiality.
- Terry Kind led a study to determine how many medical schools have student policies that mention social media use.
- Kind and her team reviewed 132 medical school websites, examining publicly available student policies.
- Only thirteen medical schools had guidelines that explicitly mention social media, and only five defined what constitutes acceptable social media use.

The student wants to emphasize the study's methodology. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) The student policies of 132 medical schools can be found online, according to research by Terry Kind.

B) To find out how many medical schools have guidelines about student social media use, Terry Kind and her team examined the student policies of 132 medical schools.

C) Out of 132 medical schools, only thirteen had student policies that mentioned social media, and only five specified what use was acceptable.

D) Terry Kind and her team wanted to know how many medical schools have student social media policies in place about protecting patient confidentiality.

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CONTINUE

32

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

- The Gullah are a group of African Americans who have lived in parts of the southeastern United States since the 18th century.
- Gullah culture is influenced by West African and Central African traditions.
- Louise Miller Cohen is a Gullah historian, storyteller, and preservationist.
- She founded the Gullah Museum of Hilton Head Island, South Carolina, in 2003.
- Vermelle Rodrigues is a Gullah historian, artist, and preservationist.
- She founded the Gullah Museum of Georgetown, South Carolina, in 2003.

The student wants to emphasize the duration and purpose of Cohen's and Rodrigues's work. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) At the Gullah Museums in Hilton Head Island and Georgetown, South Carolina, visitors can learn more about the Gullah people who have lived in the region for centuries.

B) Louise Miller Cohen and Vermelle Rodrigues have worked to preserve the culture of the Gullah people, who have lived in the United States since the 18th century.

C) Since 2003, Louise Miller Cohen and Vermelle Rodrigues have worked to preserve Gullah culture through their museums.

D) Influenced by the traditions of West and Central Africa, Gullah culture developed in parts of the southeastern United States in the 18th century.

33

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

- In North America, woodlands have expanded into areas that were once grasslands.
- Thomas Rogers and F. Leland Russell of Wichita State University investigated whether woodland expansion is related to changes in climate.
- Rogers and Russell analyzed core samples from oak trees on a site that was not wooded in the past and indexed the age of the trees with historical climate data to see if tree populations and climate were correlated.
- Tree population growth was associated with dry intervals.
- Droughts may have played a role in woodland expansion.

The student wants to emphasize the aim of the research study. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) Thomas Rogers and F. Leland Russell, researchers at Wichita State University, wanted to know if woodland expansion is related to changes in climate.

B) Thanks to the work done by Thomas Rogers and F. Leland Russell, we now know that droughts may have played a role in woodland expansion.

C) Wichita State University researchers have determined that tree population growth was associated with dry intervals.

D) Thomas Rogers and F. Leland Russell analyzed core samples from oak trees on a site that was not wooded in the past, indexing the age of the trees with historical climate data.

STOP

If you finish before time is called, you may check your work on this module only. Do not turn to any other module in the test.

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SAT Practice Test 10

Reading and Writing

33 QUESTIONS

DIRECTIONS

The questions in this section address a number of important reading and writing skills. Each question includes one or more passages, which may include a table or graph. Read each passage and question carefully, and then choose the best answer to the question based on the passage(s).

All questions in this section are multiple-choice with four answer choices. Each question has a single best answer.

1

According to botanists, a viburnum plant experiencing insect damage may develop erineum—a discolored, felty growth—on its leaf blades. A _____ viburnum plant, on the other hand, will have leaves with smooth surfaces and uniformly green coloration.

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

A) struggling
B) beneficial
C) simple
D) healthy

2

Nigerian American author Teju Cole's _____ his two passions—photography and the written word—culminates in his 2017 book, *Blind Spot*, which evocatively combines his original photographs from his travels with his poetic prose.

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

A) indifference to
B) enthusiasm for
C) concern about
D) surprise at

3

Novelist N. K. Jemisin declines to _____ the conventions of the science fiction genre in which she writes, and she has suggested that her readers appreciate her work precisely because of this willingness to thwart expectations and avoid formulaic plots and themes.

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

A) question
B) react to
C) perceive
D) conform to

4

In *Nature Poem* (2017), Kumeyaay poet Tommy Pico portrays his _____ the natural world by honoring the centrality of nature within his tribe's traditional beliefs while simultaneously expressing his distaste for being in wilderness settings himself.

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

A) responsiveness to
B) ambivalence toward
C) renunciation of
D) mastery over

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CONTINUE

5

The following text is from the 1924 poem "Cycle" by D'Arcy McNickle, who was a citizen of the Confederated Salish and Kootenai Tribes.

> There shall be new roads wending,
> A new beating of the drum—
>
> Men's eyes shall have fresh seeing,
> Grey lives reprise their span—
> But under the new sun's being,
> Completing what night began,
>
> There'll be the same backs bending,
> The same sad feet shall drum—
> When this night finds its ending
> And day shall have come.....

Which choice best states the main purpose of the text?

A) To consider how the repetitiveness inherent in human life can be both rewarding and challenging

B) To question whether activities completed at one time of day are more memorable than those completed at another time of day

C) To refute the idea that joy is a more commonly experienced emotion than sadness is

D) To demonstrate how the experiences of individuals relate to the experiences of their communities

6

The following text is adapted from Jane Austen's 1814 novel *Mansfield Park*. The speaker, Tom, is considering staging a play at home with a group of his friends and family.

> We mean nothing but a little amusement among ourselves, just to vary the scene, and exercise our powers in something new. We want no audience, no publicity. We may be trusted, I think, in choosing some play most perfectly unexceptionable; and I can conceive no greater harm or danger to any of us in conversing in the elegant written language of some respectable author than in chattering in words of our own.

Which choice best states the main purpose of the text?

A) To offer Tom's assurance that the play will be inoffensive and involve only a small number of people

B) To clarify that the play will not be performed in the manner Tom had originally intended

C) To elaborate on the idea that the people around Tom lack the skills to successfully stage a play

D) To assert that Tom believes the group performing the play will be able to successfully promote it

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CONTINUE

7

Musician Joni Mitchell, who is also a painter, uses images she creates for her album covers to emphasize ideas expressed in her music. For the cover of her album *Turbulent Indigo* (1994), Mitchell painted a striking self-portrait that closely resembles Vincent van Gogh's *Self-Portrait with Bandaged Ear* (1889). The image calls attention to the album's title song, in which Mitchell sings about the legacy of the postimpressionist painter. In that song, Mitchell also hints that she feels a strong artistic connection to Van Gogh—an idea that is reinforced by her imagery on the cover.

Which choice best describes the overall structure of the text?

A) It presents a claim about Mitchell, then gives an example supporting that claim.

B) It discusses Van Gogh's influence on Mitchell, then considers Mitchell's influence on other artists.

C) It describes a similarity between two artists, then notes a difference between them.

D) It describes the songs on *Turbulent Indigo*, then explains how they relate to the album's cover.

8

Text 1
Astronomer Mark Holland and colleagues examined four white dwarfs—small, dense remnants of past stars—in order to determine the composition of exoplanets that used to orbit those stars. Studying wavelengths of light in the white dwarf atmospheres, the team reported that traces of elements such as lithium and sodium support the presence of exoplanets with continental crusts similar to Earth's.

Text 2
Past studies of white dwarf atmospheres have concluded that certain exoplanets had continental crusts. Geologist Keith Putirka and astronomer Siyi Xu argue that those studies unduly emphasize atmospheric traces of lithium and other individual elements as signifiers of the types of rock found on Earth. The studies don't adequately account for different minerals made up of various ratios of those elements, and the possibility of rock types not found on Earth that contain those minerals.

Based on the texts, how would Putirka and Xu (Text 2) most likely characterize the conclusion presented in Text 1?

A) As unexpected, because it was widely believed at the time that white dwarf exoplanets lack continental crusts

B) As premature, because researchers have only just begun trying to determine what kinds of crusts white dwarf exoplanets had

C) As questionable, because it rests on an incomplete consideration of potential sources of the elements detected in white dwarf atmospheres

D) As puzzling, because it's unusual to successfully detect lithium and sodium when analyzing wavelengths of light in white dwarf atmospheres

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CONTINUE

Utah is home to Pando, a colony of about 47,000 quaking aspen trees that all share a single root system. Pando is one of the largest single organisms by mass on Earth, but ecologists are worried that its growth is declining in part because of grazing by animals. The ecologists say that strong fences could prevent deer from eating young trees and help Pando start thriving again.

According to the text, why are ecologists worried about Pando?

A) It isn't growing at the same rate it used to.

B) It isn't producing young trees anymore.

C) It can't grow into new areas because it is blocked by fences.

D) Its root system can't support many more new trees.

For many years, the only existing fossil evidence of mixopterid eurypterids—an extinct family of large aquatic arthropods known as sea scorpions and related to modern arachnids and horseshoe crabs—came from four species living on the paleocontinent of Laurussia. In a discovery that expands our understanding of the geographical distribution of mixopterids, paleontologist Bo Wang and others have identified fossilized remains of a newmixopterid species, *Terropterus xiushanensis*, that lived over 400 million years ago on the paleocontinent of Gondwana.

According to the text, why was Wang and his team's discovery of the *Terropterus xiushanensis* fossil significant?

A) The fossil constitutes the first evidence found by scientists that mixopterids lived more than 400 million years ago.

B) The fossil helps establish that mixopterids are more closely related to modern arachnids and horseshoe crabs than previously thought.

C) The fossil helps establish a more accurate timeline of the evolution of mixopterids on the paleocontinents of Laurussia and Gondwana.

D) The fossil constitutes the first evidence found by scientists that mixopterids existed outside the paleocontinent of Laurussia.

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CONTINUE

The novelist Toni Morrison was the first Black woman to work as an editor at the publishing company Random House, from 1967 to 1983. A scholar asserts that one of Morrison's likely aims during her time as an editor was to strengthen the presence of Black writers on the list of Random House's published authors.

Which finding, if true, would most strongly support the scholar's claim?

A) The percentage of authors published by Random House who were Black rose in the early 1970s and stabilized throughout the decade.

B) Black authors who were interviewed in the 1980s and 1990s were highly likely to cite Toni Morrison's novels as a principal influence on their work.

C) The novels written by Toni Morrison that were published after 1983 sold significantly more copies and received wider critical acclaim than the novels she wrote that were published before 1983.

D) Works that were edited by Toni Morrison during her time at Random House displayed stylistic characteristics that distinguished them from works that were not edited by Morrison.

"The Poet Walt Whitman" is an 1887 essay by José Martí, a Cuban author and political activist, originally written in Spanish. In the essay, Martí explores the value of literature, arguing that a society's spiritual well-being depends on the character of its literary culture: _____

Which quotation from a translation of "The Poet Walt Whitman" most effectively illustrates the claim?

A) "Poetry, which brings together or separates, which fortifies or brings anguish, which shores up or demolishes souls, which gives or robs men of faith and vigor, is more necessary to a people than industry itself, for industry provides them with a means of subsistence, while literature gives them the desire and strength for life."

B) "Every society brings to literature its own form of expression, and the history of the nations can be told with greater truth by the stages of literature than by chronicles and decades."

C) "Where will a race of men go when they have lost the habit of thinking with faith about the scope and meaning of their actions? The best among them, those who consecrate Nature with their sacred desire for the future, will lose, in a sordid and painful annihilation, all stimulus to alleviate the ugliness of humanity."

D) "Listen to the song of this hardworking and satisfied nation; listen to Walt Whitman. The exercise of himself exalts him to majesty, tolerance exalts him to justice, and order to joy."

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CONTINUE

Estimates of Tyrannosaurid Bite Force

Study	Year	Estimation method	Approximate bite force (newtons)
Cost et al.	2019	muscular and skeletal modeling	35,000–63,000
Gignac and Erickson	2017	tooth-bone interaction analysis	8,000–34,000
Meers	2002	body-mass scaling	183,000–235,000
Bates and Falkingham	2012	muscular and skeletal modeling	35,000–57,000

The largest tyrannosaurids—the family of carnivorous dinosaurs that includes *Tarbosaurus*, *Albertosaurus*, and, most famously, *Tyrannosaurus rex*—are thought to have had the strongest bites of any land animals in Earth's history. Determining the bite force of extinct animals can be difficult, however, and paleontologists Paul Barrett and Emily Rayfield have suggested that an estimate of dinosaur bite force may be significantly influenced by the methodology used in generating that estimate.

Which choice best describes data from the table that support Barrett and Rayfield's suggestion?

A) The study by Meers used body-mass scaling and produced the lowest estimated maximum bite force, while the study by Cost et al. used muscular and skeletal modeling and produced the highest estimated maximum.

B) In their study, Gignac and Erickson used tooth-bone interaction analysis to produce an estimated bite force range with a minimum of 8,000 newtons and a maximum of 34,000 newtons.

C) The bite force estimates produced by Bates and Falkingham and by Cost et al. were similar to each other, while the estimates produced by Meers and by Gignac and Erickson each differed substantially from any other estimate.

D) The estimated maximum bite force produced by Cost et al. exceeded the estimated maximum produced by Bates and Falkingham, even though both groups of researchers used the same method to generate their estimates.

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CONTINUE

Number and Origin of Clamshell Tools Found at Different Levels Below the Surface in Neanderthal Cave

Depth of tools found below surface in cave (meters)	Clamshells that Neanderthals collected from the beach	Clamshells that Neanderthals harvested from the seafloor
3–4	99	33
6–7	1	0
4–5	2	0
2–3	7	0
5–6	18	7

Studying tools unearthed at a cave site on the western coast of Italy, archaeologist Paola Villa and colleagues have determined that prehistoric Neanderthal groups fashioned them from shells of clams that they harvested from the seafloor while wading or diving or that washed up on the beach. Clamshells become thin and eroded as they wash up on the beach, while those on the seafloor are smooth and sturdy, so the research team suspects that Neanderthals prized the tools made with seafloor shells. However, the team also concluded that those tools were likely more challenging to obtain, noting that _____

Which choice most effectively uses data from the table to support the research team's conclusion?

A) at each depth below the surface in the cave, the difference in the numbers of tools of each type suggests that shells were easier to collect from the beach than to harvest from the seafloor.

B) the highest number of tools were at a depth of 3–4 meters below the surface, which suggests that the Neanderthal population at the site was highest during the related period of time.

C) at each depth below the surface in the cave, the difference in the numbers of tools of each type suggests that Neanderthals preferred to use clamshells from the beach because of their durability.

D) the higher number of tools at depths of 5–6 meters below the surface in the cave than at depths of 4–5 meters below the surface suggests that the size of clam populations changed over time.

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CONTINUE

Average Number and Duration of Torpor Bouts and Arousal Episodes for Alaska Marmots and Arctic Ground Squirrels, 2008–2011

Feature	Alaska marmots	Arctic ground squirrels
torpor bouts	12	10.5
duration per bout	13.81 days	16.77 days
arousal episodes	11	9.5
duration per episode	21.2 hours	14.2 hours

When hibernating, Alaska marmots and Arctic ground squirrels enter a state called torpor, which minimizes the energy their bodies need to function. Often a hibernating animal will temporarily come out of torpor (called an arousal episode) and its metabolic rate will rise, burning more of the precious energy the animal needs to survive the winter. Alaska marmots hibernate in groups and therefore burn less energy keeping warm during these episodes than they would if they were alone. A researcher hypothesized that because Arctic ground squirrels hibernate alone, they would likely exhibit longer bouts of torpor and shorter arousal episodes than Alaska marmots.

Which choice best describes data from the table that support the researcher's hypothesis?

A) The Alaska marmots' arousal episodes lasted for days, while the Arctic ground squirrels' arousal episodes lasted less than a day.

B) The Alaska marmots and the Arctic ground squirrels both maintained torpor for several consecutive days per bout, on average.

C) The Alaska marmots had shorter torpor bouts and longer arousal episodes than the Arctic ground squirrels did.

D) The Alaska marmots had more torpor bouts than arousal episodes, but their arousal episodes were much shorter than their torpor bouts.

Ratified by more than 90 countries, the Nagoya Protocol is an international agreement ensuring that Indigenous communities are compensated when their agricultural resources and knowledge of wild plants and animals are utilized by agricultural corporations. However, the protocol has shortcomings. For example, it allows corporations to insist that their agreements with communities to conduct research on the commercial uses of the communities' resources and knowledge remain confidential. Therefore, some Indigenous advocates express concern that the protocol may have the unintended effect of _____

Which choice most logically completes the text?

A) diminishing the monetary reward that corporations might derive from their agreements with Indigenous communities.

B) limiting the research that corporations conduct on the resources of the Indigenous communities with which they have signed agreements.

C) preventing independent observers from determining whether the agreements guarantee equitable compensation for Indigenous communities.

D) discouraging Indigenous communities from learning new methods for harvesting plants and animals from their corporate partners.

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CONTINUE

The domestic sweet potato (*Ipomoea batatas*) descends from a wild plant native to South America. It also populates the Polynesian Islands, where evidence confirms that Native Hawaiians and other Indigenous peoples were cultivating the plant centuries before seafaring first occurred over the thousands of miles of ocean separating them from South America. To explain how the sweet potato was first introduced in Polynesia, botanist Pablo Muñoz-Rodríguez and colleagues analyzed the DNA of numerous varieties of the plant, concluding that Polynesian varieties diverged from South American ones over 100,000 years ago. Given that Polynesia was peopled only in the last three thousand years, the team concluded that _____

Which choice most logically completes the text?

A) the cultivation of the sweet potato in Polynesia likely predates its cultivation in South America.

B) Polynesian peoples likely acquired the sweet potato from South American peoples only within the last three thousand years.

C) human activity likely played no role in the introduction of the sweet potato in Polynesia.

D) Polynesian sweet potato varieties likely descend from a single South American variety that was domesticated, not wild.

18

Atoms in a synchrotron, a type of circular particle accelerator, travel faster and faster until they _____ a desired energy level, at which point they are diverted to collide with a target, smashing the atoms.

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

A) will reach

B) reach

C) had reached

D) are reaching

Even though bats prefer very sweet nectar, the plants that attract them have evolved to produce nectar that is only moderately sweet. A recent study _____ why: making sugar is energy-intensive, and it is more advantageous for plants to make a large amount of low-sugar nectar than a small amount of high-sugar nectar.

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

A) explains

B) explaining

C) having explained

D) to explain

20

Former First Lady of the United States Eleanor Roosevelt and Indian activist and educator Hansa Mehta were instrumental in drafting the United Nations' Universal Declaration of Human Rights, a document that _____ the basic freedoms to which all people are entitled.

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

A) have outlined

B) were outlining

C) outlines

D) outline

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CONTINUE

21

The life spans of rockfish vary greatly by species. For instance, the colorful calico rockfish (*Sebastes dallii*) can survive for a little over a the rougheye rockfish (*Sebastes aleutianus*) boasts a maximum life span of about two centuries.

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

A) decade: while

B) decade. While

C) decade; while

D) decade, while

22

The Lion Light system, developed by Kenyan inventor Richard Turere, consists of LED lights installed around the perimeter of livestock pastures. Powered with _____ the blinking LEDs keep lions away at night, thus protecting the livestock without risking harm to the endangered lions.

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

A) energy collected, by solar panels, during the day

B) energy collected by solar panels during the day

C) energy collected by solar panels during the day,

D) energy, collected by solar panels during the day,

23

Materials scientist Marie-Agathe Charpagne and her colleagues believed they could improve on the multicomponent alloy NiCoCr, an equal-proportions mixture of nickel (Ni), cobalt (Co), and chromium (Cr), by replacing chromium with ruthenium _____ the alloy that resulted, NiCoRu, turned out to be an unsuitable replacement for NiCoCr.

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

A) (Ru)

B) (Ru) but

C) (Ru),

D) (Ru), but

24

The Progressive Era in the United States witnessed the rise of numerous Black women's clubs, local organizations that advocated for racial and gender equality. Among the clubs' leaders _____ Josephine St. Pierre Ruffin, founder of the Women's Era Club of Boston.

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

A) was

B) were

C) are

D) have been

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CONTINUE

25

Based on genetic evidence, archaeologists have generally agreed that reindeer domestication began in the eleventh century CE. However, since uncovering fragments of a 2,000-year-old reindeer training harness in northern Siberia, _____ may have begun much earlier.

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

A) researcher Robert Losey has argued that domestication

B) researcher Robert Losey's argument is that domestication

C) domestication, researcher Robert Losey has argued,

D) the argument researcher Robert Losey has made is that domestication

26

Hegra is an archaeological site in present-day Saudi Arabia and was the second largest city of the Nabataean Kingdom (fourth century BCE to first century CE). Archaeologist Laila Nehmé recently traveled to Hegra to study its ancient _____ into the rocky outcrops of a vast desert, these burial chambers seem to blend seamlessly with nature.

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

A) tombs. Built

B) tombs, built

C) tombs and built

D) tombs built

27

When external forces are applied to common glass made from silicates, energy builds up around minuscule defects in the material, resulting in fractures. Recently, engineer Erkka Frankberg of Tampere University in Finland used the chemical _____ to make a glassy solid that can withstand higher strain than silicate glass can before fracturing.

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

A) compound, aluminum oxide

B) compound aluminum oxide,

C) compound, aluminum oxide,

D) compound aluminum oxide

28

Etched into Peru's Nazca Desert are line drawings so large that they can only be fully seen from high above. Archaeologists have known of the lines since the 1920s, when a researcher spotted some from a nearby foothill, and they have been studying the markings ever since. _____ archaeologists' efforts are aided by drones that capture high-resolution aerial photographs of the lines.

Which choice completes the text with the most logical transition?

A) Currently,

B) In comparison,

C) Still,

D) However,

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CONTINUE

29

Archaeologist Sue Brunning explains why the seventh-century ship burial site at Sutton Hoo in England was likely the tomb of a king. First, the gold artifacts inside the ship suggest that the person buried with them was a wealthy and respected leader. _____ the massive effort required to bury the ship would likely only have been undertaken for a king.

Which choice completes the text with the most logical transition?

A) Instead,

B) Still,

C) Specifically,

D) Second,

30

The more diverse and wide ranging an animal's behaviors, the larger and more energy demanding the animal's brain tends to be._____from an evolutionary perspective, animals that perform only basic actions should allocate fewer resources to growing and maintaining brain tissue. The specialized subtypes of ants within colonies provide an opportunity to explore this hypothesis.

Which choice completes the text with the most logical transition?

A) Subsequently,

B) Besides,

C) Nevertheless,

D) Thus,

31

When designing costumes for film, American artist Suttirat Larlarb typically custom fits the garments to each actor. _____ for the film *Sunshine*, in which astronauts must reignite a dying Sun, she designed a golden spacesuit and had a factory reproduce it in a few standard sizes; lacking a tailor-made quality, the final creations reflected the ungainliness of actual spacesuits.

Which choice completes the text with the most logical transition?

A) Nevertheless,

B) Thus,

C) Likewise,

D) Moreover,

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CONTINUE

32

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

- Shaun Tan is an Australian author.
- In 2008, he published *Tales from Outer Suburbia*, a book of fifteen short stories.
- The stories describe surreal events occurring in otherwise ordinary suburban neighborhoods.
- In 2018, he published *Tales from the Inner City*, a book of twenty-five short stories.
- The stories describe surreal events occurring in otherwise ordinary urban settings.

The student wants to emphasize a similarity between the two books by Shaun Tan. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) Shaun Tan's book *Tales from Outer Suburbia*, which describes surreal events occurring in otherwise ordinary places, contains fewer short stories than *Tales from the Inner City* does.

B) *Tales from Outer Suburbia* was published in 2008, and *Tales from the Inner City* was published in 2018.

C) Unlike *Tales from the Inner City*, Shaun Tan's book *Tales from Outer Suburbia* is set in suburban neighborhoods.

D) Shaun Tan's books *Tales from Outer Suburbia* and *Tales from the Inner City* both describe surreal events occurring in otherwise ordinary places.

33

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

- The factors that affect clutch size (the number of eggs laid at one time) have been well studied in birds but not in lizards.
- A team led by Shai Meiri of Tel Aviv University investigated which factors influence lizard clutch size.
- Meiri's team obtained clutch-size and habitat data for over 3,900 lizard species and analyzed the data with statistical models.
- Larger clutch size was associated with environments in higher latitudes that have more seasonal change.
- Lizards in higher-latitude environments may lay larger clutches to take advantage of shorter windows of favorable conditions.

The student wants to emphasize the aim of the research study. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) Researchers wanted to know which factors influence lizard egg clutch size because such factors have been well studied in birds but not in lizards.

B) After they obtained data for over 3,900 lizard species, researchers determined that larger clutch size was associated with environments in higher latitudes that have more seasonal change.

C) We now know that lizards in higher-latitude environments may lay larger clutches to take advantage of shorter windows of favorable conditions.

D) Researchers obtained clutch-size and habitat data for over 3,900 lizard species and analyzed the data with statistical models.

STOP

If you finish before time is called, you may check your work on this module only. Do not turn to any other module in the test.

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No Test Material On This Page

Test begins on the next page.

SAT Practice Test 11

Reading and Writing

33 QUESTIONS

DIRECTIONS

The questions in this section address a number of important reading and writing skills. Each question includes one or more passages, which may include a table or graph. Read each passage and question carefully, and then choose the best answer to the question based on the passage(s).

All questions in this section are multiple-choice with four answer choices. Each question has a single best answer.

1

The spacecraft OSIRIS-REx briefly made contact with the asteroid 101955 Bennu in 2020. NASA scientist Daniella DellaGiustina reports that despite facing the unexpected obstacle of a surface mostly covered in boulders, OSIRIS-REx successfully _____ a sample of the surface, gathering pieces of it to bring back to Earth.

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

A) attached

B) collected

C) followed

D) replaced

2

Research conducted by planetary scientist Katarina Miljkovic suggests that the Moon's surface may not accurately _____ early impact events. When the Moon was still forming, its surface was softer, and asteroid or meteoroid impacts would have left less of an impression; thus, evidence of early impacts may no longer be present.

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

A) reflect

B) receive

C) evaluate

D) mimic

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CONTINUE

3

Handedness, a preferential use of either the right or left hand, typically is easy to observe in humans. Because this trait is present but less_____in many other animals, animal-behavior researchers often employ tasks specially designed to reveal individual animals' preferences for a certain hand or paw.

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

A) recognizable

B) intriguing

C) significant

D) useful

4

It is by no means _____ to recognize the influence of Dutch painter Hieronymus Bosch on Ali Banisadr's paintings; indeed, Banisadr himself cites Bosch as an inspiration. However, some scholars have suggested that the ancient Mesopotamian poem *Epic of Gilgamesh* may have had a far greater impact on Banisadr's work.

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

A) substantial

B) satisfying

C) unimportant

D) appropriate

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CONTINUE

5

The following text is adapted from Susan Glaspell's 1912 short story "'Out There.'" An elderly shop owner is looking at a picture that he recently acquired and hopes to sell.

> It did seem that the picture failed to fit in with the rest of the shop. A persuasive young fellow who claimed he was closing out his stock let the old man have it for what he called a song. It was only a little out-of-the-way store which subsisted chiefly on the framing of pictures. The old man looked around at his views of the city, his pictures of cats and dogs, his flaming bits of landscape. "Don't belong in here," he fumed.
>
> And yet the old man was secretly proud of his acquisition. There was a hidden dignity in his scowling as he shuffled about pondering the least ridiculous place for the picture.

Which choice best states the main purpose of the text?

A) To reveal the shop owner's conflicted feelings about the new picture

B) To convey the shop owner's resentment of the person he got the new picture from

C) To describe the items that the shop owner most highly prizes

D) To explain differences between the new picture and other pictures in the shop

6

The following text is from the 1923 poem "Black Finger" by Angelina Weld Grimké, a Black American writer. A cypress is a type of evergreen tree.

> I have just seen a most beautiful thing,
> Slim and still,
> Against a gold, gold sky,
> A straight black cypress,
> Sensitive,
> Exquisite,
> A black finger
> Pointing upwards.
> Why, beautiful still finger, are you black?
> And why are you pointing upwards?

Which choice best describes the overall structure of the text?

A) The speaker assesses a natural phenomenon, then questions the accuracy of her assessment.

B) The speaker describes a distinctive sight in nature, then ponders what meaning to attribute to that sight.

C) The speaker presents an outdoor scene, then considers a human behavior occurring within that scene.

D) The speaker examines her surroundings, then speculates about their influence on her emotional state.

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CONTINUE

7

The following text is from Walt Whitman's 1860 poem "Calamus 24."

> I HEAR it is charged against me that I seek to destroy institutions;
> But really I am neither for nor against institutions
> (What indeed have I in common with them?—Or what with the destruction of them?),
> Only I will establish in the Mannahatta [Manhattan] and in every city of These States, inland and seaboard,
> And in the fields and woods, and above every keel [ship] little or large, that dents the water,
> Without edifices, or rules, or trustees, or any argument,
> The institution of the dear love of comrades.

Which choice best describes the overall structure of the text?

A) The speaker questions an increasingly prevalent attitude, then summarizes his worldview.

B) The speaker regrets his isolation from others, then predicts a profound change in society.

C) The speaker concedes his personal shortcomings, then boasts of his many achievements.

D) The speaker addresses a criticism leveled against him, then announces a grand ambition of his.

8

The mimosa tree evolved in East Asia, where the beetle *Bruchidius terrenus* preys on its seeds. In 1785, mimosa trees were introduced to North America, far from any *B. terrenus*. But evolutionary links between predators and their prey can persist across centuries and continents. Around 2001, *B. terrenus* was introduced in southeastern North America near where botanist Shu-Mei Chang and colleagues had been monitoring mimosa trees. Within a year, 93 percent of the trees had been attacked by the beetles.

Which choice best describes the function of the third sentence in the overall structure of the text?

A) It states the hypothesis that Chang and colleagues had set out to investigate using mimosa trees and *B. terrenus*.

B) It presents a generalization that is exemplified by the discussion of the mimosa trees and *B. terrenus*.

C) It offers an alternative explanation for the findings of Chang and colleagues.

D) It provides context that clarifies why the species mentioned spread to new locations.

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CONTINUE

9

Text 1
Conventional wisdom long held that human social systems evolved in stages, beginning with hunter-gatherers forming small bands of members with roughly equal status. The shift to agriculture about 12,000 years ago sparked population growth that led to the emergence of groups with hierarchical structures: associations of clans first, then chiefdoms, and finally, bureaucratic states.

Text 2
In a 2021 book, anthropologist David Graeber and archaeologist David Wengrow maintain that humans have always been socially flexible, alternately forming systems based on hierarchy and collective ones with decentralized leadership. The authors point to evidence that as far back as 50,000 years ago some hunter-gatherers adjusted their social structures seasonally, at times dispersing in small groups but also assembling into communities that included esteemed individuals.

Based on the texts, how would Graeber and Wengrow (Text 2) most likely respond to the "conventional wisdom" presented in Text 1?

A) By conceding the importance of hierarchical systems but asserting the greater significance of decentralized collective societies

B) By disputing the idea that developments in social structures have followed a linear progression through distinct stages

C) By acknowledging that hierarchical roles likely weren't a part of social systems before the rise of agriculture

D) By challenging the assumption that groupings of hunter-gatherers were among the earliest forms of social structure

10

The following text is adapted from Frances Hodgson Burnett's 1911 novel *The Secret Garden*. Mary, a young girl, recently found an overgrown hidden garden.

> Mary was an odd, determined little person, and now she had something interesting to be determined about, she was very much absorbed, indeed. She worked and dug and pulled up weeds steadily, only becoming more pleased with her work every hour instead of tiring of it. It seemed to her like a fascinating sort of play.

Which choice best states the main idea of the text?

A) Mary hides in the garden to avoid doing her chores.

B) Mary is getting bored with pulling up so many weeds in the garden.

C) Mary is clearing out the garden to create a space to play.

D) Mary feels very satisfied when she's taking care of the garden.

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CONTINUE

11

The following text is from Ezra Pound's 1909 poem "Hymn III," based on the work of Marcantonio Flaminio.

As a fragile and lovely flower unfolds its gleaming foliage on the breast of the fostering earth, if the dew and the rain draw it forth;
So doth my tender mind flourish, if it be fed with the sweet dew of the fostering spirit,
Lacking this, it beginneth straightway to languish, even as a floweret born upon dry earth, if the dew and the rain tend it not.

Based on the text, in what way is the human mind like a flower?

A) It becomes increasingly vigorous with the passage of time.

B) It draws strength from changes in the weather.

C) It requires proper nourishment in order to thrive.

D) It perseveres despite challenging circumstances.

12

The following text is adapted from Jack London's 1903 novel *The Call of the Wild*. Buck is a sled dog living with John Thornton in Yukon, Canada.

> Thornton alone held [Buck]. The rest of mankind was as nothing. Chance travellers might praise or pet him; but he was cold under it all, and from a too demonstrative man he would get up and walk away. When Thornton's partners, Hans and Pete, arrived on the long-expected raft, Buck refused to notice them till he learned they were close to Thornton; after that he tolerated them in a passive sort of way, accepting favors from them as though he favored them by accepting.

Which choice best states the main idea of the text?

A) Buck has become less social since he began living with Thornton.

B) Buck mistrusts humans and does his best to avoid them.

C) Buck has been especially well liked by most of Thornton's friends.

D) Buck holds Thornton in higher regard than any other person.

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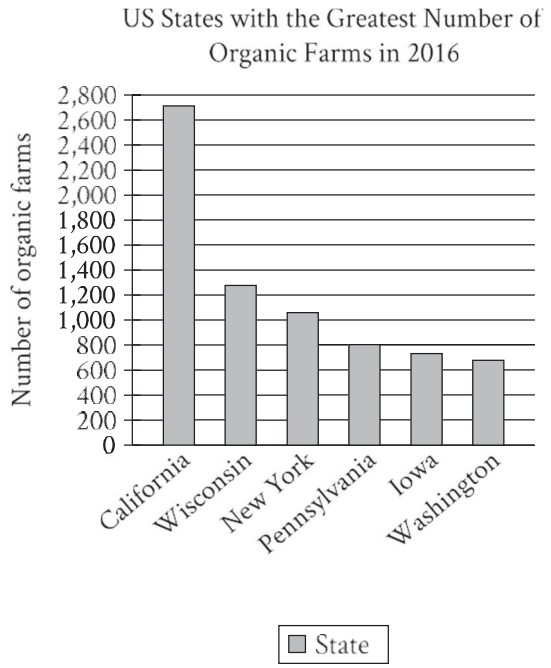
CONTINUE



Organic farming is a method of growing food that tries to reduce environmental harm by using natural forms of pest control and avoiding fertilizers made with synthetic materials. Organic farms are still a small fraction of the total farms in the United States, but they have been becoming more popular. According to the US Department of Agriculture, in 2016 California had between 2,600 and 2,800 organic farms and _____

Which choice most effectively uses data from the graph to complete the text?

A) Washington had between 600 and 800 organic farms.

B) New York had fewer than 800 organic farms.

C) Wisconsin and Iowa each had between 1,200 and 1,400 organic farms.

D) Pennsylvania had more than 1,200 organic farms.

Biologist Valentina Gómez-Bahamón and her team have investigated two subspecies of the fork-tailed flycatcher bird that live in the same region in Colombia, but one subspecies migrates south for part of the year, and the other doesn't. The researchers found that, due to slight differences in feather shape, the feathers of migratory forked-tailed flycatcher males make a sound during flight that is higher pitched than that made by the feathers of nonmigratory males. The researchers hypothesize that fork-tailed flycatcher females are attracted to the specific sound made by the males of their own subspecies, and that over time the females' preference will drive further genetic and anatomical divergence between the subspecies.

Which finding, if true, would most directly support Gómez-Bahamón and her team's hypothesis?

A) The feathers located on the wings of the migratory fork-tailed flycatchers have a narrower shape than those of the nonmigratory birds, which allows them to fly long distances.

B) Over several generations, the sound made by the feathers of migratory male fork-tailed flycatchers grows progressively higher pitched relative to that made by the feathers of nonmigratory males.

C) Fork-tailed flycatchers communicate different messages to each other depending on whether their feathers create high-pitched or low-pitched sounds.

D) The breeding habits of the migratory and nonmigratory fork-tailed flycatchers remained generally the same over several generations.

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CONTINUE

15

Ablation Rates for Three Elements in Cosmic Dust, by Dust Source

Element	SPC	AST	HTC	OCC
iron	20%	28%	90%	98%
potassium	44%	74%	97%	100%
sodium	45%	75%	99%	100%

Earth's atmosphere is bombarded by cosmic dust originating from several sources: short-period comets (SPCs), particles from the asteroid belt (ASTs), Halley-type comets (HTCs), and Oort cloud comets (OCCs). Some of the dust's material vaporizes in the atmosphere in a process called ablation, and the faster the particles move, the higher the rate of ablation. Astrophysicist Juan Diego Carrillo-Sánchez led a team that calculated average ablation rates for elements in the dust (such as iron and potassium) and showed that material in slower-moving SPC or AST dust has a lower rate than the same material in faster-moving HTC or OCC dust. For example, whereas the average ablation rate for iron from AST dust is 28%, the average rate for _____

Which choice most effectively uses data from the table to complete the example?

A) iron from SPC dust is 20%.

B) sodium from OCC dust is 100%.

C) iron from HTC dust is 90%.

D) sodium from AST dust is 75%.

16

Art collectives, like the United States- and Vietnam-based collective The Propeller Group or Cuba's Los Carpinteros, are groups of artists who agree to work together: perhaps for stylistic reasons, or to advance certain shared political ideals, or to help mitigate the costs of supplies and studio space. Regardless of the reasons, art collectives usually involve some collaboration among the artists. Based on a recent series of interviews with various art collectives, an arts journalist claims that this can be difficult for artists who are often used to having sole control over their work.

Which quotation from the interviews best illustrates the journalist's claim?

A) "The first collective I joined included many amazingly talented artists, and we enjoyed each other's company, but because we had a hard time sharing credit and responsibility for our work, the collective didn't last."

B) "We work together, but that doesn't mean that individual projects are equally the work of all of us. Many of our projects are primarily the responsibility of whoever originally proposed the work to the group."

C) "Having worked as a member of a collective for several years, it's sometimes hard to recall what it was like to work alone without the collective's support. But that support encourages my individual expression rather than limits it."

D) "Sometimes an artist from outside the collective will choose to collaborate with us on a project, but all of those projects fit within the larger themes of the work the collective does on its own."

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CONTINUE

Effects of Mycorrhizal Fungi on 3 Plant Species

Plant species	Mycorrhizal host	Average mass of plants grown in soil containing mycorrhizal fungi (in grams)	Average mass of plants grown in soil treated to kill fungi (in grams)
Corn	yes	15.1	3.8
Marigold	yes	10.2	2.4
Broccoli	no	7.5	7

Mycorrhizal fungi in soil benefits many plants, substantially increasing the mass of some. A student conducted an experiment to illustrate this effect. The student chose three plant species for the experiment, including two that are mycorrhizal hosts (species known to benefit from mycorrhizal fungi) and one nonmycorrhizal species (a species that doesn't benefit from and may even be harmed by mycorrhizal fungi). The student then grew several plants from each species both in soil containing mycorrhizal fungi and in soil that had been treated to kill mycorrhizal and other fungi. After several weeks, the student measured the plants' average mass and was surprised to discover that _____

Which choice most effectively uses data from the table to complete the statement?

A) broccoli grown in soil containing mycorrhizal fungi had a slightly higher average mass than broccoli grown in soil that had been treated to kill fungi.

B) corn grown in soil containing mycorrhizal fungi had a higher average mass than broccoli grown in soil containing mycorrhizal fungi.

C) marigolds grown in soil containing mycorrhizal fungi had a much higher average mass than marigolds grown in soil that had been treated to kill fungi.

D) corn had the highest average mass of all three species grown in soil that had been treated to kill fungi, while marigolds had the lowest.

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CONTINUE

18

Several artworks found among the ruins of the ancient Roman city of Pompeii depict a female figure fishing with a cupid nearby. Some scholars have asserted that the figure is the goddess Venus, since she is known to have been linked with cupids in Roman culture, but University of Leicester archaeologist Carla Brain suggests that cupids may have also been associated with fishing generally. The fact that a cupid is shown near the female figure, therefore, _____

Which choice most logically completes the text?

A) is not conclusive evidence that the figure is Venus.

B) suggests that Venus was often depicted fishing.

C) eliminates the possibility that the figure is Venus.

D) would be difficult to account for if the figure is not Venus.

19

Literary agents estimate that more than half of all nonfiction books credited to a celebrity or other public figure are in fact written by ghostwriters, professional authors who are paid to write other _____ but whose names never appear on book covers.

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

A) people's stories

B) peoples story's

C) peoples stories

D) people's story's

20

Like other amphibians, the wood frog (*Rana sylvatica*) is unable to generate its own heat, so during periods of subfreezing temperatures, it _____ by producing large amounts of glucose, a sugar that helps prevent damaging ice from forming inside its cells.

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

A) had survived

B) survived

C) would survive

D) survives

21

After a spate of illnesses as a child, Wilma Rudolph was told she might never walk again. Defying all odds, Rudolph didn't just walk, she_____the 1960 Summer Olympics in Rome, she won both the 100- and 200-meter dashes and clinched first place for her team in the 4 ×100-meter relay, becoming the first US woman to win three gold medals in a single Olympics.

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

A) ran—fast—during

B) ran—fast during

C) ran—fast, during

D) ran—fast. During

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CONTINUE

In many of her landscape paintings from the 1970s and 1980s, Lebanese American artist Etel Adnan worked to capture the essence of California's fog-shrouded Mount Tamalpais region through abstraction, using splotches of color to represent the area's features. Interestingly, the triangle representing the mountain itself _____ among the few defined figures in her paintings.

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

A) are

B) have been

C) were

D) is

23

Seneca sculptor Marie Watt's blanket art comes in a range of shapes and sizes. In 2004, Watt sewed strips of blankets together to craft a 10-by-13-inch _____ in 2014, she arranged folded blankets into two large stacks and then cast them in bronze, creating two curving 18-foot-tall blue-bronze pillars.

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

A) sampler later,

B) sampler;

C) sampler,

D) sampler, later,

African American Percy Julian was a scientist and entrepreneur whose work helped people around the world to see. Named in 1999 as one of the greatest achievements by a US chemist in the past hundred years, _____ led to the first mass-produced treatment for glaucoma.

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

A) Julian synthesized the alkaloid physostigmine in 1935; it

B) in 1935 Julian synthesized the alkaloid physostigmine, which

C) Julian's 1935 synthesis of the alkaloid physostigmine

D) the alkaloid physostigmine was synthesized by Julian in 1935 and

25

The Arctic-Alpine Botanic Garden in Norway and the Jardim Botânico of Rio de Janeiro in Brazil are two of many botanical gardens around the world dedicated to growing diverse plant _____ fostering scientific research; and educating the public about plant conservation.

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

A) species, both native and nonnative,

B) species, both native and nonnative;

C) species; both native and nonnative,

D) species both native and nonnative,

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CONTINUE

26

Sociologist Alton Okinaka sits on the review board tasked with adding new sites to the Hawai‘i Register of Historic Places, which includes Pi‘ilanihale Heiau and the ‘Ōpaeka‘a Road Bridge. Okinaka doesn't make such decisions _____ all historical designations must be approved by a group of nine other experts from the fields of architecture, archaeology, history, and Hawaiian culture.

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

A) single-handedly, however;
B) single-handedly; however,
C) single-handedly, however,
D) single-handedly however

27

In 1968, US Congressman John Conyers introduced a bill to establish a national holiday in honor of Dr. Martin Luther King Jr. The bill didn't make it to a vote, but Conyers was determined. He teamed up with Shirley Chisholm, the first Black woman to be elected to Congress, and they resubmitted the bill every session for the next fifteen years._____in 1983, the bill passed.

Which choice completes the text with the most logical transition?

A) Instead,
B) Likewise,
C) Finally,
D) Additionally,

28

Geoscientists have long considered Hawaii's Mauna Loa volcano to be Earth's largest shield volcano by volume, measuring approximately 74,000 cubic kilometers. _____ according to a 2020 study by local geoscientist Michael Garcia, Hawaii's Pūhāhonu shield volcano is significantly larger, boasting a volume of about 148,000 cubic kilometers.

Which choice completes the text with the most logical transition?

A) Secondly,
B) Consequently,
C) Moreover,
D) However,

29

Samuel Coleridge-Taylor was a prominent classical music composer from England who toured the US three times in the early 1900s. The child of a West African father and an English mother, Coleridge-Taylor emphasized his mixed-race ancestry. For example, he referred to himself as Anglo-African. _____ he incorporated the sounds of traditional African music into his classical music compositions.

Which choice completes the text with the most logical transition?

A) In addition,
B) Actually,
C) However,
D) Regardless,

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CONTINUE

30

In 2019, researcher Patricia Jurado Gonzalez and food historian Nawal Nasrallah prepared a stew from a 4,000-year-old recipe found on a Mesopotamian clay tablet. When they tasted the dish, known as *pašrūtum* ("unwinding"), they found that it had a mild taste and inspired a sense of calm._____the researchers, knowing that dishes were sometimes named after their intended effects, theorized that the dish's name, "unwinding," referred to its function: to help ancient diners relax.

Which choice completes the text with the most logical transition?

A) Therefore,

B) Alternately,

C) Nevertheless,

D) Likewise,

31

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

- Chemical leavening agents cause carbon dioxide to be released within a liquid batter, making the batter rise as it bakes.
- Baking soda and baking powder are chemical leavening agents.
- Baking soda is pure sodium bicarbonate.
- To produce carbon dioxide, baking soda needs to be mixed with liquid and an acidic ingredient such as honey.
- Baking powder is a mixture of sodium bicarbonate and an acid.
- To produce carbon dioxide, baking powder needs to be mixed with liquid but not with an acidic ingredient.

The student wants to emphasize a difference between baking soda and baking powder. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) To make batters rise, bakers use chemical leavening agents such as baking soda and baking powder.

B) Baking soda and baking powder are chemical leavening agents that, when mixed with other ingredients, cause carbon dioxide to be released within a batter.

C) Baking soda is pure sodium bicarbonate, and honey is a type of acidic ingredient.

D) To produce carbon dioxide within a liquid batter, baking soda needs to be mixed with an acidic ingredient, whereas baking powder does not.

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CONTINUE

32

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

- Soo Sunny Park is a Korean American artist who uses light as her primary medium of expression.
- She created her work *Unwoven Light* in 2013.
- *Unwoven Light* featured a chain-link fence fitted with iridescent plexiglass tiles.
- When light passed through the fence, colorful prisms formed.

The student wants to describe *Unwoven Light* to an audience unfamiliar with Soo Sunny Park. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) Park's 2013 installation *Unwoven Light*, which included a chain-link fence and iridescent tiles made from plexiglass, featured light as its primary medium of expression.

B) Korean American light artist Soo Sunny Park created *Unwoven Light* in 2013.

C) The chain-link fence in Soo Sunny Park's *Unwoven Light* was fitted with tiles made from iridescent plexiglass.

D) In *Unwoven Light*, a 2013 work by Korean American artist Soo Sunny Park, light formed colorful prisms as it passed through a fence Park had fitted with iridescent tiles.

33

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

- Cambodia's Angkor Wat was built in the 1100s to honor the Hindu god Vishnu.
- It has been a Buddhist temple since the sixteenth century.
- Decorrelation stretch analysis is a novel digital imaging technique that enhances the contrast between colors in a photograph.
- Archaeologist Noel Hidalgo Tan applied decorrelation stretch analysis to photographs he had taken of Angkor Wat's plaster walls.
- Tan's analysis revealed hundreds of images unknown to researchers.

The student wants to present Tan's research to an audience unfamiliar with Angkor Wat. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) Tan photographed Angkor Wat's plaster walls and then applied decorrelation stretch analysis to the photographs.

B) Decorrelation stretch analysis is a novel digital imaging technique that Tan used to enhance the contrast between colors in a photograph.

C) Using a novel digital imaging technique, Tan revealed hundreds of images hidden on the walls of Angkor Wat, a Cambodian temple.

D) Built to honor a Hindu god before becoming a Buddhist temple, Cambodia's Angkor Wat concealed hundreds of images on its plaster walls.

STOP

If you finish before time is called, you may check your work on this module only. Do not turn to any other module in the test.

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SAT Practice Test 12

Reading and Writing

33 QUESTIONS

DIRECTIONS

The questions in this section address a number of important reading and writing skills. Each question includes one or more passages, which may include a table or graph. Read each passage and question carefully, and then choose the best answer to the question based on the passage(s).

All questions in this section are multiple-choice with four answer choices. Each question has a single best answer.

1

The fashion resale market, in which consumers purchase secondhand clothing from stores and online sellers, generated nearly $30 billion globally in 2019. Expecting to see continued growth, some analysts _____ that revenues will more than double by 2028.

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

A) produced

B) denied

C) worried

D) predicted

2

Artificially delivering biomolecules to plant cells is an important component of protecting plants from pathogens, but it is difficult to transmit biomolecules through the layers of the plant cell wall. Markita del Carpio Landry and her colleagues have shown that it may be possible to _____ this problem by transmitting molecules through carbon nanotubes, which can cross cell walls.

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

A) conceptualize

B) neglect

C) illustrate

D) overcome

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3

Particle physicists like Ayana Holloway Arce and Aida El-Khadra spend much of their time _____ what is invisible to the naked eye: using sophisticated technology, they closely examine the behavior of subatomic particles, the smallest detectable parts of matter.

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

A) selecting
B) inspecting
C) creating
D) deciding

4

Anthropologist Kristian J. Carlson and colleagues examined the fossilized clavicle and shoulder bones of a 3.6-million-year-old early hominin known as "Little Foot." They found that these bones were _____ the clavicle and shoulder bones of modern apes that are frequent climbers, such as gorillas and chimpanzees, suggesting that Little Foot had adapted to life in the trees.

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

A) surpassed by
B) comparable to
C) independent of
D) obtained from

5

Rydra Wong, the protagonist of Samuel R. Delany's 1966 novel *Babel-17*, is a poet, an occupation which, in Delany's work, is not_____: nearly a dozen of the characters that populate his novels are poets or writers.

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

A) infallible
B) atypical
C) lucrative
D) tedious

6

For a 2020 exhibition, photographer and neurobiologist Okunola Jeyifous _____ a series of new images based on a series of alphabet posters from the 1970s known as the "Black ABCs," which featured Black children from Chicago. Jeyifous photographed the now-adult models and layered the photos over magnified images of the models' cells, resulting in what he called "micro and macro portraiture."

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

A) validated
B) created
C) challenged
D) restored

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CONTINUE

7

In addition to being an accomplished psychologist himself, Francis Cecil Sumner was a _____ increasing the opportunity for Black students to study psychology, helping to found the psychology department at Howard University, a historically Black university, in 1930.

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

A) proponent of

B) supplement to

C) beneficiary of

D) distraction for

8

Whether the reign of a French monarch such as Hugh Capet or Henry I was historically consequential or relatively uneventful, its trajectory was shaped by questions of legitimacy and therefore cannot be understood without a corollary understanding of the factors that allowed the monarch to _____ his right to hold the throne.

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

A) reciprocate

B) annotate

C) buttress

D) disengage

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CONTINUE

9

Some bird species don't raise their own chicks. Instead, adult females lay their eggs in other nests, next to another bird species' own eggs. Female cuckoos have been seen quickly laying eggs in the nests of other bird species when those birds are out looking for food. After the eggs hatch, the noncuckoo parents will typically raise the cuckoo chicks as if they were their own offspring, even if the cuckoos look very different from the other chicks.

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

A) It introduces a physical feature of female cuckoos that is described later in the text.

B) It describes the appearance of the cuckoo nests mentioned earlier in the text.

C) It offers a detail about how female cuckoos carry out the behavior discussed in the text.

D) It explains how other birds react to the female cuckoo behavior discussed in the text.

10

Cats can judge unseen people's positions in space by the sound of their voices and thus react with surprise when the same person calls to them from two different locations in a short span of time. Saho Takagi and colleagues reached this conclusion by measuring cats' levels of surprise based on their ear and head movements while the cats heard recordings of their owners' voices from two speakers spaced far apart. Cats exhibited a low level of surprise when owners' voices were played twice from the same speaker, but they showed a high level of surprise when the voice was played once each from the two different speakers.

According to the text, how did the researchers determine the level of surprise displayed by the cats in the study?

A) They watched how each cat moved its ears and head.

B) They examined how each cat reacted to the voice of a stranger.

C) They studied how each cat physically interacted with its owner.

D) They tracked how each cat moved around the room.

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11

A student performs an experiment testing her hypothesis that a slightly acidic soil environment is more beneficial for the growth of the plant *Brassica rapa parachinensis* (a vegetable commonly known as choy sum) than a neutral soil environment. She plants sixteen seeds of choy sum in a mixture of equal amounts of coffee grounds (which are highly acidic) and potting soil and another sixteen seeds in potting soil without coffee grounds as the control for the experiment. The two groups of seeds were exposed to the same growing conditions and monitored for three weeks.

Which finding, if true, would most directly weaken the student's hypothesis?

A) The choy sum planted in the soil without coffee grounds were significantly taller at the end of the experiment than the choy sum planted in the mixture of soil and coffee grounds.

B) The choy sum grown in the soil without coffee grounds weighed significantly less at the end of the experiment than the choy sum grown in the mixture of soil and coffee grounds.

C) The choy sum seeds planted in the soil without coffee grounds sprouted significantly later in the experiment than did the seeds planted in the mixture of soil and coffee grounds.

D) Significantly fewer of the choy sum seeds planted in the soil without coffee grounds sprouted plants than did the seeds planted in the mixture of soil and coffee grounds.

12

"The Young Girl" is a 1920 short story by Katherine Mansfield. In the story, the narrator takes an unnamed seventeen-year-old girl and her younger brother out for a meal. In describing the teenager, Mansfield frequently contrasts the character's pleasant appearance with her unpleasant attitude, as when Mansfield writes of the teenager, _____

Which quotation from "The Young Girl" most effectively illustrates the claim?

A) "I heard her murmur, 'I can't bear flowers on a table.' They had evidently been giving her intense pain, for she positively closed her eyes as I moved them away."

B) "While we waited she took out a little, gold powder-box with a mirror in the lid, shook the poor little puff as though she loathed it, and dabbed her lovely nose."

C) "I saw, after that, she couldn't stand this place a moment longer, and, indeed, she jumped up and turned away while I went through the vulgar act of paying for the tea."

D) "She didn't even take her gloves off. She lowered her eyes and drummed on the table. When a faint violin sounded she winced and bit her lip again. Silence."

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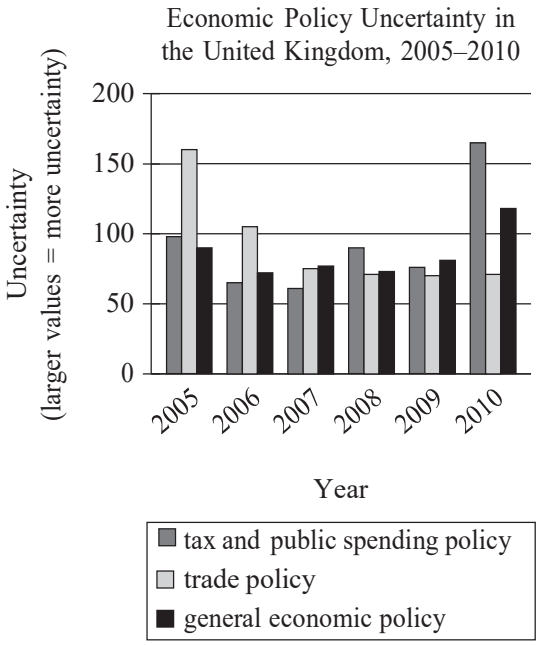
CONTINUE

13



High levels of public uncertainty about which economic policies a country will adopt can make planning difficult for businesses, but measures of such uncertainty have not tended to be very detailed. Recently, however, economist Sandile Hlatshwayo analyzed trends in news reports to derive measures not only for general economic policy uncertainty but also for uncertainty related to specific areas of economic policy, like tax or trade policy. One revelation of her work is that a general measure may not fully reflect uncertainty about specific areas of policy, as in the case of the United Kingdom, where general economic policy uncertainty _____

Which choice most effectively uses data from the graph to illustrate the claim?

A) aligned closely with uncertainty about tax and public spending policy in 2005 but differed from uncertainty about tax and public spending policy by a large amount in 2009.

B) was substantially lower than uncertainty about tax and public spending policy each year from 2005 to 2010.

C) reached its highest level between 2005 and 2010 in the same year that uncertainty about trade policy and tax and public spending policy reached their lowest levels.

D) was substantially lower than uncertainty about trade policy in 2005 and substantially higher than uncertainty about trade policy in 2010.

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CONTINUE

14

Linguist Deborah Tannen has cautioned against framing contentious issues in terms of two highly competitive perspectives, such as pro versus con. According to Tannen, this debate-driven approach can strip issues of their complexity and, when used in front of an audience, can be less informative than the presentation of multiple perspectives in a noncompetitive format. To test Tannen's hypothesis, students conducted a study in which they showed participants one of three different versions of local news commentary about the same issue. Each version featured a debate between two commentators with opposing views, a panel of three commentators with various views, or a single commentator.

Which finding from the students' study, if true, would most strongly support Tannen's hypothesis?

A) On average, participants perceived commentators in the debate as more knowledgeable about the issue than commentators in the panel.

B) On average, participants perceived commentators in the panel as more knowledgeable about the issue than the single commentator.

C) On average, participants who watched the panel correctly answered more questions about the issue than those who watched the debate or the single commentator did.

D) On average, participants who watched the single commentator correctly answered more questions about the issue than those who watched the debate did.

15

King Lear is a circa 1606 play by William Shakespeare. In the play, the character of King Lear attempts to test his three daughters' devotion to him. He later expresses regret for his actions, as is evident when he _____

Which choice most effectively uses a quotation from *King Lear* to illustrate the claim?

A) says of himself, "I am a man / more sinned against than sinning."

B) says during a growing storm, "This tempest will not give me leave to ponder / On things would hurt me more."

C) says to himself while striking his head, "Beat at this gate that let thy folly in / And thy dear judgement out!"

D) says of himself, "I will do such things— / What they are yet, I know not; but they shall be / The terrors of the earth!"

16

Many of William Shakespeare's tragedies address broad themes that still appeal to today's audiences. For instance, *Romeo and Juliet*, which is set in the Italy of Shakespeare's time, tackles the themes of parents versus children and love versus hate, and the play continues to be read and produced widely around the world. But understanding Shakespeare's so-called history plays can require a knowledge of several centuries of English history. Consequently, _____

Which choice most logically completes the text?

A) many theatergoers and readers today are likely to find Shakespeare's history plays less engaging than the tragedies.

B) some of Shakespeare's tragedies are more relevant to today's audiences than twentieth-century plays.

C) *Romeo and Juliet* is the most thematically accessible of all Shakespeare's tragedies.

D) experts in English history tend to prefer Shakespeare's history plays to his other works.

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CONTINUE

17

Ancestral Puebloans, the civilization from which present-day Pueblo tribes descended, emerged as early as 1500 B.C.E. in an area of what is now the southwestern United States and dispersed suddenly in the late 1200s C.E., abandoning established villages with systems for farming crops and turkeys. Recent analysis comparing turkey remains at Mesa Verde, one such village in southern Colorado, to samples from modern turkey populations in the Rio Grande Valley of north central New Mexico determined that the latter birds descended in part from turkeys cultivated at Mesa Verde, with shared genetic markers appearing only after 1280. Thus, researchers concluded that _____

Which choice most logically completes the text?

A) conditions of the terrains in the Rio Grande Valley and Mesa Verde had greater similarities in the past than they do today.

B) some Ancestral Puebloans migrated to the Rio Grande Valley in the late 1200s and carried farming practices with them.

C) Indigenous peoples living in the Rio Grande Valley primarily planted crops and did not cultivate turkeys before 1280.

D) the Ancestral Puebloans of Mesa Verde likely adopted the farming practices of Indigenous peoples living in other regions.

18

One challenge when researching whether holding elected office changes a person's behavior is the problem of ensuring that the experiment has an appropriate control group. To reveal the effect of holding office, researchers must compare people who hold elected office with people who do not hold office but who are otherwise similar to the office-holders. Since researchers are unable to control which politicians win elections, they therefore _____

Which choice most logically completes the text?

A) struggle to find valid data about the behavior of politicians who do not currently hold office.

B) can only conduct valid studies with people who have previously held office rather than people who presently hold office.

C) should select a control group of people who differ from office holders in several significant ways.

D) will find it difficult to identify a group of people who can function as an appropriate control group for their studies.

19

In his groundbreaking book *Bengali Harlem and the Lost Histories of South Asian America*, Vivek Bald uses newspaper articles, census records, ships' logs, and memoirs to tell the_____who made New York City their home in the early twentieth century.

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

A) story's of the South Asian immigrants

B) story's of the South Asian immigrants'

C) stories of the South Asian immigrants

D) stories' of the South Asian immigrant's

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CONTINUE

20

In her two major series "Memory Test" and "Autobiography," painter Howardena Pindell explored themes _____ healing, self-discovery, and memory by cutting and sewing back together pieces of canvas and inserting personal artifacts, such as postcards, into some of the paintings.

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

A) of
B) of,
C) of—
D) of:

21

Both Sona Charaipotra, an Indian American, and Dhonielle Clayton, an African American, grew up frustrated by the lack of diverse characters in books for young people. In 2011, these two writers joined forces to found CAKE Literary, a book packaging _____ specializes in the creation and promotion of stories told from diverse perspectives for children and young adults.

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

A) company,
B) company that
C) company
D) company, that

22

A study led by scientist Rebecca Kirby at the University of Wisconsin–Madison found that black bears that eat human food before hibernation have increased levels of a rare carbon isotope, _____ due to the higher ^{13}C levels in corn and cane sugar. Bears with these elevated levels were also found to have much shorter hibernation periods on average.

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

A) carbon-13, (^{13}C)
B) carbon-13 (^{13}C)
C) carbon-13, (^{13}C),
D) carbon-13 (^{13}C),

23

In 2010, archaeologist Noel Hidalgo Tan was visiting the twelfth-century temple of Angkor Wat in Cambodia when he noticed markings of red paint on the temple _____ the help of digital imaging techniques, he discovered the markings to be part of an elaborate mural containing over 200 paintings.

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

A) walls, with
B) walls with
C) walls so with
D) walls. With

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CONTINUE

24

Working from an earlier discovery of Charpentier's, chemists Emmanuelle Charpentier and Jennifer Doudna—winners of the 2020 Nobel Prize in Chemistry—re-created and then reprogrammed the so-called "genetic scissors" of a species of DNA-cleaving bacteria _____ a tool that is revolutionizing the field of gene technology.

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

A) to forge

B) forging

C) forged

D) and forging

25

In 2016, engineer Vanessa Galvez oversaw the installation of 164 bioswales, vegetated channels designed to absorb and divert stormwater, along the streets of Queens, New York. By reducing the runoff flowing into city sewers, _____

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

A) the mitigation of both street flooding and the resulting pollution of nearby waterways has been achieved by bioswales.

B) the bioswales have mitigated both street flooding and the resulting pollution of nearby waterways.

C) the bioswales' mitigation of both street flooding and the resulting pollution of nearby waterways has been achieved.

D) both street flooding and the resulting pollution of nearby waterways have been mitigated by bioswales.

26

A study published by Rice University geoscientist Ming Tang in 2019 offers a new explanation for the origin of Earth's _____ structures called arcs, towering ridges that form when a dense oceanic plate subducts under a less dense continental plate, melts in the mantle below, and then rises and bursts through the continental crust above.

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

A) continents geological

B) continents: geological

C) continents; geological

D) continents. Geological

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CONTINUE

27

During a 2021 launch, Rocket Labs' Electron rocket experienced an unexpected failure: its second-stage booster shut down suddenly after ignition. _____ instead of downplaying the incident, Rocket Labs' CEO publicly acknowledged what happened and apologized for the loss of the rocket's payload, which had consisted of two satellites.

Which choice completes the text with the most logical transition?

A) Afterward,

B) Additionally,

C) Indeed,

D) Similarly,

28

When soil becomes contaminated by toxic metals, it can be removed from the ground and disposed of in a landfill._____contaminated soil can be detoxified via phytoremediation: plants that can withstand high concentrations of metals absorb the pollutants and store them in their shoots, which are then cut off and safely disposed of, preserving the health of the plants.

Which choice completes the text with the most logical transition?

A) Alternatively,

B) Specifically,

C) For example,

D) As a result,

29

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

- The calendar used by most of the world (the Gregorian calendar) has 365 days.
- Because 365 days can't be divided evenly by 7 (the number of days in a week), calendar dates fall on a different day of the week each year.
- The Hanke-Henry permanent calendar, developed as an alternative to the Gregorian calendar, has 364 days.
- Because 364 can be divided evenly by 7, calendar dates fall on the same day of the week each year, which supports more predictable scheduling.

The student wants to explain an advantage of the Hanke-Henry calendar. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) The Gregorian calendar has 365 days, which is one day longer than the Hanke-Henry permanent calendar.

B) Adopting the Hanke-Henry permanent calendar would help solve a problem with the Gregorian calendar.

C) Designed so calendar dates would occur on the same day of the week each year, the Hanke-Henry calendar supports more predictable scheduling than does the Gregorian calendar.

D) The Hanke-Henry permanent calendar was developed as an alternative to the Gregorian calendar, which is currently the most-used calendar in the world.

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30

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

- The Haudenosaunee Confederacy is a nearly 1,000-year-old alliance of six Native nations in the northeastern US.
- The members are bound by a centuries-old agreement known as the Great Law of Peace.
- Historian Bruce Johansen is one of several scholars who believe that the principles of the Great Law of Peace influenced the US Constitution.
- This theory is called the influence theory.
- Johansen cites the fact that Benjamin Franklin and Thomas Jefferson both studied the Haudenosaunee Confederacy.

The student wants to present the influence theory to an audience unfamiliar with the Haudenosaunee Confederacy. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) Historian Bruce Johansen believes that the Great Law of Peace was very influential.

B) The influence theory is supported by the fact that Benjamin Franklin and Thomas Jefferson both studied the Haudenosaunee Confederacy.

C) The influence theory holds that the principles of the Great Law of Peace, a centuries-old agreement binding six Native nations in the northeastern US, influenced the US Constitution.

D) Native people, including the members of the Haudenosaunee Confederacy, influenced the founding of the US in many different ways.

31

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

- In 1999, astronomer Todd Henry studied the differences in surface temperature between the Sun and nearby stars.
- His team mapped all stars within 10 parsecs (approximately 200 trillion miles) of the Sun.
- The surface temperature of the Sun is around 9,800°F, which classifies it as a G star.
- 327 of the 357 stars in the study were classified as K or M stars, with surface temperatures under 8,900°F (cooler than the Sun).
- 11 of the 357 stars in the study were classified as A or F stars, with surface temperatures greater than 10,300°F (hotter than the Sun).

The student wants to emphasize how hot the Sun is relative to nearby stars. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) At around 9,800°F, which classifies it as a G star, the Sun is hotter than most but not all of the stars within 10 parsecs of it.

B) Astronomer Todd Henry determined that the Sun, at around 9,800°F, is a G star, and several other stars within a 10-parsec range are A or F stars.

C) Of the 357 stars within ten parsecs of the Sun, 327 are classified as K or M stars, with surface temperatures under 8,900°F.

D) While most of the stars within 10 parsecs of the Sun are classified as K, M, A, or F stars, the Sun is classified as a G star due to its surface temperature of 9,800°F.

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CONTINUE

32

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

- The *Atlantic Monthly* magazine was first published in 1857.
- The magazine focused on politics, art, and literature.
- In 2019, historian Cathryn Halverson published the book *Faraway Women and the "Atlantic Monthly."*
- Its subject is female authors whose autobiographies appeared in the magazine in the early 1900s.
- One of the authors discussed is Juanita Harrison.

The student wants to introduce Cathryn Halverson's book to an audience already familiar with the *Atlantic Monthly*. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) Cathryn Halverson's *Faraway Women and the "Atlantic Monthly"* discusses female authors whose autobiographies appeared in the magazine in the early 1900s.

B) A magazine called the *Atlantic Monthly*, referred to in Cathryn Halverson's book title, was first published in 1857.

C) *Faraway Women and the "Atlantic Monthly"* features contributors to the *Atlantic Monthly*, first published in 1857 as a magazine focusing on politics, art, and literature.

D) An author discussed by Cathryn Halverson is Juanita Harrison, whose autobiography appeared in the *Atlantic Monthly* in the early 1900s.

33

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

- The magnificent frigatebird (*fregata magnificens*) is a species of seabird that feeds mainly on fish, tuna, squid, and other small sea animals.
- It is unusual among seabirds in that it doesn't dive into the water for prey.
- One way it acquires food is by using its hook-tipped bill to snatch prey from the surface of the water.
- Another way it acquires food is by taking it from weaker birds by force.
- This behavior is known as kleptoparasitism.

The student wants to emphasize a similarity between the two ways a magnificent frigatebird acquires food. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A) A magnificent frigatebird never dives into the water, instead using its hook-tipped bill to snatch prey from the surface.

B) Neither of a magnificent frigatebird's two ways of acquiring food requires the bird to dive into the water.

C) Of the magnificent frigatebird's two ways of acquiring food, only one is known as kleptoparasitism.

D) In addition to snatching prey from the water with its hook-tipped bill, a magnificent frigatebird takes food from other birds by force.

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