

The unique *subak* water management system used to irrigate the rice paddy fields of the Indonesian island of Bali has a rich cultural, philosophical, and historical significance dating back to the ninth century. The many elements of subak—terraces, canals, and water temples—are ____: they are joined together into a single cohesive unit.

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

- A. interconnected
- B. outmoded
- C. optional
- D. informal

The mihrab (or niche) is one of many features that are foundational to traditional mosque architecture and is therefore considered ____ aspect of mosque design. Even mosques that exhibit elements of multiple architectural styles, such as the KH Hasyim Asy'ari Grand Mosque, which incorporates elements from the Betawi and Indonesian Islamic styles, will also include several of these standard features.

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

A. an imposing

B. an embellished

C. a quintessential

D. an unprecedented

The Egyptian plover—a bird native to Africa—has a symbiotic relationship with the Nile crocodile. While a crocodile rests on land with its mouth open for extended periods of time, the plover eats the food that is stuck in the crocodile's teeth. This _____ relationship provides a nutritious meal for the bird and removes potentially dangerous bacteria from the crocodile's mouth.

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

A. inefficient

B. reciprocal

C. interchangeable

D. unequal

Until 1917, there was no formal measure in the United States Senate that could be _____ to end a debate that had been excessively prolonged as a tactic to block voting on a matter. In that year, a procedure was created to allow a majority of senators to curtail deliberation and force a vote.

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

- A. improvised
- B. invoked**
- C. abolished
- D. partitioned

The following text is adapted from Akwaeke Emezi's 2019 novel *Pet*. Jam is a teenager who lives with her father, Aloe, and her mother, Bitter, who is a painter.

Bitter finished the painting in the dark morning of a day—it was well past midnight when Jam heard the studio door creak open. She stared into the velvet black of her room and listened to her mother's footsteps walking in her [mother] and Aloe's bedroom. There was a weight thrumming through the floorboards in a low song, and that was how Jam knew the painting was done. Bitter's feet were singing the news.

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

- A. It adds to the idea that Bitter's footsteps reveal something to Jam.
- B. It indicates that Jam is more interested in music than in art.
- C. It indicates that Bitter always sings when working on a painting.
- D. It describes Aloe's reaction upon seeing the painting for the first time.

In 2011 Ingrid L. Cripps and colleagues published a study concluding that ocean acidification has a strong effect on the behavior of *Pseudochromis fuscus*, a species of fish. However, Cripps and colleagues' study relied on a mean sample size of only about 9 fish. In a 2022 review of various scientists' conclusions about the impacts of ocean acidification on fish behavior, Josefina Sundin and colleagues caution that relying on such a relatively small sample size can increase the potential for biased analysis. Such analysis, in turn, can contribute to reports of exaggerated effects.

57 Which choice best states the main purpose of the text?

- A. To explain how the behavior of a fish species has changed over time
- B. To note a potential concern about the findings of a scientific study
- C. To present a debate between two research teams about a cause of ocean acidification
- D. To discuss an aspect of ocean acidification that is frequently overlooked

Habitat navigation is a skill that helps animals reach food or safety. To test how navigation works in fish, Shachar Givon and colleagues taught goldfish to drive a vehicle—a motorized fish tank with wheels—on land. The vehicle was programmed to move in the same direction that the fish swam in within the tank. In the experiment, the fish were tasked with driving their tank to a pink board. They received a treat when they succeeded, and they often did. Because the fish could move their tank to the board, Givon concludes that their navigational skills aren't specific to an aquatic environment.

58 Which choice best states the main idea of the text?

- A. Research shows that although they live in the water, fish can navigate on land with a little mechanical help.
- B. Fish can navigate only within their natural aquatic environment in order to find food and safety.
- C. Researchers can train animals to complete many different tasks when they offer the animals treats.
- D. An animal's navigational skills directly depend on that animal's particular environment.

Examples of Hoards found in Ireland and Northern Ireland

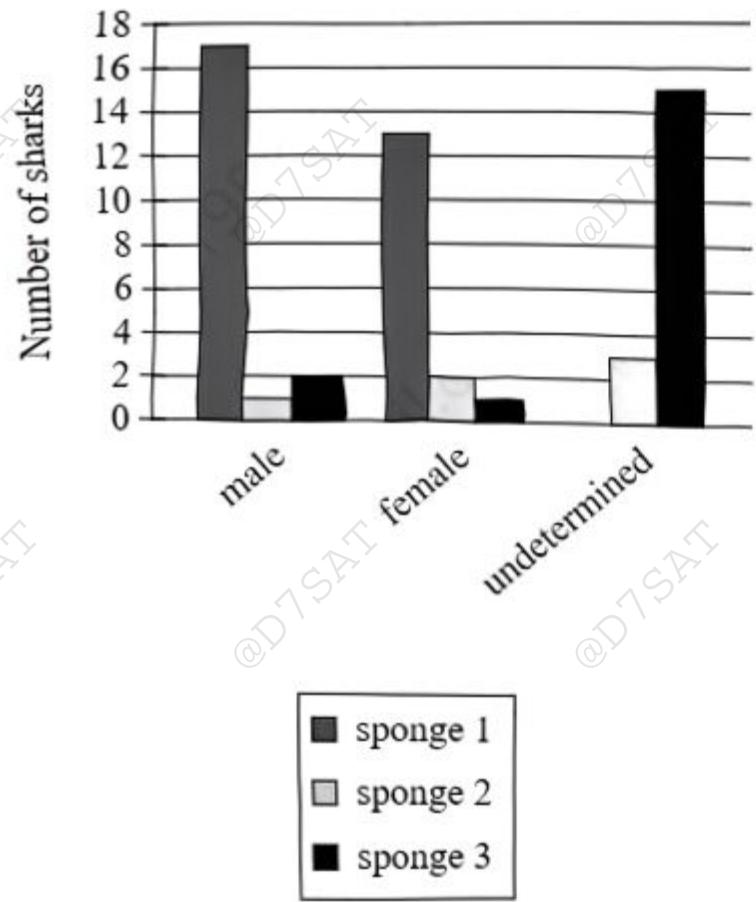
Hoard name	Date of contents	Year of discovery	Description
Brighter Hoard	1st century BCE	1896	gold pieces
Balline Hoard	4th century CE	1940	silver pieces
Dooyork Hoard	3rd century BCE–2nd century CE	2001	gold, bronze, and beads

Deposits of valuable objects, or hoards, have been unearthed in many different parts of Ireland and Northern Ireland. Some of these hoards were discovered before 2000; for example, ____

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

- A. the Brighter Hoard was discovered in 1896, and the Balline Hoard was discovered in 1940.
- B. the Brighter Hoard was one of several hoards discovered in the 1800s.
- C. the Dooyork Hoard was discovered in 1940, and the Balline Hoard was discovered in 2001.
- D. the Balline Hoard and the Dooyork Hoard were both discovered in the 2000s.

Banded Sand Catsharks Found in
Three Sponges



Researcher Helen O'Neill and her team were studying sponges in the family Irciniidae when they discovered that three of the sponges were functioning as microhabitats for banded sand catsharks (*Atelomycterus fasciatus*). Additionally, the team found that male and female *A. fasciatus* share the same sponge (the same microhabitat), a behavior not found among Port Jackson sharks (*Heterodontus portusjacksoni*), another seabed-dwelling species.

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

- A. Each of the three sponges was inhabited by at least one male *A. fasciatus* and at least one undetermined *A. fasciatus*.
- B. Each of the three sponges was inhabited by at least one male *A. fasciatus* and at least one female *A. fasciatus*.
- C. Sponge 1 was inhabited by 13 female *A. fasciatus*.
- D. Sponge 1 was inhabited by 17 male *A. fasciatus*.

Olms are salamanders that live in underwater caves. Scientists once thought that olms stay in their caves all their lives. However, Raoul Manenti and team claim that olms regularly come to the surface to perform important activities such as finding food.

61 Which finding, if true, would most strongly support the underlined claim?

- A. Researchers learn that olms' brains differ from other salamanders' brains.
- B. Researchers determine that olms don't breed often.
- C. Researchers confirm that olms live in only a few cave systems.
- D. Researchers discover that earthworms from surface soils are a major part of olms' diet.

Twinflower (*Linnaea borealis*) plants are native to Alaska, where harsh conditions have historically impeded potential invasive species. As the boreal climate has warmed in recent decades, however, goosefoot (*Chenopodium album*) plants have established themselves in Alaska. It has been suggested that warming-induced delays in the onset of subfreezing temperatures in autumn can benefit invasives more than native species; to evaluate this possibility, biologists Christa Mulder and Katie Spellman tracked *L. borealis* and *C. album*, along with other native and invasive species, over several years, concluding that invasives are advantaged by delays in subfreezing temperature onset in Alaska.

62 Which finding, if true, would most directly support Mulder and Spellman's conclusion?

- A. Although *L. borealis* and *C. album* tended to stop producing leaves at about the same time in years with historically typical temperature patterns, *C. album* stopped producing leaves sooner than *L. borealis* did in years with late subfreezing temperature onset.
- B. Although significant interannual variations in subfreezing temperature onset were observed during the study, neither *C. album* nor *L. borealis* showed any significant interannual variation in the cessation of leaf production.
- C. Although *L. borealis* and *C. album* both tended to produce leaves later into autumn in years with late subfreezing temperature onset, the extension was much greater for *C. album* than for *L. borealis*.
- D. Although *L. borealis* and *C. album* both tended to produce more leaves overall in years with late subfreezing temperature onset than they did in years with historically typical temperature patterns, the years with late subfreezing temperature onset also had early growing season onset in spring.

Eastern Ohio's Monroe County is among the most rural counties in the United States: the US Census Bureau classified it as 97.7% rural in 2010. Researchers studying populations of counties like Monroe often struggle to recruit and retain participants. Melissa Valerio and colleagues tested whether a method called snowball sampling could improve recruitment and retention. Working in two rural counties, the researchers identified a small number of people who had the characteristics desired for a proposed study and asked them to recruit additional participants from their social networks. Valerio and colleagues found that participants recruited via snowball sampling showed a much higher retention rate than did people recruited by strangers, suggesting that _____

63 Which choice most logically completes the text?

- A. snowball sampling is more likely to improve retention rates among rural participants than among nonrural participants.
- B. being recruited to participate in a study by someone with whom one is socially connected may impart a feeling of obligation to persist with participation in the study.
- C. social networks can become large enough that two people can share a network but nevertheless regard each other as strangers.
- D. people with relatively small social networks are inherently less likely to be recruited to participate in a study via snowball sampling than are people with relatively large social networks.

In the periodic table, an element's atomic number indicates how many protons there are in an atom of the element. For example, a calcium atom ____ 20 protons. Professor Raymond Chang explains this concept in more detail in the textbook *Chemistry*.

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

- A. is having
- B. had
- C. has had
- D. has**

Yvonne Adhiambo Owuor, born in 1968, is a novelist from Nairobi, Kenya. In recent years more writers from Kenya, including Owuor, ____ to reach audiences beyond the African nation's borders.

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

- A. begins
- B. is beginning
- C. has begun
- D. have begun

The Hereford map is a mappa mundi from the fourteenth century. Currently held at Hereford Cathedral in Hereford, England, it is one of over 1,000 such world maps from the European Middle Ages still remaining, with the even older Theodulf of Orleans map from the eleventh century (now held at the Vatican Library in Vatican City) ____ another one.

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

- A. is
- B. has been
- C. being
- D. was

The African baobab (*Adansonia digitata*) known as Panke Baobab, located in Zimbabwe, was one of the oldest known trees in the world, at 2,419 years old. With over two millennia of climate data in its tree ____ single tree like this, claims dendrochronologist Valerie Trouet, can tell the history of the world.

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

A. rings. A

B. rings and a

C. rings, a

D. rings; a

The radial velocity method, a means of indirect planetary discovery, has detected previously unknown exoplanets at vast distances from ____ the Neptune-like planet DMPP-1 b; at 296 light-years away, the gas giant 42 Draconis b; and, as of 2023, over 1,000 other exoplanets that are too far away and dim to be observed directly.

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

- A. Earth, at 204 light-years away,
- B. Earth at 204 light-years away,
- C. Earth at 204 light-years away:
- D. Earth: at 204 light-years away,

L. Leann Kanda, a researcher and sewing enthusiast, experimented with several techniques in her attempt to replicate the famous pleating of the Fortuny Delphos gown. The specific method, which the fashion ____ developed in the early twentieth century, is considered lost.

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

- A. designers Henriette Nigrin and Mariano Fortuny y Madrazo,
- B. designers Henriette Nigrin and Mariano Fortuny y Madrazo**
- C. designers, Henriette Nigrin and Mariano Fortuny y Madrazo
- D. designers, Henriette Nigrin and Mariano Fortuny y Madrazo,

While studying jorō spiders, a large species originally from East Asia, University of Georgia researchers wondered if the spiders' rapid spread throughout the southeastern US was a result of aggressive behavior. ____ they discovered that jorō spiders are gentle giants who react to even minor disturbances by "freezing" in place for an hour or more.

70 Which choice completes the text with the most logical transition?

A. Instead,

B. Therefore,

C. For example,

D. In other words,

Some bands choose a name that's as unique as possible to distinguish themselves from other bands. The experimental rock band Boris, ____ took a different approach. They chose to name themselves after a song by a well-known band, the Melvins.

71 Which choice completes the text with the most logical transition?

A. therefore,

B. secondly,

C. by contrast,

D. for example,

Portuguese researcher Isabel C.F.R. Ferreira reports that the cinnamic acid in termite mushrooms benefits the mushroom by combating harmful molecules called free radicals. _____ Ferreira suggests that the acid can promote cellular health in humans, who also experience free radical damage.

72 Which choice completes the text with the most logical transition?

A. For example,

B. Moreover,

C. Conversely,

D. Rather,

The Eloi are not real: they are fictional creatures that feature in H.G. Wells's acclaimed science fiction novella *The Time Machine*. ____ the Eloi were prime candidates for inclusion in Jorge Luis Borges and Margarita Guerrero's *The Book of Imaginary Beings*, a compendium of fantastical entities from legend and literature.

73 Which choice completes the text with the most logical transition?

A. In reality,

B. Granted,

C. For example,

D. As such,

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

Claude McKay (1890–1948) was a Jamaican American poet.

McKay also worked as a novelist and journalist.

"Labor's Day" is a poem by McKay.

It was published in the September 1919 issue of *The Messenger*.

The Messenger was an influential Black literary magazine.

- 74 The student wants to provide an example of a poem by McKay. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A. McKay was a Jamaican American poet, novelist, and journalist.
- B. One example of a poem by McKay is "Labor's Day" (1919).
- C. McKay published poetry in a literary magazine called *The Messenger*.
- D. *The Messenger* was an influential Black literary magazine that published poetry.

The glossy ibis and the little blue heron are long-legged birds that live in wetlands, like the Everglades in Florida. Laura D'Acunto and colleagues wanted to know how these birds choose an area in which to live. They looked at features of the birds' habitats, such as the geographic location of the area and how deep the water is during breeding season. They found that although only glossy ibises prefer areas with deep water during breeding season, both glossy ibises and little blue herons prefer areas that have standing water for more than 60 days per year. The researchers therefore concluded that neither species is very drawn to areas where

75 Which choice most logically completes the text?

- A. there is relatively deep water during the breeding season.
- B. there are any features that attract the other species.
- C. species with breeding seasons longer than 60 days are likely to be present.
- D. there is standing water for far fewer than 60 days per year.**

Topographical prominence is a measure of a mountain's independence from other mountains. Having 9,721 feet of prominence, ____

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

- A. Pico do Ramelau, a peak located in Timor-Leste, is ranked by geographers as the world's 98th most prominent mountain.
- B. the list of mountains geographers rank as the world's most prominent includes Pico do Ramelau, a peak located in Timor-Leste, at number 98.
- C. geographers have ranked Pico do Ramelau, a peak in Timor-Leste, as the world's 98th most prominent mountain.
- D. the ranking given by geographers to Pico do Ramelau, a peak located in Timor-Leste, is 98th most prominent mountain in the world.

High-reward flowers that produce nectar with relatively high sugar concentrations are thought to be especially attractive to stripe-throated hermits and other hummingbird species. But when María A. Magliañesi and team monitored hummingbird visits to flowering plants, including *Palicourea tomentosa*, at Los Cusingos Bird Sanctuary and other sites in Costa Rica, they found that visit frequencies weren't influenced by nectar traits. Rather, physical compatibility of flower corollas (collections of petals) and hummingbird bills more strongly predicted hummingbird-plant interaction patterns.

77 Which statement about hummingbird preferences is most strongly supported by the text?

- A. Hummingbirds consistently prefer plant species whose flowers have physical traits that are compatible with their bills but offer relatively low nectar rewards.
- B. The floral traits that most strongly influence which plant species hummingbirds prefer may result in certain hummingbird species visiting flowers with relatively low nectar rewards over those with higher nectar rewards.
- C. Hummingbirds' preferences are primarily driven by trait-matching between their bills and flower corollas, though nectar qualities are a secondary factor driving their preferences.
- D. Physical compatibility between flower corollas and hummingbird bills becomes an important factor that influences hummingbird preferences when hummingbirds are uncertain about which plants produce high-reward nectar.

The metal displayed in the structure of House in Kamiaraya by Kazuto Nishi Architects and the metal hardware in UE House by GENETO are representative aspects of a juxtaposition common in contemporary Japanese architecture: the _____ of sleek, contemporary elements and traditional organic materials in a single design is a trend with both aesthetic and highly practical purposes.

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

- A. designation
- B. analysis
- C. diffusion
- D. synthesis

Studying advertisements for defunct amusement parks, menus from nineteenth-century restaurants, and handbills promoting long-forgotten political candidates may seem like a frivolous pursuit, but ephemeral objects like these are useful as _____ cultural change, revealing shifts in norms, values, and concerns that traditional objects of historical inquiry may not.

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

- A. alternatives to
- B. conjectures about
- C. indices of
- D. pretexts for

The following text is from a 1955 translation of Samuel Beckett's 1951 novel *Molloy* (translated by the author and Patrick Bowles). In the text, Molloy has arrived at the town ramparts, an elevated walkway atop the city walls.

And having cleared the ramparts I had to confess the sky was clearing, prior to its winding in the other shroud, night. Yes, the great cloud was ravelling, discovering here and there a pale and dying sky, and the sun, already down, was manifest in the livid tongues of fire darting towards the zenith, falling and darting again, ever more pale and languid, and doomed no sooner lit to be extinguished.

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

- A. Dwindling
- B. Realized
- C. Situated
- D. Perceptible

The Silence of Dean Maitland is one of twenty-five works from the nineteenth and early twentieth centuries reissued in 2020 in a project professing to give overdue credit to authors by replacing nonfemale pseudonyms with the authors' given female names (crediting Mary Tuttiett rather than Maxwell Gray, in this case). Olivia Rutigliano and other scholars cite a lack of nuance and erasure of intention in the implication that pseudonymous identities were invariably necessary due to social roles, appropriately contending that what may have been a constraint for some was an elective exercise in self-fashioning for others.

24. Which choice best describes the overall structure of the text?

- A. A literary project is briefly described, the stance taken by Rutigliano and others in response to that project is introduced, and then support for that stance is expressed.
- B. Details about a reissue of *The Silence of Dean Maitland* are given, a question about the authorship of that work is raised, and then the circumstances of the work's original publication are considered.
- C. *The Silence of Dean Maitland* is cited as a prominent work from a literary movement, a study of the movement's defining features is mentioned, and then one of the study's insights is presented.
- D. An assertion about a literary project is reported, the team of scholars that advanced the assertion is identified, and then the reasoning behind the assertion is summarized.

Text 1

For decades, ornithologists assumed that if they saw a singing Cassin's finch—a bird species found in temperate North America—they must be observing a male trying to attract a mate or claim territory. As Peter J.B. Slater and Nigel I. Mann have emphasized, however, a similar assumption can't be made about birds in the tropics, where females sing as often as males do. Slater and Mann call for more research on this discrepancy between tropical and temperate female birdsong.

Text 2

Recent evidence shows that a female Cassin's finch is as capable of song as a male is. In fact, female birdsong is more common among temperate species than currently assumed, claim Evangeline Rose and colleagues. These female songbirds sing less frequently than males do, and in duller tones, making it "easy for researchers to miss the quiet and hidden females and focus on the loud and colorful males," says Rose.

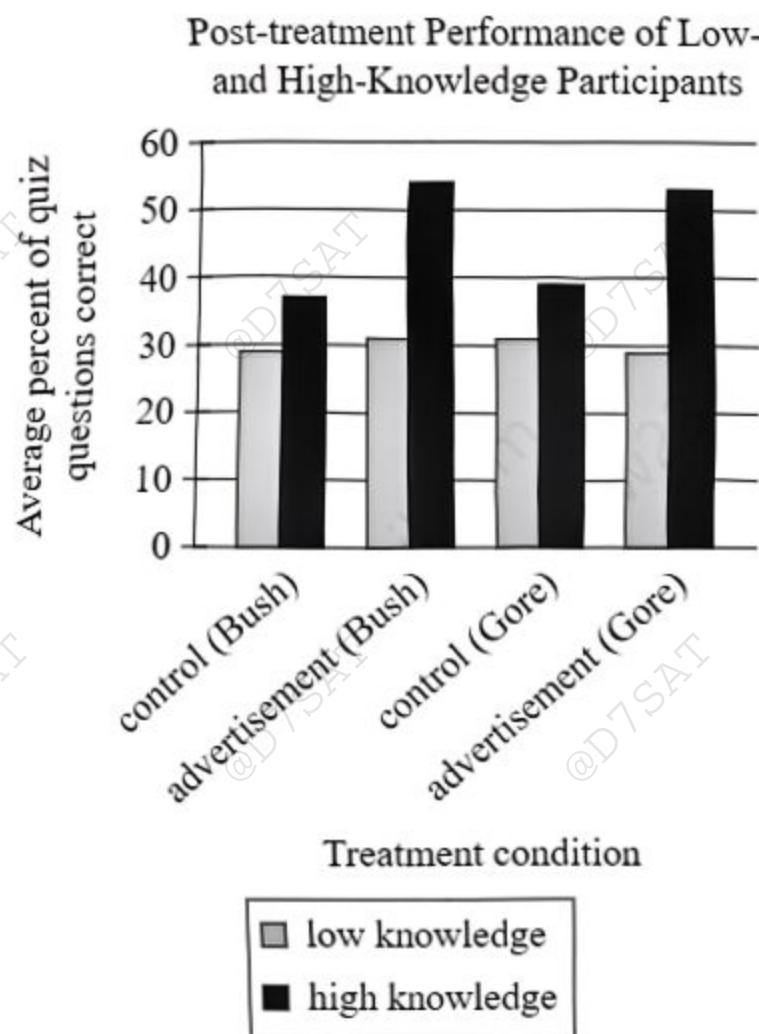
24. Which choice best describes a difference in what the author of Text 1 and the author of Text 2 believe about female birdsong?

- A. The author of Text 2 thinks that among tropical species, females sing less frequently than males do, whereas the author of Text 1 thinks that females sing as frequently as males do.
- B. The author of Text 2 would likely disagree with the author of Text 1 about whether it can be assumed that females of temperate species don't sing.
- C. The author of Text 2 believes that female birdsong is much more common among tropical species than the author of Text 1 believes.
- D. The author of Text 2 would likely reject the claim by the author of Text 1 that among tropical birds, females sing as frequently as males do.

Postcranial skeletal pneumaticity (PSP), a system of skeletal air sacs, occurred in three Cretaceous clades, including pterosaurs (e.g., *Pteranodon*); past studies have hypothesized that the trait was homologous (originating from a shared ancestor). With this in mind, Tito Aureliano et al. examined fossils of common ancestors of the clades using microtomography, finding openings in bones—a possible indicator of PSP—but of sizes inconsistent with PSP. The team reported other findings contradicting the homology hypothesis as well, concluding that PSP likely evolved independently in each clade.

249 Which choice best states the main idea of the text?

- A. Aureliano et al. found openings in bones in fossils of common ancestors of pterosaurs and two other Cretaceous clades, but the team determined that the sizes of the openings were too varied to be indicative of PSP, thereby weakening the homology hypothesis.
- B. Although past studies by paleontologists concluded that PSP in pterosaurs and two other Cretaceous clades was likely attributable to a common ancestor, those paleontologists lacked access to technology that led Aureliano et al. to reach a different conclusion.
- C. Previous studies hypothesized that PSP originated in a shared ancestor of pterosaurs and two other clades, but the findings of Aureliano et al. suggest that PSP evolved independently in pterosaurs and was subsequently inherited by the other two clades.
- D. Aureliano et al. found that pterosaurs and two other Cretaceous clades with PSP likely lacked a common ancestor with the trait, leading the team to posit a different evolutionary origin for PSP than that posited in earlier studies.



Political scientists have asserted that by providing succinct and clear information about candidates and issues, campaign advertisements should reduce the differences in political knowledge observed between groups of voters. Cognitive scientists have noted, however, that existing domain knowledge facilitates the acquisition of new information in that domain. Valentino et al. shed light on this issue by presenting control ads or ads for George W. Bush or Al Gore (candidates in the 2000 US presidential election) to participants with low or high existing political knowledge, then quizzing participants on their understanding of both candidates' positions.

250 Taken together, information in the text and graph best support which conclusion about the campaign ads used in the study by Valentino et al.?

- A. They appear to have benefited high-knowledge participants more than they benefited low-knowledge participants, which lends more support to the view advanced by political scientists than to the view advanced by cognitive scientists.
- B. They appear to have had an effect contrary to the effect that political scientists expect campaign ads to have, possibly due to the phenomenon that cognitive scientists have identified.
- C. They appear to have worsened the problem that political scientists claim that campaign ads should alleviate, possibly because the phenomenon identified by cognitive scientists appears not to have occurred.
- D. They appear to have had the result that political scientists predict that campaign ads will have, but only for high-knowledge participants, which is what cognitive scientists would expect.

Fiber Characteristics of Mouflon, Navajo-Churro, and Spanish Merino Sheep

Type of sheep	Diameter of outer coat fibers (in microns)	Diameter of inner coat fibers (in microns)
Spanish Merino	19–24	17–21
Navajo-Churro	35 or higher	10–35
Mouflon	150	15

Domestic sheep's wild ancestor, the mouflon, has a coarse outer coat and an inner coat of wool fiber that is finer in diameter and therefore much softer. In some domestic breeds, such as the Spanish Merino, the outer fiber is only marginally coarser than the inner, and the wool is soft overall. Thus, Merino wool is ideal for delicate garments worn against the skin. Meanwhile, the Navajo-Churro has been selected to retain the marked distinction between outer and inner fiber that the Merino has lost. Being coarser than Merino wool overall, Navajo-Churro wool yields a more durable yarn, which Diné (Navajo) weavers use in their celebrated rugs. Yet a comparison of the fiber characteristics of all three sheep reveals that

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

- A. the Navajo-Churro more closely resembles its ancestor, the mouflon, in the uniform softness of its inner fiber, while the Merino more closely resembles the mouflon in the variable diameter of its outer fiber.
- B. domestication resulted in a counterintuitive increase in the inner fiber's minimum diameter, making the inner fiber of the Merino and the Navajo-Churro less suitable for delicate garments than the mouflon's inner fiber is.
- C. the domestication of the mouflon and the subsequent selection process that produced the Merino and the Navajo-Churro resulted in greater softness of outer and inner fiber alike.
- D. the selection process that enabled the Navajo-Churro to retain its somewhat coarse outer fiber also resulted in inner fiber that, at its softest, is softer than either the mouflon's or the Merino's inner fiber.

Belonging to neither the minimalist nor the abstract art movements but heavily influencing both, Constantin Brâncuși spent his sculpting career returning to the same few themes—a kiss, a sleeping head, and a bird in flight—each rendered in pristine, simple, almost abstract forms. Perhaps the most famous example is *Bird in Space* (1941), a tall, slender bronze sculpture that arcs upward in a manner suggestive of flight but that otherwise lacks any identifiable characteristics of a bird. Despite the seeming simplicity of his works, the exacting standards to which Brâncuși held his work meant that he produced relatively few pieces over his career. There is thus something of a disparity between ____

25. Which choice most logically completes the text?

- A. the themes Brâncuși explored and the themes favored by artists he inspired.
- B. Brâncuși's importance to the history of art and his total artistic output.**
- C. the nature of much of Brâncuși's work and the abstraction of *Bird in Space*.
- D. Brâncuși's relatively limited productivity and the diversity of his sculptures.

Subsequent to simulating an attack to elicit defense responses in three caterpillar species, ecologists placed a treatment group of those individuals in an enclosure where they were exposed to slight, harmless ambient electric field shifts like those created by common predatory wasps in flight. When exposed to the treatment, cinnabar moth caterpillars and scarce vapourer moth caterpillars remained coiled in a defensive position for an average of 71 seconds and 87 seconds, respectively, whereas European peacock butterfly caterpillars continued to flail defensively for 20 seconds. Meanwhile, in a control group, all individuals (from all three species) resumed neutral behavior in less than one-tenth of a second after the simulated attack. These results suggest that _____.

253 Which choice most logically completes the text?

- A. some species of caterpillars are able to detect potential threats via changes in ambient electric fields.
- B. in some caterpillar species, the type and duration of defensive responses to electric field shifts varies based on the size of the shifts.
- C. European peacock butterfly caterpillars are more sensitive to changes in ambient electric fields than are cinnabar moth caterpillars or scarce vapourer caterpillars.
- D. caterpillar species with the sensory acuity to detect small changes in ambient electric fields may also be able to cause shifts in those fields.

Occurring in the constellation Coma Berenices, 38 million light-years from Earth, SN 1940B was a ____ explosion of a massive star, which blasts large amounts of radiation, heavy elements, and debris into space—that was first detected by American astronomer Josef Johnson.

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

- A. supernova, the
- B. supernova. The
- C. supernova—the
- D. supernova: the

Taking a deconstructionist approach to analyzing Ji-li Jiang's novel *Red Scarf Girl* would lead a critic to focus on the linguistic structures inherent in the novel. On the other hand, a cultural studies analysis ____ on the intersection of literature and popular culture might yield a radically different interpretation of Jiang's novel.

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

- A. would focus
- B. would be focusing
- C. focusing
- D. focuses

The vertical position of the Sun in the sky at a particular time of day varies throughout the year: due to Earth's axial tilt, it appears higher in the summer and lower in the winter. Axial tilt is not the only factor that affects the Sun's _____ as the eccentricity of Earth's orbit causes its position to vary horizontally as well, resulting in a figure-eight shape called an analemma (if the Sun's position is recorded at the same time of day throughout the year).

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

- A. position, though,
- B. position; though,
- C. position, though
- D. position, though;

While the ancient Celts—Iron Age peoples who inhabited parts of western and central Europe—weren't a single unified group, their art often featured common elements. These included intricate patterns of interlocking spiral lines, which often held symbolic ____ of birds, horses, and other animals; and inlaid enamel accents.

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

- A. significance. Depictions
- B. significance: depictions
- C. significance; depictions
- D. significance, depictions

Scientists have long known that cyclones can contribute to the formation of polynyas, large patches of unfrozen water that sporadically form amid vast sheets of sea ice. A recent study found evidence that these polynyas may be _____ but also by vapor streams, which travel through the atmosphere from the tropics toward the North and South Poles.

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

- A. caused not only by cyclones—
- B. caused—not only by cyclones—
- C. caused, not only by cyclones,
- D. caused not only by cyclones

At the Marie Hitchcock Puppet Theater in San Diego, California, audiences sit down to enjoy a live puppet show. ____ they will experience puppetry in its highest form. The theater's professional puppeteers are experts in any number of the dozens of puppetry styles, from bunraku puppetry to marionette puppetry.

259 Which choice completes the text with the most logical transition?

- A. To that end,
- B. However,
- C. Conversely,
- D. There,

Every US state has an associated state soil, which is typically selected by a group of experts, then passed through the state legislature to receive its official designation. For example, Oklahoma's Port Silt Loam soil was formally designated in 1987, and Maine's Chesuncook soil in 1999. _____ years pass between a soil's selection and official designation, as the legislative process can be notoriously slow.

260 Which choice completes the text with the most logical transition?

- A. In many cases,
- B. Similarly,
- C. Indeed,
- D. Therefore,

At the Museum of Natural History in Washington, DC, a single specimen of the planktonic marine organism *B. pumilio* is preserved as the reference organism for the species. This specimen is a holotype, meaning it was the basis of the first formal scientific description of *B. pumilio*. _____ the reference organism for the planktonic *G. inflata*, preserved at the Natural History Museum in London, is a neotype, meaning it acts as a reference organism but is not the exact specimen originally described.

261 Which choice completes the text with the most logical transition?

- A. By contrast,
- B. Moreover,
- C. Admittedly,
- D. For instance,

Vexillology is the study of flags.

The flags of many countries include symbols like animals, plants, or landforms.

These symbols often represent an aspect of the region's history, culture, or landscape.

The flag of El Salvador includes a palm branch.

The flag of Zambia includes an eagle.

262 Which choice most effectively uses information from the given sentences to emphasize a difference between the two flags?

- A. Vexillologists study flags, like those of El Salvador and Zambia.
- B. Many countries feature symbols on their flags, such as animals, plants, or landforms, and the study of these designs is known as vexillology.
- C. Countries like El Salvador and Zambia use symbols on their flags; examples include plants and animals.
- D. El Salvador includes a plant on its flag, whereas Zambia's flag includes an animal.

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

The Leidenfrost effect occurs when liquid touches a solid surface significantly hotter than the liquid's boiling point, forming a vapor layer that insulates the liquid before eventually collapsing.

Scientists long hypothesized that the temperatures at which Leidenfrost vapor forms and collapses vary depending on molecular variations in surfaces and liquids.

A 2023 study confirmed that the vapor's formation temperature varies depending on molecular variations in surfaces and liquids.

The study also found that the vapor's collapse temperature was "nearly independent of material and fluid properties, contrary to previous theories."

The vapor's collapse temperature remained consistent (around 140°C).

263 The student wants to refute a scientific assumption about the Leidenfrost effect. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A. Contrary to the hypothesis that vapor layer formation temperature is dictated by molecular variation, a 2023 study confirmed that the temperature at which the vapor layer forms depends on the surface and liquid used.
- B. Though the vapor layer created by the Leidenfrost effect can be formed at a range of temperatures, the temperature at which the layer collapses varies depending on material and fluid properties.
- C. Countering previous hypotheses, a recent study found that Leidenfrost vapor's collapse temperature does not vary depending on material and fluid properties.
- D. Scientists had hypothesized that the formation temperature of Leidenfrost vapor depends on variations in surfaces and liquids used, but a 2023 study confirmed that the collapse temperature remains consistent.

In a chemical equation, converting between the mass of the reactants and the mass of the product requires knowing each component's molar mass, a quantification of the average mass of the atoms in a compound. The gaseous _____ has a molar mass of 48.00 g/mol.

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

- A. compound ozone (O_3),
- B. compound, ozone (O_3)
- C. compound ozone (O_3)
- D. compound, ozone (O_3),

Snow hydrologist Julie Koeberle helps maintain automated snow measurement stations.

They are called SNOTEL sites.

There are around 70 stations throughout Alaska.

One is at Turnagain Pass.

The data collected can help researchers make downstream water supply predictions.

309 Which choice most effectively uses information from the given sentences to provide an example of a SNOTEL site?

- A. Located throughout Alaska, SNOTEL sites monitor snow conditions.
- B. The SNOTEL site at Turnagain Pass is one of around 70 automated snow measurement stations in Alaska.
- C. Snow hydrologist Julie Koeberle helps maintain automated snow monitoring stations known as SNOTEL sites.
- D. The data collected by SNOTEL sites can help researchers predict downstream water supplies.

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

The nautical mile (6,076 feet) is the measure of distance used in seafaring navigation.

A nautical mile directly correlates to one minute (1/60th of a degree) of latitude. The curvature of Earth affects the accurate measurement of long distances when using flat maps.

Measuring distances with latitude and longitude coordinates takes into account Earth's curvature.

Mariners use nautical charts marked with latitude and longitude to quickly calculate distances and positions.

310 The student wants to explain why nautical miles are used to measure distances in seafaring navigation. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A. Since they directly correlate to the coordinates on nautical charts, which take into account Earth's curvature, nautical miles are an efficient way to calculate distances at sea.
- B. Nautical miles are a measure of distance equal to one minute of latitude, which is a feature nautical charts use to calculate distances and positions.
- C. Nautical charts use latitude and longitude to measure long distances; these charts are more accurate than flat maps for measuring distances in seafaring navigation because they account for Earth's curvature.
- D. Using nautical miles for navigation at sea takes Earth's curvature into account, whereas measuring distances with latitude and longitude coordinates does not.