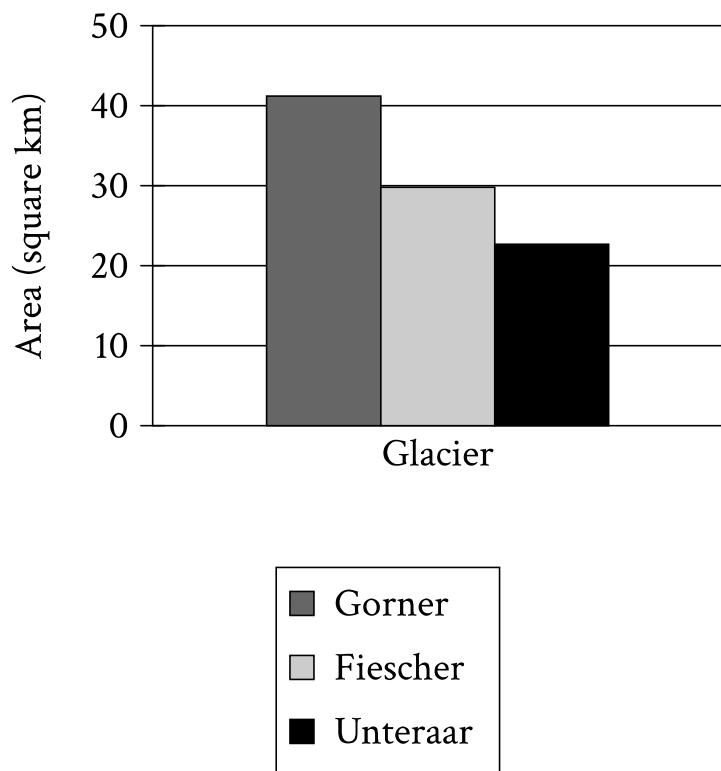


The Hubble Space Telescope (HST) is projected to maintain operation until at least 2030, but it has already revolutionized high-resolution imaging of solar-system bodies in visible and ultraviolet (UV) light wavelengths, notwithstanding that only about 6% of the bodies imaged by the HST are within the solar system. NASA researcher Cindy L. Young and colleagues assert that a new space telescope dedicated exclusively to solar-system observations would permit an extensive survey of minor solar-system bodies and long-term UV observation to discern how solar-system bodies change over time. Young and colleagues' recommendation therefore implies that the HST _____

Which choice most logically completes the text?

- A. will likely continue to be used primarily to observe objects outside the solar system.
- B. will no longer be used to observe solar system objects if the telescope recommended by Young and colleagues is deployed.
- C. can be modified to observe the features of solar system objects that are of interest to Young and colleagues.
- D. lacks the sensors to observe the wavelengths of light needed to discern how solar system bodies change over time.

Area of Three Glaciers in the 2016 Swiss Glacier Inventory



To monitor changes to glaciers in Switzerland, the government periodically measures them for features like total area of ice and mean ice thickness, which are then reported in the Swiss Glacier Inventory. These measurements can be used to compare the glaciers. For example, the Gorner glacier had _____.

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

- A. a larger area than either the Fiescher glacier or the Unteraar glacier.
- B. a smaller area than the Fiescher glacier but a larger area than the Unteraar glacier.
- C. a smaller area than either the Fiescher glacier or the Unteraar glacier.
- D. a larger area than the Fiescher glacier but a smaller area than the Unteraar glacier.

Neural networks are computer models intended to reflect the organization of human brains and are often used in studies of brain function. According to an analysis of 11,000 such networks, Rylan Schaeffer and colleagues advise caution when drawing conclusions about brains from observations of neural networks. They found that when attempting to mimic grid cells (brain cells used in navigation), while 90% of the networks could accomplish navigation-related tasks, only about 10% of those exhibited any behaviors similar to those of grid cells. But even this approximation of grid-cell activity has less to do with similarity between the neural networks and biological brains than it does with the rules programmed into the networks.

Which finding, if true, would most directly support the claim in the underlined sentence?

- A. The rules that allow for networks to exhibit behaviors like those of grid cells have no equivalent in the function of biological brains.
- B. The networks that do not exhibit behaviors like those of grid cells were nonetheless programmed with rules that had proven useful in earlier neural-network studies.
- C. Neural networks can often accomplish tasks that biological brains do, but they are typically programmed with rules to model multiple types of brain cells simultaneously.
- D. Once a neural network is programmed, it is trained on certain tasks to see if it can independently arrive at processes that are similar to those performed by biological brains.

ID: 4d671b68

Algae living within the tissues of corals play a critical role in keeping corals, and the marine ecosystems they are part of, thriving. Some coral species appear brown in color when healthy due to the algae colonies living in their tissues. In the event of an environmental stressor, the algae can die or be expelled, causing the corals to appear white. To recover the algae, the bleached corals then begin to produce bright colors, which block intense sunlight, encouraging the light-sensitive algae to recolonize the corals.

What does the text most strongly suggest about corals that produce bright colors?

- A. These corals have likely been subjected to stressful environmental conditions.
- B. These corals are likely more vulnerable to exposure from intense sunlight than white corals are.
- C. These corals have likely recovered from an environmental event without the assistance of algae colonies.
- D. These corals are more likely to survive without algae colonies than brown corals are.

ID: a0f3b38c

Scientists have long believed that giraffes are mostly silent and communicate only visually with one another. But biologist Angela Stöger and her team analyzed hundreds of hours of recordings of giraffes in three European zoos and found that giraffes make a very low-pitched humming sound. The researchers claim that the giraffes use these sounds to communicate when it's not possible for them to signal one another visually.

Which finding, if true, would most directly support Stöger and her team's claim?

- A. Giraffes have an excellent sense of vision and can see in color.
- B. The giraffes only produced the humming sounds at night when they couldn't see one another.
- C. Wild giraffes have never been recorded making humming sounds.
- D. Researchers observed other animals in European zoos humming.

ID: 206ecbfd

Plants like potatoes, tomatoes, and soybeans are susceptible to bacterial wilt disease caused by the bacteria *Ralstonia solanacearum*. A multinational team of scientists led by Zhong Wei studied whether other microbes in the soil might influence the degree to which plants are affected by the disease. The team sampled soil surrounding individual tomato plants over time and compared the results of plants that became diseased with those that remained healthy. They concluded that the presence of certain microbes in the soil might explain the difference between healthy and diseased plants.

Which finding, if true, would most directly support the team's conclusion?

- A. The soil surrounding healthy plants contained significantly higher concentrations of microbes known to inhibit *Ralstonia solanacearum* than the soil surrounding diseased plants did.
- B. The soil surrounding the plants contained high concentrations of *Ralstonia solanacearum* regardless of whether the plants were affected by wilt disease.
- C. The soil surrounding healthy plants tended to have significantly higher moisture levels than the soil surrounding diseased plants did.
- D. By the end of the experiment, over half the plants had been affected by wilt disease regardless of differences in the types and concentrations of microbes in the surrounding soil.

ID: 7b249420

Biologist Natacha Bodenhausen and colleagues analyzed the naturally occurring bacterial communities associated with leaves and roots of wild *Arabidopsis thaliana*, a small flowering plant. The researchers found many of the same bacterial genera in both the plants' leaves and roots. To explain this, the researchers pointed to the general proximity of *A. thaliana* leaves to the ground and noted that rain splashing off soil could bring soil-based bacteria into contact with the leaves. Alternatively, the researchers noted that wind, which may be a source of bacteria in the aboveground portion of plants, could also bring bacteria to the soil and roots. Either explanation suggests that _____.

Which choice most logically completes the text?

- A. bacteria carried by wind are typically less beneficial to *A. thaliana* than soil-based bacteria are.
- B. some bacteria in *A. thaliana* leaves and roots may share a common source.
- C. many bacteria in *A. thaliana* leaves may have been deposited by means other than rain.
- D. *A. thaliana* leaves and roots are especially vulnerable to harmful bacteria.

ID: 533d6d0e

To make her art more widely available, graphic artist Elizabeth Catlett turned to linocuts. In linocut printing, an artist carves an image into a sheet of linoleum to create a stamp that is used to mass-produce prints. In the linocut series *The Black Woman* (1946–1947), Catlett depicts the everyday experiences of Black women alongside the achievements of well-known Black women. This pairing invites the viewer to draw connections among the women. The linocut process enabled Catlett's work to reach a wide audience and supported her aim to unite Black women through her art.

According to the text, what is significant about Catlett's use of linocut printing?

- A. Linocut printing involved using materials that were readily available to Catlett.
- B. Linocut printing helped Catlett use art to connect people, especially Black women.
- C. Catlett became commercially successful once she started using linocut printing.
- D. Catlett was one of the first Black artists to use linocut printing.

The following text is adapted from Countee Cullen's 1926 poem "Thoughts in a Zoo."

They in their cruel traps, and we in ours,
Survey each other's rage, and pass the hours
Commiserating each the other's woe,
To mitigate his own pain's fiery glow.
Man could but little proffer in exchange
Save that his cages have a larger range.
That lion with his lordly, untamed heart
Has in some man his human counterpart,
Some lofty soul in dreams and visions wrapped,
But in the stifling flesh securely trapped.

Based on the text, what challenge do humans sometimes experience?

- A. They cannot effectively tame certain wild animals because of a lack of compassion.
- B. They cannot focus on setting attainable goals because of a lack of motivation.
- C. They quickly become frustrated when faced with difficult tasks because of a lack of self-control.
- D. They have aspirations that cannot be fulfilled because of certain limitations.

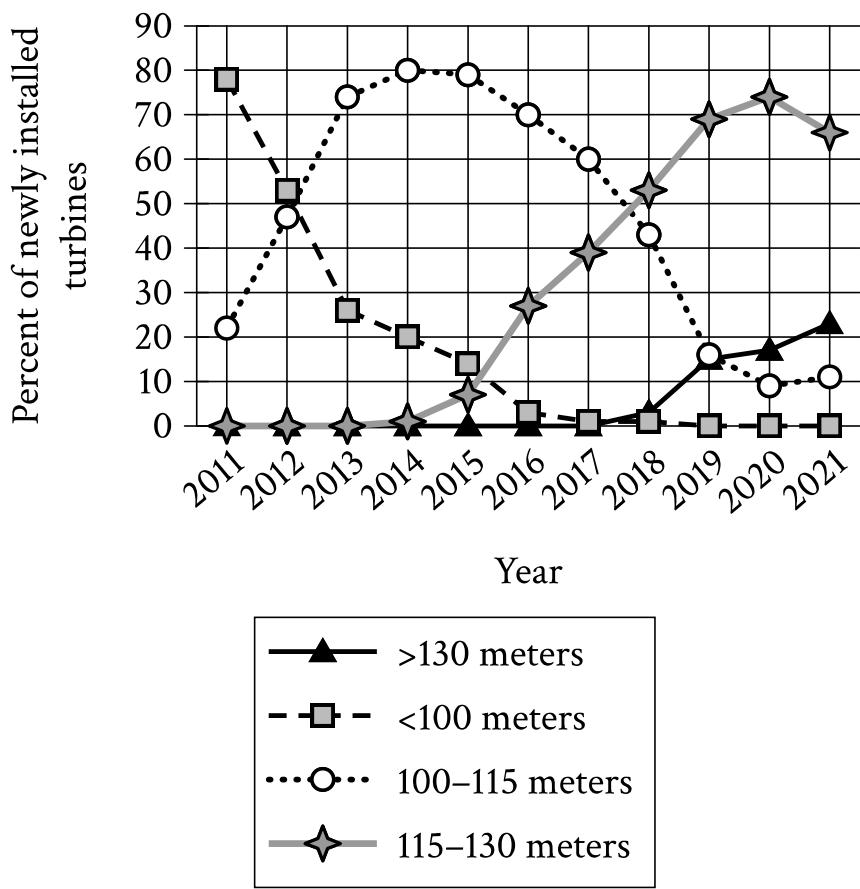
ID: 12b370c2

Disco remains one of the most ridiculed popular music genres of the late twentieth century. But as scholars have argued, the genre is far less superficial than many people believe. Take the case of disco icon Donna Summer: she may have been associated with popular songs about love and heartbreak (subjects hardly unique to disco, by the way), but like many Black women singers before her, much of her music also reflects concerns about community and identity. These concerns are present in many of the genre's greatest songs, and they generally don't require much digging to reveal.

What does the text most strongly suggest about the disco genre?

- A. It has been unjustly ignored by most scholars despite the importance of the themes addressed by many of the genre's songs.
- B. It evolved over time from a superficial genre focused on romance to a genre focused on more serious concerns.
- C. It has been unfairly dismissed for the inclusion of subject matter that is also found in other musical genres.
- D. It gave rise to a Black women's musical tradition that has endured even though the genre itself faded in the late twentieth century.

Rotor Diameters of Newly Installed Wind Turbines in the United States, 2011–2021



All other things being equal, the larger a wind turbine's rotor diameter (the diameter of the imaginary circle swept by the turbine's rotating blades), the greater amount of energy the turbine can generate. In a research paper on wind power, a student claims that in the United States, the amount of energy generated per newly installed turbine increased substantially between 2011 and 2021.

Which choice best describes data in the graph that support the student's claim?

- A. The percentage of newly installed turbines with rotor diameters greater than 130 meters increased every year between 2011 and 2021.
- B. In 2011, nearly 80% of turbines installed had rotor diameters of less than 100 meters, whereas only a little more than 20% of turbines installed that year had rotor diameters of 100–115 meters.
- C. No turbines installed in 2011 had rotor diameters greater than 115 meters, whereas the majority of turbines installed in 2021 had rotor diameters greater than 130 meters.
- D. Most turbines installed in 2011 had rotor diameters of less than 100 meters, whereas most turbines installed in 2021 had rotor diameters of at least 115 meters.

Tadpole Body Mass and Toxin Production after Three Weeks in Ponds

Population density	Average tadpole body mass (milligrams)	Average number of distinct bufadienolide toxins per tadpole	Average amount of bufadienolide per tadpole (nanograms)	Average bufadienolide concentration (nanograms per milligram of tadpole body mass)
High	193.87	22.69	5,815.51	374.22
Medium	254.56	21.65	5,525.72	230.10
Low	258.97	22.08	4,664.99	171.43

Ecologist Veronika Bókony and colleagues investigated within-species competition among common toads (*Bufo bufo*), a species that secretes various unpleasant-tasting toxins called bufadienolides in response to threats. The researchers tested *B. bufo* tadpoles' responses to different levels of competition by creating ponds with different tadpole population densities but a fixed amount of food. Based on analysis of the tadpoles after three weeks, the researchers concluded that increased competition drove bufadienolide production at the expense of growth.

Which choice uses data from the table to most effectively support the researchers' conclusion?

- A. The difference in average tadpole body mass was small between the low and medium population density conditions and substantially larger between the low and high population density conditions.
- B. Tadpoles in the low and medium population density conditions had substantially lower average bufadienolide concentrations but had greater average body masses than those in the high population density condition.
- C. Tadpoles in the high population density condition displayed a relatively modest increase in the average amount of bufadienolide but roughly double the average bufadienolide concentration compared to those in the low population density condition.
- D. Tadpoles produced approximately the same number of different bufadienolide toxins per individual across the population density conditions, but average tadpole body mass decreased as population density increased.

ID: 84b290f2

In vertical inheritance, parents pass genes to their offspring, but in horizontal transfer (HT), one species, often bacteria, passes genetic material to an unrelated species. In a 2022 study, herpetologist Atsushi Kurabayashi and his team investigated HT in multicellular organisms—namely, snakes and frogs in Madagascar. The team detected *BovB*—a gene transmitted vertically in snakes—in many frog species. The apparent direction of gene transfer seems counterintuitive because frogs usually don't survive encounters with snakes and so wouldn't be able to transmit the newly acquired gene to offspring, but the team concluded that *BovB* is indeed transmitted from snakes to frogs, either directly or indirectly, via HT.

Which finding, if true, would most directly support the team's conclusion?

- A. *BovB* can be transmitted across frog species through HT.
- B. Parasites known to feed on species of snakes and frogs in which the *BovB* gene occurs also carry *BovB*.
- C. *BovB* cannot be reliably transmitted from a snake species to bacteria that are usually encountered by frog species.
- D. Frog species with *BovB* show few discernible advantages as compared with frog species that do not carry *BovB*.

ID: e3b5bb66

The most recent iteration of the immersive theater experience *Sleep No More*, which premiered in New York City in 2011, transforms its performance space—a five-story warehouse—into a 1930s-era hotel. Audience members, who wander through the labyrinthine venue at their own pace and follow the actors as they play out simultaneous, interweaving narrative loops, confront the impossibility of experiencing the production in its entirety. The play's refusal of narrative coherence thus hinges on the sense of spatial fragmentation that the venue's immense and intricate layout generates.

What does the text most strongly suggest about *Sleep No More*'s use of its performance space?

- A. The choice of a New York City venue likely enabled the play's creators to experiment with the use of theatrical space in a way that venues from earlier productions could not.
- B. Audience members likely find the experience of the play disappointing because they generally cannot make their way through the entire venue.
- C. The production's dependence on a particular performance environment would likely make it difficult to reproduce exactly in a different theatrical space.
- D. Audience members who navigate the space according to a recommended itinerary will likely have a better grasp of the play's narrative than audience members who depart from that itinerary.

ID: b7c5b4e4

Shimmering is a collective defense behavior that researchers have observed in giant honeybee colonies. When shimmering, different groups of bees flip their bodies up and down in what looks like waves. This defense is initiated when hornets hover near a colony, serving to deter the hornets from approaching the bees. Researchers hypothesize that this behavior is a specialized defense response to hornets, as it is not observed when other, larger predators approach the colony.

Which choice best states the main idea of the text?

- A. Researchers are unsure how giant honeybees defend against predators larger than hornets.
- B. Researchers think that shimmering in giant honeybees is a specific defense against hornets.
- C. Hornets are known to be the main predator of giant honeybees.
- D. Several different species of insects use shimmering to defend against hornets.

ID: 26267909

One aspect of in-person shopping that online shopping can't replicate is the opportunity to touch a product before buying it. Does this difference matter? In an experiment, researchers asked one group of participants to touch a mug and a toy, while another group was prohibited from touching the two items. The participants were then asked how much money they'd pay for the items. People who got to touch the items were willing to pay much more money for them than were people who weren't allowed to touch the items. This finding suggests that _____

Which choice most logically completes the text?

- A. people who mainly shop online probably spend more money every month than people who mainly shop in person do.
- B. in-person shopping may make products seem more valuable than they seem if only viewed online.
- C. retailers with in-person and online stores should charge the same price for a given product in both places.
- D. online retailers may be able to raise the prices they charge for products that are only available online.

ID: a380e0c7

Bicycles were first mass-produced in the late nineteenth century throughout Europe and North America, allowing individuals remarkable freedom to travel longer distances quickly and comfortably. This freedom, coupled with the affordability of the vehicle, made the bicycle immensely popular. Individuals were able to live farther from their workplaces, easily visit neighboring towns, and participate in new leisure and sport activities. Bicycling quickly became a popular social endeavor, with enthusiasts forming local cycling clubs to enjoy these newfound activities with others.

Which choice best states the main idea of the text?

- A. The widespread adoption of the bicycle in the late nineteenth century provided new opportunities for people.
- B. The affordability of the bicycle in the late nineteenth century made it the preferred way to travel.
- C. The popularity of the bicycle in the late nineteenth century gave rise to the first cycling clubs.
- D. The mass production of the bicycle in the late nineteenth century made it safer for people to use.

ID: f176ef9e

"Mr. Cornelius Johnson, Office-Seeker" is a 1900 short story by Paul Laurence Dunbar. In the story, the narrator describes Mr. Cornelius Johnson's appearance as conveying his exaggerated sense of his importance: _____

Which quotation from "Mr. Cornelius Johnson, Office-Seeker" most effectively illustrates the claim?

- A. "He carried himself always as if he were passing under his own triumphal arch."
- B. "The grey Prince Albert was scrupulously buttoned about his form, and a shiny top hat replaced the felt of the afternoon."
- C. "It was a beautiful day in balmy May and the sun shone pleasantly on Mr. Cornelius Johnson's very spruce Prince Albert suit of grey as he alighted from the train in Washington."
- D. "Mr. Cornelius Johnson always spoke in a large and important tone."

ID: 5c37d685

To investigate the history of plate subduction—when one of Earth's tectonic plates slides beneath another—Sarah M. Aarons and colleagues compared ancient rocks from the Acasta Gneiss Complex in Canada to modern rocks. Using isotope analysis, the researchers found that Acasta rocks dating to about 4.02 billion years ago (bya) most strongly resemble modern rocks formed in a plume setting (an area in which hot rocks from Earth's mantle flow upward into the crust). By contrast, they found that Acasta rocks dating to about 3.75 bya and 3.6 bya have an isotope composition that is similar to that of modern rocks formed in a subduction setting. Aarons's team therefore concluded that _____

Which choice most logically completes the text?

- A. subduction-like processes began occurring in some locations no later than 3.75 bya.
- B. subduction replaced mantle plume formation as the most common geological process by about 4.02 bya.
- C. the majority of the rocks in the Acasta Gneiss Complex formed through subduction.
- D. the rocks in the Acasta Gneiss Complex are of a more recent origin than scientists previously thought.

Biologists have predicted that birds' feather structures vary with habitat temperature, but this hadn't been tested in mountain environments. Ornithologist Sahas Barve studied feathers from 249 songbird species inhabiting different elevations—and thus experiencing different temperatures—in the Himalaya Mountains. He found that feathers of high-elevation species not only have a greater proportion of warming downy sections to flat and smooth sections than do feathers of low-elevation species, but high-elevation species' feathers also tend to be longer, providing a thicker layer of insulation.

Which choice best states the main idea of the text?

- A. Barve's investigation shows that some species of Himalayan songbirds have evolved feathers that better regulate body temperature than do the feathers of other species, contradicting previous predictions.
- B. Barve found an association between habitat temperature and feather structure among Himalayan songbirds, lending new support to a general prediction.
- C. Barve discovered that songbirds have adapted to their environment by growing feathers without flat and smooth sections, complicating an earlier hypothesis.
- D. The results of Barve's study suggest that the ability of birds to withstand cold temperatures is determined more strongly by feather length than feather structure, challenging an established belief.

ID: 2f16288f

The following text is adapted from Robert Louis Stevenson's 1883 novel *Treasure Island*. Bill is a sailor staying at the Admiral Benbow, an inn run by the narrator's parents.

Every day when [Bill] came back from his stroll he would ask if any seafaring men had gone by along the road. At first we thought it was the want of company of his own kind that made him ask this question, but at last we began to see he was desirous to avoid them. When a seaman did [stay] at the Admiral Benbow (as now and then some did) he would look in at him through the curtained door before he entered the parlour; and he was always sure to be as silent as a mouse when any such was present.

According to the text, why does Bill regularly ask about "seafaring men"?

- A. He's hoping to find an old friend and fellow sailor.
- B. He's trying to secure a job as part of the crew on a new ship.
- C. He isn't sure that other guests at the inn will be welcoming of sailors.
- D. He doesn't want to encounter any other sailor unexpectedly.

ID: c7b268c2

Hip-hop pedagogy is a form of teaching that's gaining popularity across school subjects. It involves incorporating hip-hop and rap music into lessons as well as using hip-hop elements when teaching other subject matters. For example, Quan Neloms's students look for college-level vocabulary and historical events in rap songs. Researchers claim that in addition to developing students' social justice awareness, hip-hop pedagogy encourages student success by raising students' interest and engagement.

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

- A. Students tend to be more enthusiastic about rap music than they are about hip-hop music.
- B. Students who are highly interested in social justice issues typically don't sign up for courses that incorporate hip-hop and rap music.
- C. Educators report that they enjoy teaching courses that involve hip-hop and rap music more than teaching courses that don't.
- D. Courses that incorporate hip-hop and rap music are among the courses with the highest enrollment and attendance rates.

ID: 358eef09

It's common for jazz musicians and fans to refer to certain songs as having "swing," indicating that the songs provoke a strong feeling, like the impulse to tap one's foot or dance. The exact acoustic properties that give a song swing, however, have long been thought to be undefinable. To investigate swing, a team led by physicist Corentin Nelias delayed the downbeats and synchronized the offbeats in jazz piano solos and asked jazz musicians to compare the intensity of swing in each modified piece with the intensity of swing in the original piece. They found that participants were more than seven times likelier to characterize the modified songs as having swing than to characterize the original versions as having swing, suggesting that _____

Which choice most logically completes the text?

- A. synchronized offbeats tend to give a song swing regardless of whether downbeats are delayed.
- B. the acoustic properties that give a song swing are not easy for jazz musicians to manipulate.
- C. jazz songs that feature the piano are more likely to have swing than are jazz songs that do not feature the piano.
- D. the timing of downbeats and offbeats may play a crucial role in giving a song swing.

ID: aa4d97d3

Many scientists have believed that giraffes are solitary creatures, preferring to spend their time alone instead of with others. But observations of giraffes and their behavior in recent years has suggested that these animals may be more social than we once thought. For example, scientists Zoe Muller and Stephen Harris claim that giraffes may even help each other care for one another's newborns.

Which finding, if true, would most directly support Muller and Harris's conclusion?

- A. Female giraffes have been observed feeding young giraffes that aren't their direct offspring.
- B. Confrontations between a younger and an older male giraffe are frequently observed.
- C. Some female giraffes have been observed sniffing and licking their newborn offspring.
- D. Giraffes are able to make sounds but are rarely observed communicating with others.

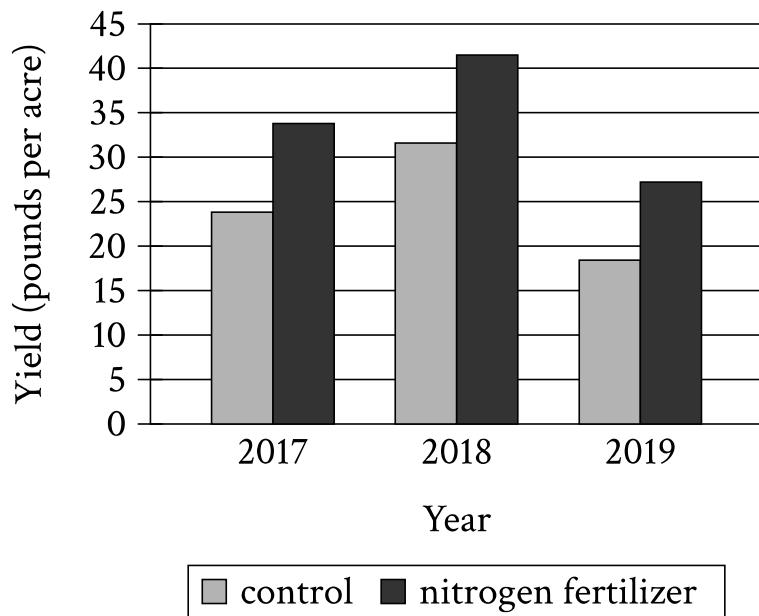
ID: 9a5e205b

Scent is tightly interwoven with our daily lives, often evoking significant memories and important social events. This connection is of growing interest to archaeologists who hope to use it to better understand ancient rituals, trade, social hierarchies, and medicine. Although the speed at which odor molecules dissipate makes identifying ancient scents challenging, advancements in biomolecular technologies show promise in unlocking ancient aromas from preserved artifacts. Archaeological studies making use of these advancements may provide new insights into past societies.

According to the text, what is one reason some archaeologists are interested in recovering scents from ancient artifacts?

- A. They are investigating whether people's sense of smell has declined in recent centuries.
- B. They believe the scents could illuminate important aspects of ancient life.
- C. They think that ancient scents would be enjoyable to people today.
- D. They hope to develop new medicines using ancient scent molecules.

Cantaloupe Yield

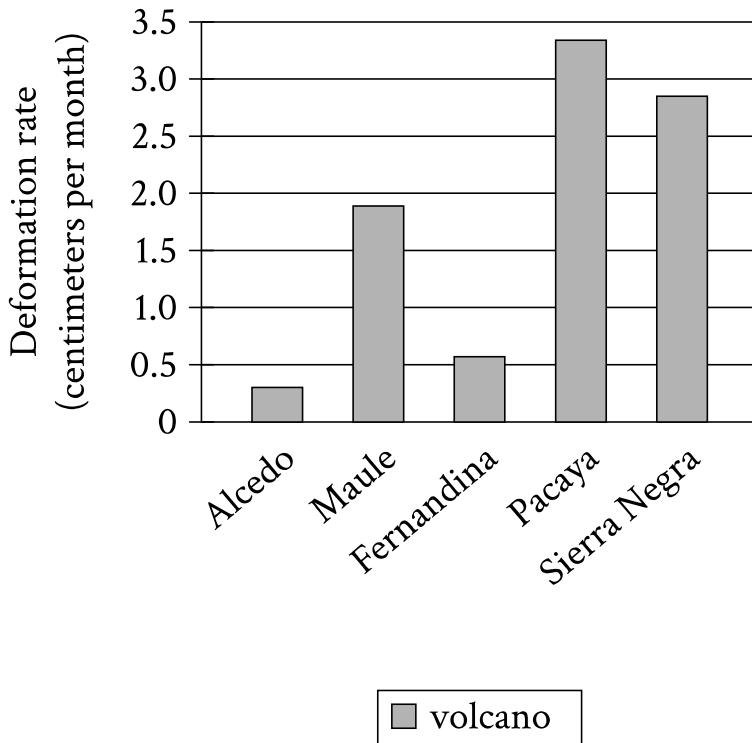


To test the effects of a nitrogen fertilizer on cantaloupe production, researchers grew cantaloupe plants and harvested their fruit over three years. In each year, half the plants were grown using a nitrogen fertilizer, and the other half were grown using a control fertilizer that contained no nitrogen. The researchers concluded that the nitrogen fertilizer increases cantaloupe yield.

Which choice best describes data in the graph that support the researchers' conclusion?

- A. In every year of the experiment, plants treated with the nitrogen fertilizer had a yield of at least 30 pounds per acre.
- B. In every year of the experiment, plants treated with the nitrogen fertilizer had a greater yield than did plants treated with the control fertilizer.
- C. The 2018 yield for plants treated with the control fertilizer was greater than was the 2019 yield for plants treated with the nitrogen fertilizer.
- D. The yield for plants treated with the nitrogen fertilizer increased from 2017 to 2018.

Deformation Rate of Five Volcanoes



When magma moves underneath a volcano, it causes the surface of the volcano to change. This is known as deformation. Researchers recently calculated the amount of deformation occurring each month for five volcanoes in Latin America. Although Sierra Negra experienced a lot of deformation, its deformation rate was still lower than that of _____.

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

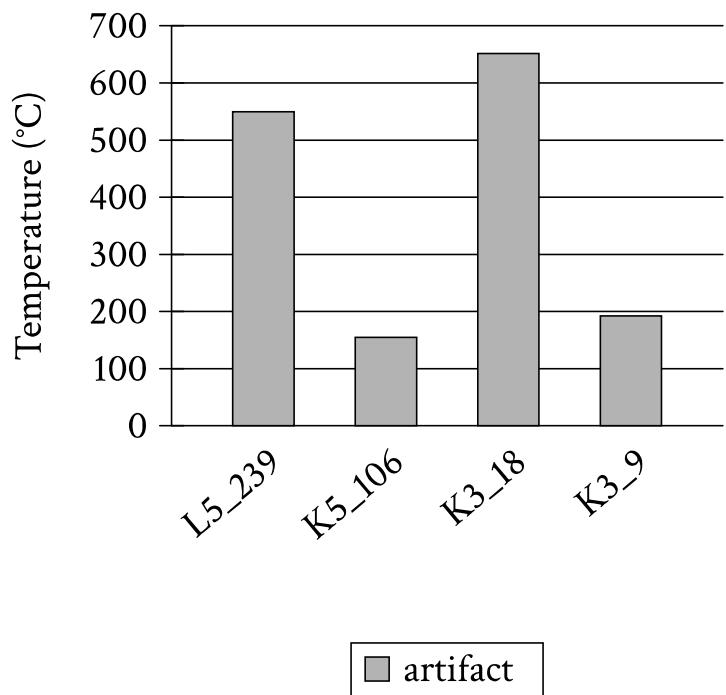
- A. Alcedo.
- B. Pacaya.
- C. Fernandina.
- D. Maule.

"The Rock and the Sea" is an 1893 poem by Charlotte Perkins Gilman. In the poem, a rock is portrayed as intending to confront and restrain the sea: _____

Which quotation from "The Rock and the Sea" most effectively illustrates the claim?

- A. "I am the Rock. Black midnight falls; / The terrible breakers rise like walls; / With curling lips and gleaming teeth / They plunge and tear at my bones beneath."
- B. "I am the Sea. I hold the land / As one holds an apple in his hand, / Hold it fast with sleepless eyes, / Watching the continents sink and rise."
- C. "I am the Rock, presumptuous Sea! / I am set to encounter thee. / Angry and loud or gentle and still, / I am set here to limit thy power, and I will!"
- D. "I am the Sea. The earth I sway; / Granite to me is potter's clay; / Under the touch of my careless waves / It rises in turrets and sinks in caves."

Estimated Temperatures to which Evron Quarry Artifacts Were Exposed



Flint artifacts dating to 800,000 to 1,000,000 years ago have been recovered from the Evron Quarry in Israel. Likely created by the hominin *Homo erectus*, the artifacts have no visual features suggesting that they were exposed to fire, leading some scholars to conclude that these hominins had not acquired control of fire. But Zane Stepka and colleagues recently used a new method to determine whether these artifacts had been exposed to temperatures above 400°C (the typical temperature campfires reach) and concluded that the hominins who inhabited the site may have had control of fire.

Which choice best describes data in the graph that support the team's conclusion?

- A. Artifacts K5_106 and K3_9 were exposed to temperatures above 400°C.
- B. Artifacts L5_239 and K3_18 were exposed to temperatures of approximately 550°C and 650°C, respectively.
- C. All of the artifacts were exposed to temperatures above 100°C.
- D. Artifact K3_9 was exposed to a higher temperature than was artifact K5_106.

ID: 4cf4ab2

The following text is from Shyam Selvadurai's 1994 novel *Funny Boy*. The seven-year-old narrator lives with his family in Sri Lanka. Radha Aunty is the narrator's aunt.

Radha Aunty, who was the youngest in my father's family, had left for America four years ago when I was three, and I could not remember what she looked like. I went into the corridor to look at the family photographs that were hung there. But all the pictures were old ones, taken when Radha Aunty was a baby or young girl. Try as I might, I couldn't get an idea of what she looked like now. My imagination, however, was quick to fill in this void.

©1994 by Shyam Selvadurai.

According to the text, why does the narrator consult some family photographs?

- A. He wants to use the photographs as inspiration for a story he is writing.
- B. He is curious about how his father dressed a long time ago.
- C. He hopes the photographs will help him recall what his aunt looked like.
- D. He wants to remind his aunt of an event that is shown in an old photograph.

Percent of Residents of City Areas in Favor of Adding More Bike Paths

City Area	Percent of area's residents in favor of adding more bike paths
North East	12%
North Central	26%
North West	46%
South West	88%
South Central	33%

A city's Parks and Recreation department is interested in providing residents with more opportunities for bicycling in their neighborhoods. They're considering adding more bike paths and conducted a survey to understand where demand for more bike paths is highest. The survey indicated the highest level of demand, with 88 percent of the residents interested in adding more bike paths, is in the city's _____.

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

- A. South West area.
- B. South Central area.
- C. North East area.
- D. North Central area.

ID: 0ee9dd5d

Artist Justin Favela explained that he wanted to reclaim the importance of the piñata as a symbol in Latinx culture. To do so, he created numerous sculptures from strips of tissue paper, which is similar to the material used to create piñatas. In 2017, Favela created an impressive life-size piñata-like sculpture of the Gypsy Rose lowrider car, which was displayed at the Petersen Automotive Museum in Los Angeles, California. The Gypsy Rose lowrider was famously driven by Jesse Valadez, an early president of the Los Angeles Imperials Car Club.

According to the text, which piece of Favela's art was on display in the Petersen Automotive Museum in 2017?

- A. A painting of Los Angeles
- B. A sculpture of a lowrider car
- C. A painting of a piñata
- D. A sculpture of Jesse Valadez

ID: 787729f7

Researchers recently found that disruptions to an enjoyable experience, like a short series of advertisements during a television show, often increase viewers' reported enjoyment. Suspecting that disruptions to an unpleasant experience would have the opposite effect, the researchers had participants listen to construction noise for 30 minutes and anticipated that those whose listening experience was frequently interrupted with short breaks of silence would thus _____

Which choice most logically completes the text?

- A. find the disruptions more irritating as time went on.
- B. rate the listening experience as more negative than those whose listening experience was uninterrupted.
- C. rate the experience of listening to construction noise as lasting for less time than it actually lasted.
- D. perceive the volume of the construction noise as growing softer over time.

ID: 5b3e644c

Microbes that live in shallow lakes and ponds produce methane, a harmful greenhouse gas. Ecologist Ralf Aben and his team wanted to see how different types of shallow-water plants might affect the amount of methane that escapes into the atmosphere. Aben's team set up some water tanks with soil and microbes from local ponds. Some tanks had a type of underwater plant that grows in the soil called watermilfoil. Other tanks had either duckweed, a type of plant that floats on the water's surface, or algae. Aben and his team found that tanks with duckweed and algae released higher levels of methane than tanks with watermilfoil did. This finding suggests that _____.

Which choice most logically completes the text?

- A. the presence of some kinds of underwater plants like watermilfoil helps prevent methane from escaping shallow lakes and ponds.
- B. shallow lakes and ponds release more methane than deeper bodies of water because shallow bodies of water usually have more plants than deep bodies of water do.
- C. shallow lakes and ponds are more likely to contain algae than to contain either watermilfoil or duckweed.
- D. having a mix of algae, underwater plants, and floating plants is the best way to reduce the amount of methane in shallow lakes and ponds.

ID: a9aa25f9

"Gestures" in painting are typically thought of as bold, expressive brushstrokes. In the 1970s, American painter Jack Whitten built a 12-foot (3.7-meter) tool he named the "developer" to apply paint to an entire canvas in one motion, resulting in his series of "slab" paintings from that decade. Whitten described this process as making an entire painting in "one gesture," signaling a clear departure from the prevalence of gestures in his work from the 1960s. Some art historians claim this shift represents "removing gesture" from the process. Therefore, regardless of whether using the developer constitutes a gesture, both Whitten and these art historians likely agree that _____

Which choice most logically completes the text?

- A. any tool that a painter uses to create an artwork is capable of creating gestures.
- B. Whitten's work from the 1960s exhibits many more gestures than his work from the 1970s does.
- C. Whitten became less interested in exploring the role of gesture in his work as his career progressed.
- D. Whitten's work from the 1960s is much more realistic than his work from the 1970s is.

ID: cec9c34f

A museum curator is writing a biographical statement about Trinidadian-born Chinese dancer, choreographer, and teacher Dai Ailian for a new exhibit on Chinese dance. The curator claims that some of the pieces Dai created shortly after arriving in mainland China in 1941, such as the solo dance *Yao Drum*, reflect a desire to represent the dances of local communities Dai visited during her travels through China.

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

- A. "There is no sound or music accompanying Dai's movements in *Yao Drum*, aside from the sounds of drumsticks beating against a drum and against each other."
- B. "Unlike some of the works Dai created in the early 1940s, *Yao Drum* does not feature a narrative structure, humorous elements, or references to real-life events."
- C. "*Yao Drum* was inspired by a ceremonial dance Dai witnessed during her time performing field research among the Yao people in the province of Guizhou in 1941 or 1942."
- D. "*Yao Drum* is notable for its intense physicality, with Dai performing sharp jumps, swift turns, and dramatic sweeps of her legs through the air as she moves in circles on the stage."

ID: 97042cf6

As the name suggests, dramaturges originated in theater, where they continue to serve a variety of functions: conducting historical research for directors, compiling character biographies for actors, and perhaps most importantly, helping writers of plays and musicals to hone the works' stories and characters. Performance scholar Susan Manning observes that many choreographers, like playwrights and musical theater writers, are concerned with storytelling and characterization. In fact, some choreographers describe the dances they create as expressions of narrative through movement; it is therefore unsurprising that _____

Which choice most logically completes the text?

- A. dramaturges can have a profound impact on the artistic direction of plays and musicals.
- B. choreographers developing dances with narrative elements frequently engage dramaturges to assist in refining those elements.
- C. dances by choreographers who incorporate narrative elements are more accessible to audiences than dances by choreographers who do not.
- D. some directors and actors rely too heavily on dramaturges to complete certain research tasks.

ID: 823f6c65

A heliograph is a semaphore device used for sending optical communications—usually in the form of Morse code—by reflecting flashes of sunlight off a mirror. Heliographs were used for rapid communication across expansive distances for military, surveying, and forestry purposes during the late nineteenth and early twentieth centuries, but they were largely effective only during the daytime, and the range of the device depended on factors such as the opacity of the air and line of sight. Therefore, heliographs were eventually replaced by technology that _____

Which choice most logically completes the text?

- A. worked on similar principles but was easier to produce and maintain.
- B. was not so constrained by environmental circumstances.
- C. could be used for more than military, surveying, or forestry purposes.
- D. enabled communication that didn't require knowledge of Morse code.

Sense and Sensibility is an 1811 novel by Jane Austen. In the novel, Austen describes Marianne Dashwood's ability to persuade others of the rightness of her artistic judgments, as is evident when Marianne visits with John Willoughby, a potential suitor: _____

Which quotation from *Sense and Sensibility* most effectively illustrates the claim?

- A. "Above all, when she heard him declare, that of music and dancing he was passionately fond, she gave him such a look of approbation as secured the largest share of his discourse to herself for the rest of his stay."
- B. "Their taste was strikingly alike. The same books, the same passages were idolized by each—or if any difference appeared, any objection arose, it lasted no longer than till the force of her arguments and the brightness of her eyes could be displayed."
- C. "It was only necessary to mention any favourite amusement to engage her to talk. She could not be silent when such points were introduced, and she had neither shyness nor reserve in their discussion."
- D. "They speedily discovered that their enjoyment of dancing and music was mutual, and that it arose from a general conformity of judgment in all that related to either. Encouraged by this to a further examination of his opinions, she proceeded to question him on the subject of books."

ID: 6daa3ef5

"On Virtue" is a 1766 poem by Phillis Wheatley. Wheatley addresses the poem directly to the quality of virtue, imploring it to assist her in reaching a future goal: _____

Which quotation from "On Virtue" most effectively illustrates the claim?

- A. "Attend me, *Virtue*, thro' my youthful years! / O leave me not to the false joys of time! / But guide my steps to endless life and bliss."
- B. "I cease to wonder, and no more attempt / Thine height t'explore, or fathom thy profound."
- C. "O thou bright jewel in my aim I strive / To comprehend thee. Thine own words declare / Wisdom is higher than a fool can reach."
- D. "But, O my soul, sink not into despair, / *Virtue* is near thee, and with gentle hand / Would now embrace thee, hovers o'er thine head."

ID: b00c53b3

Henry Ossawa Tanner's 1893 painting *The Banjo Lesson*, which depicts an elderly man teaching a boy to play the banjo, is regarded as a landmark in the history of works by Black artists in the United States. Scholars should be cautious when ascribing political or ideological values to the painting, however: beliefs and assumptions that are commonly held now may have been unfamiliar to Tanner and his contemporaries, and vice versa. Scholars who forget this fact when discussing *The Banjo Lesson* therefore _____

Which choice most logically completes the text?

- A. risk judging Tanner's painting by standards that may not be historically appropriate.
- B. tend to conflate Tanner's political views with those of his contemporaries.
- C. forgo analyzing Tanner's painting in favor of analyzing his political activity.
- D. wrongly assume that Tanner's painting was intended as a critique of his fellow artists.

ID: b5c05ec8

Off-off-Broadway theaters emerged in the late 1950s as a rebellion against mainstream Broadway theaters in New York, freeing artists to create productions that were more experimental than typical Broadway shows. One such artist was playwright María Irene Fornés. Working with off-off Broadway theaters enabled Fornés not only to direct her own plays but also to direct them exactly as she intended them to be staged, regardless of how strange the results might have seemed to audiences accustomed to Broadway shows. In this way, Fornés _____

Which choice most logically completes the text?

- A. wrote plays that would have been too expensive to produce if someone else had directed the production.
- B. recognized that staging an off-off-Broadway play was more complicated than staging a Broadway play.
- C. would have been more famous if she had created plays that were mainstream instead of experimental.
- D. illustrates the artistic opportunity offered by off-off Broadway theaters.

ID: be184fba

Correlations Between Congestion Ratings and Features of the Crowd in Raters' Immediate Vicinity

Crowd feature	Before obstacle	After obstacle	Overall
Density	0.8592	0.7308	0.7447
Velocity	-0.9357	-0.9518	-0.8587

Researcher Xiaolu Jia and colleagues monitored individuals' velocity and the surrounding crowd density as a group of study participants walked through a space and navigated around an obstacle. Participants rated how congested it seemed before the obstacle, after the obstacle, and overall, and the researchers correlated those ratings with velocity and density. (Correlations range from -1 to 1, with greater distance from 0 indicating greater strength). The researchers concluded that the correlations with velocity are stronger than those with density.

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

- A. The correlation between congestion ratings before the obstacle and density is further from 0 than the correlation between overall congestion rating and velocity is.
- B. The correlation between congestion ratings before the obstacle and velocity is further from 0 than the correlation between congestion overall and velocity is.
- C. For each of the three ratings, the correlation with velocity is negative while the correlation with density is positive.
- D. For each of the three ratings, correlations with velocity are further from 0 than the corresponding correlations with density are.

ID: 8ee78de3

Alice Guy-Blaché directed hundreds of films between 1896 and 1920. She wanted audiences to feel like they were watching real people on screen. She would encourage actors in her films to behave naturally. Guy-Blaché even hung a large sign reading “Be Natural” in the studio where she made her films. At the time, films lacked sound, so actors needed to rely solely on their bodies and facial expressions to convey emotions. As a result, actors tended to highly exaggerate their actions and expressions. The style of acting in Guy-Blaché’s films was therefore _____

Which choice most logically completes the text?

- A. copied by many of Guy-Blaché’s peers.
- B. familiar to actors who had worked on other directors’ films.
- C. very unusual for the period.
- D. better than film acting today.

ID: af5e270c

"Valia" is a 1907 short story by Leonid Andreyev. In the story, the author emphasizes that the setting where the character Valia is reading is nearly silent: _____

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

- A. "The hand in which he carried his book was getting stiff with cold, but he would not ask his mother to take the book from him."
- B. "Valia was reading a huge, very huge book, almost half as large as himself."
- C. "Valia approached the window and examined the toys."
- D. "Everything in the room was quiet, so quiet that the only thing to be heard was the rustling of the pages he turned."

ID: 42ffc043

In many cultures, a handshake can create trust between people. Engineer João Avelino and his team are designing a robot to shake hands with a human in order to improve human-robot interactions. The robot hand adjusts its movements and pressure to better imitate the feel of a human hand. The researchers want the robot's handshake to feel realistic because _____

Which choice most logically completes the text?

- A. lifelike handshakes may make people more comfortable interacting with robots.
- B. it's easier to program a robot to perform handshakes than it is to program a robot to perform some other types of greetings.
- C. people are less likely to interact with robots that don't look like humans.
- D. the robot in the researchers' study may have uses other than interacting with humans.

ID: c2a31848

Roasted green chiles are a popular ingredient in Southwestern cuisine, but the traditional roasting method of burning propane is not environmentally friendly. To see if solar power could provide a better alternative, engineer Kenneth Armijo and his team roasted batches of green chiles using between 38 and 42 heliostats, which are devices that concentrate sunlight. The team was successful in reaching the same roasting temperature used in traditional propane roasting, but they found that propane yielded faster results. While the fastest solar-roasted green chiles took six minutes, batches using propane took only four. Armijo hypothesizes that they can reduce the roasting time for solar-roasted green chiles by using more heliostats.

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

- A. The temperature inside the roasting drum is distributed more evenly when roasting green chiles with solar power than with propane.
- B. Attempts to roast green chiles using 50 heliostats yields results in fewer than six minutes.
- C. Green chile connoisseurs prefer the flavor of solar-roasted green chiles over the flavor of propane-roasted green chiles.
- D. The skins of solar-roasted green chiles are easier to peel than the skins of propane-roasted green chiles.

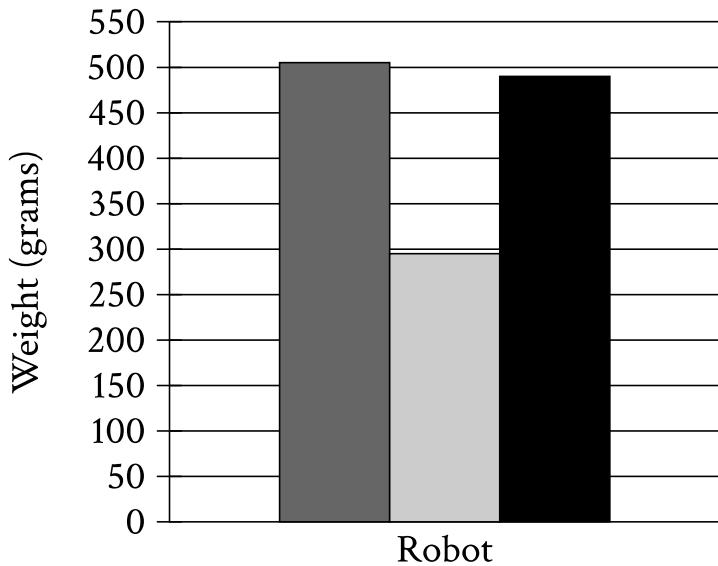
ID: 497015e1

For centuries, the widespread acknowledgment of the involvement of the cerebellum—a dense brain structure in vertebrates—in coordinating motor control in humans has hindered recognition of other possible functions of the structure. Neuroscience research from the last two decades now suggests that the cerebellum regulates emotion and social behavior, and recent research by Ilaria Carta and colleagues has identified a pathway connecting the cerebellum to a center for motivation and reward processing known as the ventral tegmental area (VTA).

Which choice best states the main idea of the text?

- A. The recent verification of a pathway between the VTA and the cerebellum confirms the cerebellum's long-suspected role in motor coordination.
- B. Recent advances in the field of neuroscience have challenged widely accepted claims about the function of a pathway connecting the VTA and the cerebellum.
- C. The cerebellum has primarily been thought to regulate motor functioning, but in recent years neuroscience researchers have been uncovering additional functions.
- D. Technological limitations have historically hindered the study of the cerebellum, but the recent development of new technologies has led to greater insights into its functions.

Weight of Three Aerial Robots



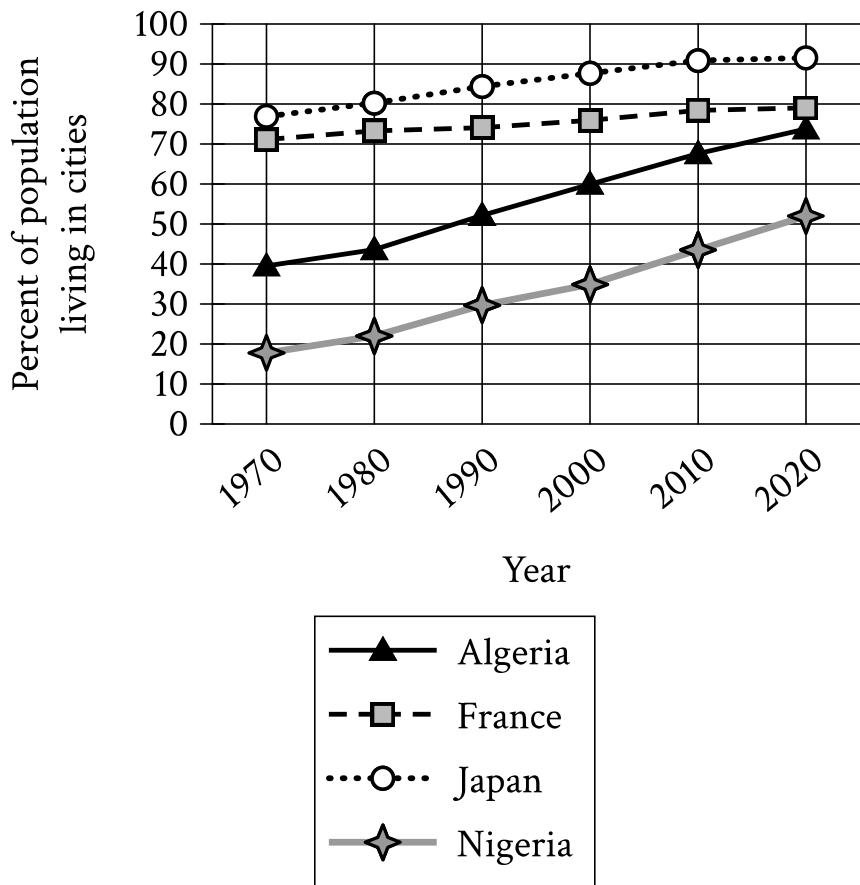
- Ultra-Fast Robot Hand
- Permanent Magnet Hand
- Yale Model T

Aerial robots vary considerably in their holding force; the Ultra-Fast Robot Hand, for example, has a holding force of 56 newtons, more than twice that of the Permanent Magnet Hand and more than four times that of the Yale Model T. Since an aerial robot must lift its own weight along with its cargo, engineer Jiawei Meng and colleagues used a ratio of each robot's holding force to the robot's weight to calculate payload capacity, with higher ratios corresponding to greater capacity, concluding that the Ultra-Fast Robot Hand has a higher payload capacity than the Yale Model T.

Which choice best describes data in the graph that support Meng and colleagues' conclusion?

- A. The Ultra-Fast Robot Hand and the Yale Model T each weigh more than 450 grams.
- B. The Ultra-Fast Robot Hand and the Yale Model T each weigh more than the Permanent Magnet Hand does.
- C. The Yale Model T has a lower holding force than the Permanent Magnet Hand despite weighing more.
- D. The Ultra-Fast Robot Hand weighs only slightly more than the Yale Model T does.

Urban Population of Algeria, France, Japan, and Nigeria



The share of the world's population living in cities has increased dramatically since 1970, but this change has not been uniform. France and Japan, for example, were already heavily urbanized in 1970, with 70% or more of the population living in cities. The main contributors to the world's urbanization since 1970 have been countries like Algeria, whose population went from _____

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

- A. around 50% urban in 1970 to around 90% urban in 2020.
- B. less than 40% urban in 1970 to around 90% urban in 2020.
- C. less than 20% urban in 1970 to more than 50% urban in 2020.
- D. around 40% urban in 1970 to more than 70% urban in 2020.

ID: a6a6d037

The Haitian Declaration of Independence was issued in 1804, bringing to an end the revolution against colonial France that began in 1791. Written in French, which was not the first language of most Haitians but which was used throughout Europe as the language of international diplomacy, the declaration notes that Haiti will not bring rebellion to other Caribbean nations, promises to respect the sovereignty of its neighbors—widely understood as a reassurance to the United States—and sets up Haiti as an example for future struggles against colonizers (an implicit reference to the many colonies then found in the Americas). So even though the declaration is explicitly addressed to the Haitian people, it's reasonable to conclude that _____

Which choice most logically completes the text?

- A. aspects of the declaration were modeled on similar documents from other countries.
- B. the French government may have been surprised by the declaration.
- C. many Haitian people opposed the revolution and the declaration.
- D. the declaration actually had several intended audiences.

ID: d3d6290e

Arthur Conan Doyle's stories about detective Sherlock Holmes were published between 1887 and 1927. They have inspired countless successful adaptations, including comic strips, movies, and a television series *Sherlock Hound*, directed by Hayao Miyazaki, who is celebrated for his animated movies. Until 2014, these stories were copyrighted. The right to adapt was only available to those who could afford the copyright fee and gain approval from the strict copyright holders of Doyle's estate. Some journalists predict that the number of Sherlock Holmes adaptations is likely to increase since the end of copyright means that _____

Which choice most logically completes the text?

- A. Doyle's original stories will become hard to find.
- B. people will become more interested in detective stories than they were in the 1800s.
- C. producing adaptations will become easier and less expensive.
- D. the former copyright holders of Doyle's estate will return fees they collected.

ID: af117e6b

Microplastics are pieces of plastic that are smaller than a grain of rice. These small plastics can be found in large quantities in ocean waters. Ecologist Jessica Reichert and her team are studying the role reef-building corals have in capturing microplastics from ocean waters. Through research, her team has found that these corals may be storing up to 20 million kilograms of microplastics each year in their skeletons and tissues.

Which choice best states the main idea of the text?

- A. Ecologists are interested in learning more about how certain corals build large reefs.
- B. Questions remain around the impact certain corals have on ocean ecosystems.
- C. Microplastics are small pieces of plastic that can be found in ocean waters.
- D. Ecologists predict that corals store large amounts of microplastics from ocean waters.

ID: 6760c788

In the 1980s, many musicians and journalists in the English-speaking world began to draw attention to music from around the globe—such as mbaqanga from South Africa and quan họ from Vietnam—that can't be easily categorized according to British or North American popular music genres, typically referring to such music as “world music.” While some scholars have welcomed this development for bringing diverse musical forms to prominence in countries where they'd previously been overlooked, musicologist Su Zheng claims that the concept of world music homogenizes highly distinct traditions by reducing them all to a single category.

Which finding about mbaqanga and quan họ, if true, would most directly support Zheng's claim?

- A. Mbaqanga and quan họ developed independently of each other and have little in common musically.
- B. Mbaqanga is significantly more popular in the English-speaking world than quan họ is.
- C. Mbaqanga and quan họ are now performed by a diverse array of musicians with no direct connections to South Africa or Vietnam.
- D. Mbaqanga and quan họ are highly distinct from British and North American popular music genres but similar to each other.

The following text is adapted from Edgar Allan Poe's 1849 story "Landor's Cottage."

During a pedestrian trip last summer, through one or two of the river counties of New York, I found myself, as the day declined, somewhat embarrassed about the road I was pursuing. The land undulated very remarkably; and my path, for the last hour, had wound about and about so confusedly, in its effort to keep in the valleys, that I no longer knew in what direction lay the sweet village of B—, where I had determined to stop for the night.

Which choice best states the main idea of the text?

- A. The narrator remembers a trip he took and admits to getting lost.
- B. The narrator recalls fond memories of a journey that he took through some beautiful river counties.
- C. The narrator describes what he saw during a long trip through a frequently visited location.
- D. The narrator explains the difficulties he encountered on a trip and how he overcame them.

ID: 8d0a6f85

In addition to her technical skill and daring feats, American stunt pilot Bessie Coleman was also known for dazzling the crowds that came to watch her air shows in the 1920s with her exuberant personality. During her career, she was careful and purposeful about how she crafted her public persona. An aviation researcher has claimed that Coleman intentionally defied social norms of the time by how she chose to present herself to the public.

Which quotation from an article about Coleman would most directly support the aviation researcher's claim?

- A. "For her air shows, Coleman frequently used the Curtiss JN-4, or 'Jenny,' which at that time was one of the most well-known types of planes."
- B. "While Coleman was beloved by spectators for her charisma, she had a more complicated relationship with her managers and staff, who at times found her behavior too impulsive and demanding."
- C. "Coleman once considered leaving her career as a stunt pilot to focus her efforts on giving speeches, which she felt would better support her public image."
- D. "Although female pilots were typically expected to wear traditional but impractical attire that included dresses or skirts, photographs of Coleman show her wearing pants and leather jackets."

Corn-Related Vocabulary in Various Southeastern Languages

Language family	Word (language)	English translation	Proposed origin in vocabulary of the Totozoquean language family
Muskogean	tanchi' (Chickasaw); tanchi (Choctaw); vce (Muscogee, pronounced "uh-chi")	corn	no
Iroquoian	se-lu (Cherokee)	corn	no
Caddoan	-k'as- (Caddo)	dried corn	yes
Chitimacha	k'asma (Chitimacha)	corn	yes

In Caddo, a language from what is now the US Southeast, vocabulary pertaining to corn cultivation resembles equivalent vocabulary in the Totozoquean language family in Mexico. This resemblance is perhaps attributable to cultural contact: such words could have entered Caddo through the intermediary of the neighboring but unrelated Chitimacha language, concurrent with the dissemination of corn itself from Mexico into the Southeast after 700 CE. That the vocabulary pertaining to domestic crops accompanies them as they diffuse into new regions is an established phenomenon globally. Crops may also be decoupled from vocabulary altogether: corn cultivation became ubiquitous among the Southeastern tribes, yet _____.

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

- A. the origins of vocabulary pertaining to the crop vary across languages in the region, with the words for corn in Cherokee and the Muskogean languages showing no demonstrable relationship to Totozoquean vocabulary.
- B. the region is linguistically diverse, being home not only to Chitimacha and Caddo, but also to the Muskogean language family (including Chickasaw, Choctaw, and Muscogee) and to one Iroquoian language (Cherokee).
- C. corn-related vocabulary underwent changes when entering other, unrelated languages, as can be seen by the divergence of the Caddo word from the Chitimacha word it originated in.
- D. words for corn in the languages of the Muskogean family evolved from a common root, with the Muscogee word having lost certain consonant sounds still present in the Chickasaw and Choctaw words.

Barchester Towers is an 1857 novel by Anthony Trollope. In the novel, Trollope's portrayal of Dr. Proudie underscores the character's exaggerated sense of his own abilities: _____

Which quotation from *Barchester Towers* most effectively illustrates the claim?

- A. "It must not...be taken as proved that Dr. Proudie was a man of great mental powers, or even of much capacity for business, for such qualities had not been required in him."
- B. "[Dr. Proudie] was comparatively young, and had, as he fondly flattered himself, been selected as possessing such gifts, natural and acquired, as must be sure to recommend him to a yet higher notice."
- C. "[Dr. Proudie's] residence in the metropolis, rendered necessary by duties thus entrusted to him, his high connexions, and the peculiar talents and nature of the man, recommended him to persons in power."
- D. "[Dr. Proudie] was certainly possessed of sufficient tact to answer the purpose for which he was required without making himself troublesome."

ID: 5ead8efc

Matthew D. Rocklage and team examined whether consumer ratings of movies can predict box office success. The team considered both numeric star ratings and written reviews in their research. To analyze the written reviews, the team measured the emotionality—the degree to which a written review expresses an emotional reaction—of user reviews on a movie rating website, assigning each review an emotionality score. After reviewing this research, a student argues that the emotionality of movie reviews is unrelated to a movie's success at the box office.

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

- A. Movies that had the highest average emotionality scores received the lowest average star ratings on the movie rating website.
- B. The average emotionality score of a movie's reviews was a positive predictor of that movie's box office earnings.
- C. More than half of the movies that the team examined received an average star rating of 3 out of 5 stars.
- D. The movies that were most successful at the box office tended to have high average star ratings.

ID: ef8f7d25

Archaeologists have been debating the origin of a rare form of lead found in Shang dynasty (1766–1046 BCE) bronze artifacts since its presence was discovered in China in the 1990s. Different researchers have proposed theories on which regions of the world would have had the raw materials containing the specific lead in these artifacts, but no conclusive evidence has been presented. What is intriguing is that bronze artifacts from China dated after the Shang dynasty do not contain this form of lead, suggesting that _____

Which choice most logically completes the text?

- A. Shang dynasty bronze pieces are rare and therefore more valuable than those from other time periods.
- B. the source of some of the raw materials used to make bronze was exploited only until the end of the Shang dynasty.
- C. bronze was used for a short time during the Shang dynasty before different metals were used to make artifacts.
- D. methods used to analyze bronze artifacts are not useful on pieces that are dated after the Shang dynasty.

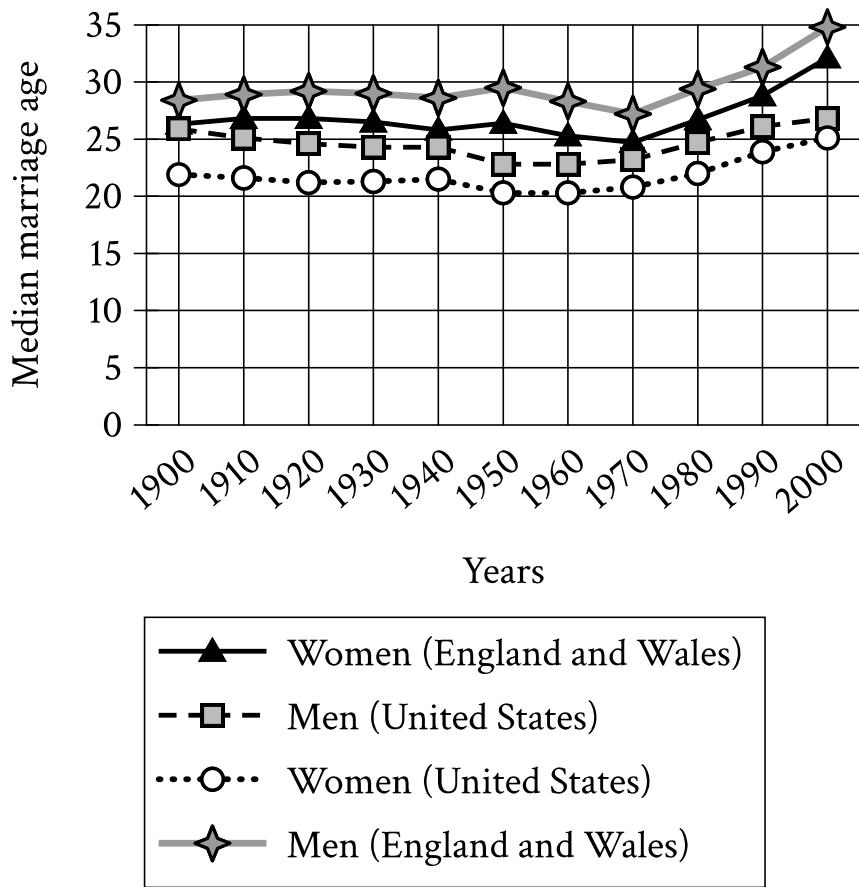
ID: 01d4dfd9

Marta Coll and colleagues' 2010 Mediterranean Sea biodiversity census reported approximately 17,000 species, nearly double the number reported in Carlo Bianchi and Carla Morri's 2000 census—a difference only partly attributable to the description of new invertebrate species in the interim. Another factor is that the morphological variability of microorganisms is poorly understood compared to that of vertebrates, invertebrates, plants, and algae, creating uncertainty about how to evaluate microorganisms as species. Researchers' decisions on such matters therefore can be highly consequential. Indeed, the two censuses reported similar counts of vertebrate, plant, and algal species, suggesting that _____

Which choice most logically completes the text?

- A. Coll and colleagues reported a much higher number of species than Bianchi and Morri did largely due to the inclusion of invertebrate species that had not been described at the time of Bianchi and Morri's census.
- B. some differences observed in microorganisms may have been treated as variations within species by Bianchi and Morri but treated as indicative of distinct species by Coll and colleagues.
- C. Bianchi and Morri may have been less sensitive to the degree of morphological variation displayed within a typical species of microorganism than Coll and colleagues were.
- D. the absence of clarity regarding how to differentiate among species of microorganisms may have resulted in Coll and colleagues underestimating the number of microorganism species.

Median Ages of First Marriage for Men
and Women in the United States and
in England and Wales, 1900–2000



A sociology student is reading an essay on the median age of first marriage in Western countries throughout the twentieth century. The author of the essay cites factors common to these countries that the author believes caused an increase in the median age of first marriage, such as new technologies that shortened the time needed for domestic chores, making two-person households less necessary and living alone more viable. The student asserts that beyond these factors there must be additional ones specific to particular Western countries that influenced the increase of age at first marriage.

Which choice most effectively uses data from the graph that support the student's assertion?

- A. Between 1970 and 2000, the median age of first marriage rose more sharply for men in England and Wales than it did for men in the United States.
- B. In England and Wales, the median age of first marriage was consistently higher for men than for women between 1900 and 2000, but this was not always the case in the United States.
- C. The median age of first marriage for men in England and Wales was lower in 1970 than in 1950 or 1990.
- D. Between 1900 and 2000, the median age of first marriage for women in England and Wales was consistently higher than for women in the United States, as was the case for men.

ID: 883e22fb

NASA's *Cassini* probe has detected an unusual wobble in the rotation of Mimas, Saturn's smallest moon. Using a computer model to study Mimas's gravitational interactions with Saturn and tidal forces, geophysicist Alyssa Rhoden and colleagues have proposed that this wobble could be due to a liquid ocean moving beneath the moon's icy surface. The researchers believe other moons should be examined to see if they too might have oceans hidden beneath their surfaces.

Which choice best states the main idea of the text?

- A. Rhoden and colleagues were the first to confirm that several of Saturn's moons contain hidden oceans.
- B. Research has failed to identify signs that there is an ocean hidden beneath the surface of Mimas.
- C. Rhoden and colleagues created a new computer model that identifies moons with hidden oceans without needing to analyze the moons' rotation.
- D. Research has revealed that an oddity in the rotation of Mimas could be explained by an ocean hidden beneath its surface.

ID: 8174f406

Martin Dančák, Wewin Tjiasmanto, and colleagues have identified a new carnivorous plant species (*Nepenthes pudica*) in Indonesia. Like other carnivorous plants, *N. pudica* has pitfall traps, or pitchers, that capture prey, but unlike others, the pitchers of *N. pudica* are located underground. The researchers unearthed the new species on fairly dry ridges with surfaces that host few other plants and animals. Therefore, the researchers hypothesize that the *N. pudica* species likely _____

Which choice most logically completes the text?

- A. represents one of many undiscovered carnivorous plant species in the region.
- B. formed pitchers early in development to absorb more moisture.
- C. is buried by nearby animals as they forage along the ridges for food.
- D. evolved to have underground traps to access more prey than would surface traps.

ID: 695c3f5f

In 2022, researchers rediscovered ancient indigenous glyphs, or drawings, on the walls of a cave in Alabama. The cave's ceiling was only a few feet high, affording no position from which the glyphs, being as wide as ten feet, could be viewed or photographed in their entirety. However, the researchers used a technique called photogrammetry to assemble numerous photos of the walls into a 3D model. They then worked with representatives of tribes originally from the region, including the Chickasaw Nation, to understand the significance of the animal and humanoid figures adorning the cave.

According to the text, what challenge did the researchers have to overcome to examine the glyphs?

- A. The cave was so remote that the researchers couldn't easily reach it.
- B. Some of the glyphs were so faint that they couldn't be photographed.
- C. The researchers were unable to create a 3D model of the cave.
- D. The cave's dimensions prevented the researchers from fully viewing the glyphs.

ID: cdbcb6d4

To better understand the burrowing habits of *Alpheus bellulus* (the tiger pistol shrimp), some studies have used resin casting to obtain precise measurements of the shrimps' burrows. Resin casting involves completely filling an empty burrow with a liquid plastic that hardens to create a three-dimensional model; however, recovering the model inevitably requires destroying the burrow. In their 2022 study, Miyu Umebara and colleagues discovered that an x-ray computed tomography (CT) scanner can accurately record a burrow's measurements both at a moment in time and throughout the entire burrow-building process, something that's impossible with resin casting because _____

Which choice most logically completes the text?

- A. it can only be used on burrows below a certain size.
- B. it does not allow for multiple castings of the same burrow over time.
- C. the casting process takes more time than *A. bellulus* takes to construct a burrow.
- D. the process of recovering the model distorts the resin's shape.

ID: 64f87faf

In many of his sculptures, artist Richard Hunt uses broad forms rather than extreme accuracy to hint at specific people or ideas. In his first major work, *Arachne* (1956), Hunt constructed the mythical character Arachne, a weaver who was changed into a spider, by welding bits of steel together into something that, although vaguely human, is strange and machine-like. And his large bronze sculpture *The Light of Truth* (2021) commemorates activist and journalist Ida B. Wells using mainly flowing, curved pieces of metal that create stylized flame.

Which choice best states the text's main idea about Hunt?

- A. He often depicts the subjects of his sculptures using an unrealistic style.
- B. He uses different kinds of materials depending on what kind of sculpture he plans to create.
- C. He tends to base his art on important historical figures rather than on fictional characters.
- D. He has altered his approach to sculpture over time, and his works have become increasingly abstract.

ID: 45391bbf

As a monthly newsletter formed in 1969 by a group of Asian American students at the University of California, Los Angeles, *Gidra* helped raise awareness about social and political issues concerning the Asian American community on campus and at large. The newsletter had an expansive reach for a publication of its kind: around 4,000 copies were published each month. A student writing a history paper, however, hypothesizes that *Gidra*'s influence cannot be measured by the number of newsletters published monthly alone.

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

- A. The students who initially formed *Gidra* each contributed financially to its creation.
- B. In addition to covering current events, *Gidra* also featured works of art and literature.
- C. *Gidra* was initially based out of the Asian American Studies Center at UCLA.
- D. People would often give their copies of *Gidra* to others once they had finished reading an issue.

ID: af45dc3f

Many animals, including humans, must sleep, and sleep is known to have a role in everything from healing injuries to encoding information in long-term memory. But some scientists claim that, from an evolutionary standpoint, deep sleep for hours at a time leaves an animal so vulnerable that the known benefits of sleeping seem insufficient to explain why it became so widespread in the animal kingdom. These scientists therefore imply that _____

Which choice most logically completes the text?

- A. prolonged deep sleep is likely advantageous in ways that have yet to be discovered.
- B. most traits perform functions that are hard to understand from an evolutionary standpoint.
- C. it is more important to understand how widespread prolonged deep sleep is than to understand its function.
- D. many traits that provide significant benefits for an animal also likely pose risks to that animal.

ID: b74860b2

A member of the Otomi, an Indigenous people in Central Mexico, Octavio Medellín immigrated to the United States as a child, and his sculpture bears the impress of traditions on both sides of the border: US-based modernist sculpture, Mexican modernist painting, Otomi art, and the ancient sculpture of other Mexican Indigenous peoples, including the Maya. In his 1950 masterpiece *History of Mexico*, Medellín fuses these influences into a style so idiosyncratic that it resists efforts to view his work through the lens of nationality or cultural identity. Artists, he insisted, should strive for individual expression, even as they draw inspiration from their heritage and the communities where they live and work.

Which quotation from an art critic most directly challenges the underlined claim in the text?

- A. "Although a number of ancient Indigenous artistic traditions pictured human forms in profile, the forms populating the surface of *A History of Mexico* suggest a specifically Maya influence."
- B. "In *A History of Mexico*, the synthesis of ancient and modernist traditions functions as a stylistic parallel to the work's subject matter: a survey of centuries of Mexican history."
- C. "Many critics focus on Indigenous influences in *A History of Mexico* and other key works by Medellín to the exclusion of influences from non-Indigenous art."
- D. "While *A History of Mexico* features modernist motifs, it relies primarily on angular human forms in profile—a staple of Maya sculpture—and thus invites classification as Indigenous art."

Guilds in French Cities in the Late Eighteenth Century

City	Date	Inhabitants	Number of guilds	Inhabitants per guild
Paris	1766	600,000	133	4,511
Bordeaux	1762	80,000	49	1,633
Rouen	1775	74,000	112	661
Lyon	1789	143,000	72	1,986

Guilds—local associations of artisans and merchants in the same industry—were widespread in France from the medieval period until the late eighteenth century. But guilds were much more numerous relative to the population in some cities than in others: for example, _____

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

- A. there were 49 guilds in Bordeaux but 72 guilds in Lyon despite the two cities having nearly equal numbers of inhabitants.
- B. Lyon had far fewer inhabitants than Paris did but had many more guilds.
- C. there was one guild for every 661 inhabitants in Rouen but one guild for every 4,511 inhabitants in Paris.
- D. Paris had 133 guilds and 600,000 inhabitants, or one guild for every 4,511 inhabitants.

ID: c0ee4b2d

The ice melted on a Norwegian mountain during a particularly warm summer in 2019, revealing a 1,700-year-old sandal to a mountaineer looking for artifacts. The sandal would normally have degraded quickly, but it was instead well preserved for centuries by the surrounding ice. According to archaeologist Espen Finstad and his team, the sandal, like those worn by imperial Romans, wouldn't have offered any protection from the cold in the mountains, so some kind of insulation, like fabric or animal skin, would have needed to be worn on the feet with the sandal.

What does the text indicate about the discovery of the sandal?

- A. Temperatures contributed to both protecting and revealing the sandal.
- B. The discovery revealed that the Roman Empire had more influence on Norway than archaeologists previously assumed.
- C. Archaeologists would have found the sandal eventually without help from the general public.
- D. The sandal would have degraded if it hadn't been removed from the ice.

ID: da287262

The Land of Enchantment is a 1906 travel book by Lilian Whiting. In the book, which describes the experience of traveling through the southwestern United States by train, Whiting reflects on the escape from everyday life that such a journey provides: _____

Which quotation from *The Land of Enchantment* most effectively illustrates the claim?

- A. "The opportunities and advantages already offered and constantly increasing are greater than would at first be considered possible."
- B. "The social and the picturesque charm of the long journey is singularly enhanced by the leisurely stops made for refreshment."
- C. "The real journey begins, of course, at Chicago, and as these trains leave in the evening the traveller fares forth in the seclusion of his berth."
- D. "One experiences a certain sense of detachment from ordinary day and daylight duties that is exhilarating."

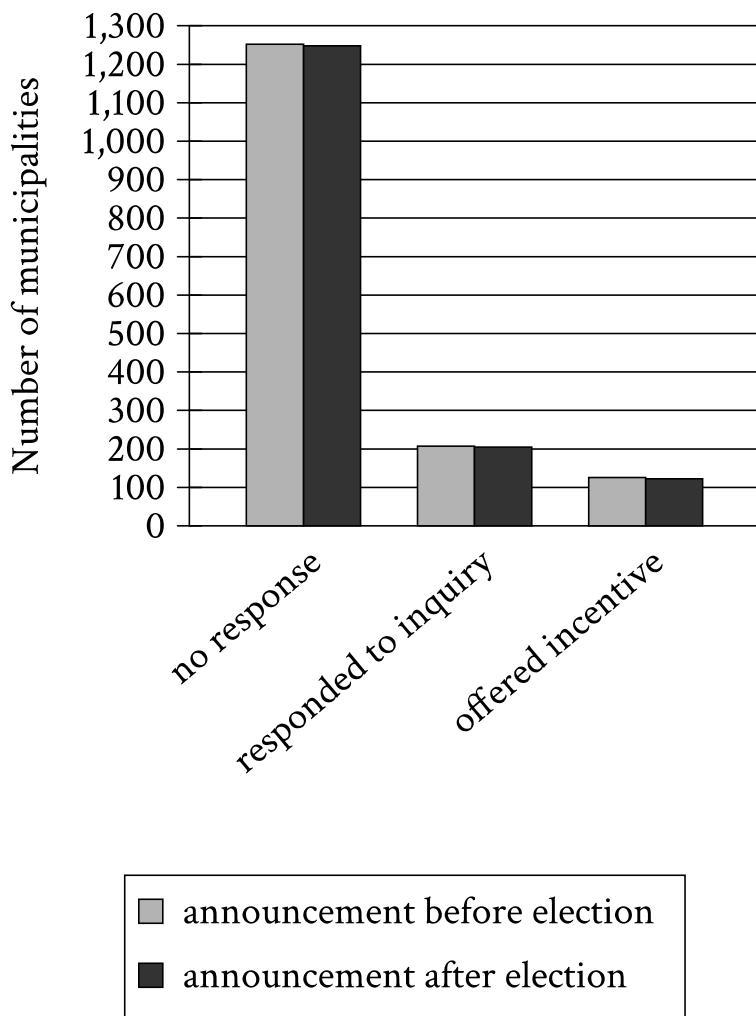
ID: a2641e5f

Although many transposons, DNA sequences that move within an organism's genome through shuffling or duplication, have become corrupted and inactive over time, those from the long interspersed nuclear elements (LINE) family appear to remain active in the genomes of some species. In humans, they are functionally important within the hippocampus, a brain structure that supports complex cognitive processes. When the results of molecular analysis of two species of octopus—an animal known for its intelligence—were announced in 2022, the confirmation of a LINE transposon in *Octopus vulgaris* and *Octopus bimaculoides* genomes prompted researchers to hypothesize that that transposon family is tied to a species' capacity for advanced cognition.

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

- A. The LINE transposon in *O. vulgaris* and *O. bimaculoides* genomes is active in an octopus brain structure that functions similarly to the human hippocampus.
- B. The human genome contains multiple transposons from the LINE family that are all primarily active in the hippocampus.
- C. A consistent number of copies of LINE transposons is present across the genomes of most octopus species, with few known corruptions.
- D. *O. vulgaris* and *O. bimaculoides* have smaller brains than humans do relative to body size, but their genomes contain sequences from a wider variety of transposon families.

Municipalities' Responses to Inquiries about Potential Incentives for Firm



In the United States, firms often seek incentives from municipal governments to expand to those municipalities. A team of political scientists hypothesized that municipalities are much more likely to respond to firms and offer incentives if expansions can be announced in time to benefit local elected officials than if they can't. The team contacted officials in thousands of municipalities, inquiring about incentives for a firm looking to expand and indicating that the firm would announce its expansion on a date either just before or just after the next election.

Which choice best describes data from the graph that weaken the team's hypothesis?

- A. A large majority of the municipalities that received an inquiry mentioning plans for an announcement before the next election didn't respond to the inquiry.
- B. The proportion of municipalities that responded to the inquiry or offered incentives didn't substantially differ across the announcement timing conditions.
- C. Only around half the municipalities that responded to inquiries mentioning plans for an announcement before the next election offered incentives.
- D. Of the municipalities that received an inquiry mentioning plans for an announcement date after the next

election, more than 1,200 didn't respond and only around 100 offered incentives.

Daily Distance Traveled by Adult Mountain Lions in Three Seasons

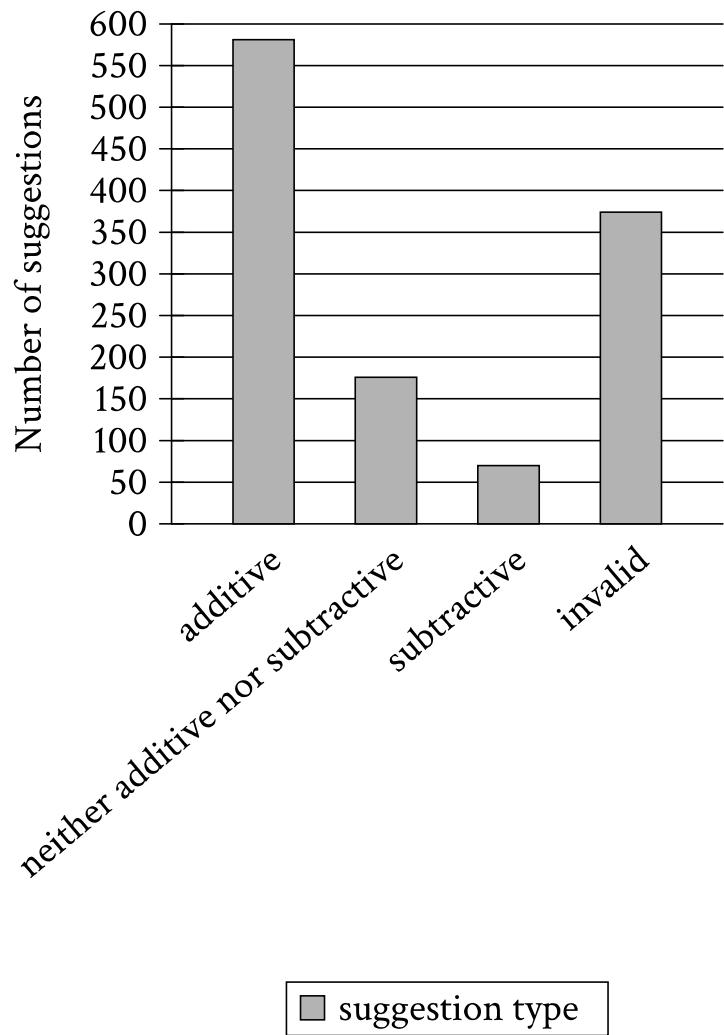
Season	Kilometers per day traveled by adult females	Kilometers per day traveled by adult males
cold-dry	9.28	15.81
monsoon	12.64	18.93
hot-dry	12.48	18.87

Wildlife researcher Dana L. Karelus and her colleagues tracked the movements of female and male adult mountain lions over three seasons: the cold-dry season, the hot-dry season, and the monsoon season. They found that the least amount of travel per day occurred in _____.

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

- A. the cold-dry season for both females and males.
- B. the cold-dry season for females and the hot-dry season for males.
- C. the hot-dry season for females and the monsoon season for males.
- D. the monsoon season for both females and males.

Suggestions for Improving a University



Gabrielle Adams and colleagues reviewed suggestions for improving a university that had been submitted to the university's president. They coded each suggestion as additive (the idea suggested adding something new to the university), subtractive (the idea suggested removing something from the university), neither additive nor subtractive, or invalid (the idea was not comprehensible). The data illustrated people's tendency to overlook the possibility of removing things to achieve improvements: _____

Which choice most effectively uses data in the graph to complete the statement?

- A. around 175 suggestions were coded as neither additive nor subtractive, whereas around 575 suggestions were coded as additive.
- B. more than 350 suggestions were coded as invalid, whereas fewer than 100 suggestions were coded as subtractive.
- C. fewer than 100 suggestions were coded as subtractive, whereas more than 550 suggestions were coded as additive.
- D. around 575 suggestions were coded as additive, whereas around 175 suggestions were coded as subtractive.

ID: f4fbf306

Researchers Suchithra Rajendran and Maximilian Popfinger modeled varying levels of passenger redistribution from short-haul flights (flights of 50 to 210 minutes, from takeoff to landing) to high-speed rail trips. Planes travel faster than trains, but air travel typically requires 3 hours of lead time for security, baggage handling, and boarding that rail travel doesn't, so short-haul routes take similar amounts of time by air and by rail. However, the model suggests that as rail passenger volumes approach current capacity limits, long lead times emerge. Therefore, for rail to remain a viable alternative to short-haul flights, _____

Which choice most logically completes the text?

- A. rail systems should offer fewer long-haul routes and airlines should offer more long-haul routes.
- B. rail systems may need to schedule additional trains for these routes.
- C. security, baggage handling, and boarding procedures used by airlines may need to be implemented for rail systems.
- D. passengers who travel by rail for these routes will need to accept that lead times will be similar to those for air travel.

ID: f37f0c11

In a paper about p-i-n planar perovskite solar cells (one of several perovskite cell architectures designed to collect and store solar power), Lyndsey McMillon-Brown et al. describe a method for fabricating the cell's electronic transport layer (ETL) using a spray coating. Conventional ETL fabrication is accomplished using a solution of nanoparticles. The process can result in a loss of up to 80% of the solution, increasing the cost of manufacturing at scale—an issue that may be obviated by spray coating fabrication, which the researchers describe as "highly reproducible, concise, and practical."

What does the text most strongly suggest about conventional ETL fabrication?

- A. It is less suitable for manufacturing large volumes of planar p-i-n perovskite solar cells than an alternative fabrication method may be.
- B. It is more expensive when manufacturing at scale than are processes for fabricating ETLs used in other perovskite solar cell architectures.
- C. It typically entails a greater loss of nanoparticle solution than do other established approaches for ETL fabrication.
- D. It is somewhat imprecise and therefore limits the potential effectiveness of p-i-n planar perovskite solar cells at capturing and storing solar power.

ID: 8a193615

Jan Gimsa, Robert Sleigh, and Ulrike Gimsa have hypothesized that the sail-like structure running down the back of the dinosaur *Spinosaurus aegyptiacus* improved the animal's success in underwater pursuits of prey species capable of making quick, evasive movements. To evaluate their hypothesis, a second team of researchers constructed two battery-powered mechanical models of *S. aegyptiacus*, one with a sail and one without, and subjected the models to a series of identical tests in a water-filled tank.

Which finding from the model tests, if true, would most strongly support Gimsa and colleagues' hypothesis?

- A. The model with a sail took significantly less time to complete a sharp turn while submerged than the model without a sail did.
- B. The model with a sail displaced significantly more water while submerged than the model without a sail did.
- C. The model with a sail had significantly less battery power remaining after completing the tests than the model without a sail did.
- D. The model with a sail took significantly longer to travel a specified distance while submerged than the model without a sail did.

ID: 40aa7b00

Astronomers investigated the Arabia Terra region of Mars because it appears to contain irregularly shaped craters that may have been caused by massive volcanic explosions. In their investigations of Arabia Terra, the researchers found remnants of ash deposits in an amount and thickness that would result from a massive volcanic eruption. However, erosion and past resurfacing events could have modified the surface of the planet. Therefore, _____

Which choice most logically completes the text?

- A. the current makeup of the Arabia Terra region might not accurately reflect the volcanic activity of Mars's past.
- B. eruptions from Mars's volcanoes were likely not as massive as astronomers previously believed.
- C. ash was most likely expelled from multiple different volcanoes on Mars's surface.
- D. the craters found in the Arabia Terra region were necessarily created by events other than volcanic eruptions.

ID: e7b2ca56

Optical tweezers are specialized scientific tools—particularly useful in biology and medicine—that use high-powered beams of light to trap and manipulate minuscule particles for study. Use of the tool has led to several scientific and medical breakthroughs over the last few decades, but the particles are often under prolonged exposure to the intense heat of the light beams. To overcome the risk of overheating, and thereby damage, researchers sometimes attach nano-sized glass beads to particles, allowing the light to focus on the beads instead of the particles.

Based on the text, what is one advantage of attaching glass beads to particles when using optical tweezers?

- A. It decreases the time it takes for the optical tweezers to locate and capture the particles.
- B. It facilitates the maneuvering of particles without directly heating the particles themselves.
- C. It allows researchers to use weaker light beams to manipulate particles.
- D. It adds a material to which particles can transfer any heat absorbed from the optical tweezers' light beam.

ID: 0ee7dfb6

Laura Mulvey has theorized that in narrative film, shots issuing from a protagonist's point of view compel viewers to identify with the character. Such identification is heightened by "invisible editing," or editing so inconspicuous that it renders cuts between shots almost unnoticeable. Conversely, Mulvey proposes that conspicuous editing or an absence of point-of-view shots would induce a more critical stance toward a protagonist. Consider, for example, the attic scene in Alfred Hitchcock's *The Birds*, a conspicuously edited sequence of tens of shots, few of which correspond to the protagonist's point of view. According to Mulvey's logic, this scene should affect viewers by _____

Which choice most logically completes the text?

- A. obscuring their awareness of the high degree of artifice involved in constructing the montage.
- B. lessening their identification with the protagonist, if not alienating them from the character altogether.
- C. compelling them to identify with the film's director, whose proxy is the camera, and not with the protagonist.
- D. diverting their attention away from the film's content and toward its stylistic attributes.

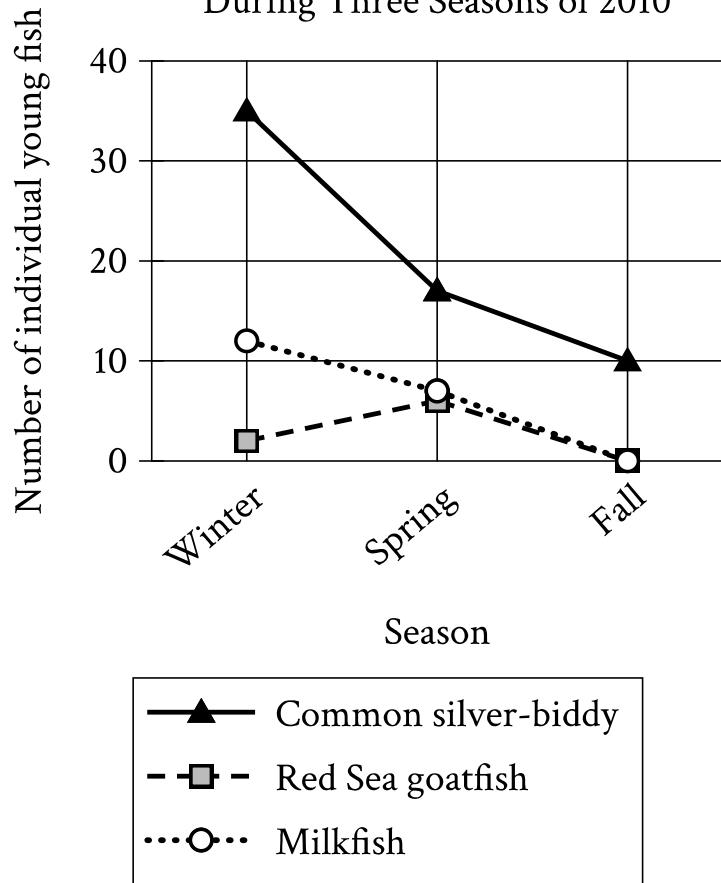
The following text is adapted from Christina Rossetti's 1881 poem "Monna Innominata 2."

I wish I could remember that first day,
First hour, first moment of your meeting me,
If bright or dim the season, it might be
Summer or Winter for [all] I can say;
So unrecorded did it slip away,
So blind was I to see and to foresee,
So dull to mark the budding of my tree
That would not blossom yet for many a May.

Which choice best states the main idea of the text?

- A. The speaker celebrates how the passage of time has strengthened a relationship that once seemed unimportant.
- B. Because the speaker did not anticipate how important a relationship would become, she cannot recall how the relationship began, which she regrets.
- C. As the anniversary of the beginning of an important relationship approaches, the speaker feels conflicted about how best to commemorate it.
- D. After years of neglecting a once valuable relationship, the speaker worries it may be too late for her to salvage the relationship.

Number of Young Fish Collected at
Mangrove Sites in the Egyptian Red Sea
During Three Seasons of 2010



Mangroves are trees or bushes that grow on the coastlines of seas and rivers. Areas with mangroves are great places for young fish since they help keep these fish fed and protected while they grow. To study the importance of mangroves to young fish, researchers Mohamed A. Abu El-Regal and Nesreen K. Ibrahim collected and identified young fish from three different mangrove sites in the Egyptian Red Sea. They collected fish in the winter, spring, and autumn of 2010, collecting a total of 269 fish from 21 different species. For some species, more fish were collected in the winter than in the other two seasons, for instance:

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

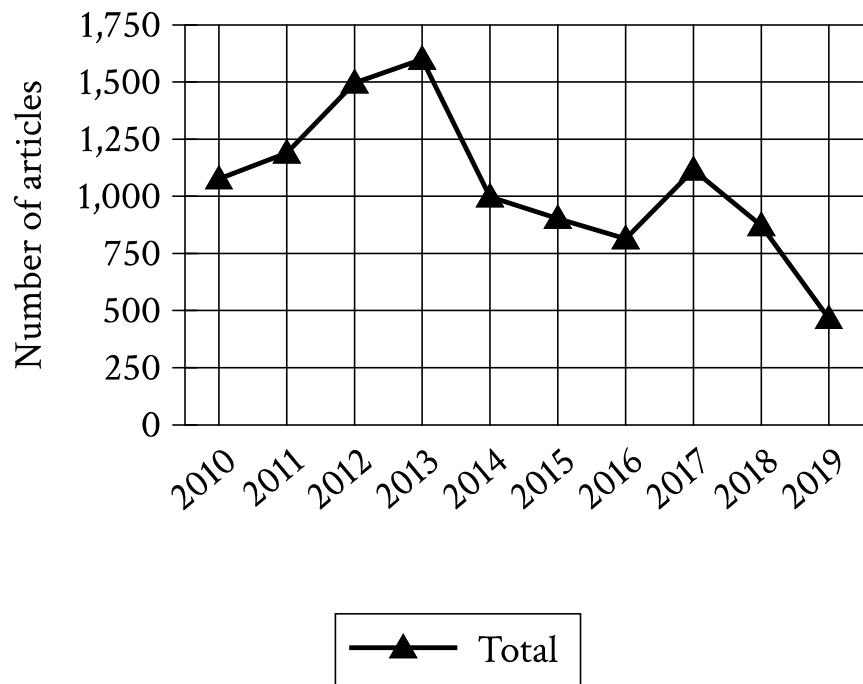
- more common silver-biddy and milkfish were collected in the winter than in either of the other two seasons.
- the common silver-biddy was collected more frequently than the other two species in all three seasons.
- in the spring, researchers collected more Red Sea goldfish than they collected from the other two species.
- in the fall, researchers collected 10 common silver-biddy but collected no milkfish or Red Sea goatfish.

Tides can deposit large quantities of dead vegetation within a salt marsh, smothering healthy plants and leaving a salt panne—a depression devoid of plants that tends to trap standing water—in the marsh's interior. Ecologist Kathryn Beheshti and colleagues found that burrowing crabs living within these pannes improve drainage by loosening the soil, leading the pannes to shrink as marsh plants move back in. At salt marsh edges, however, crab-induced soil loosening can promote marsh loss by accelerating erosion, suggesting that the burrowing action of crabs _____

Which choice most logically completes the text?

- A. can be beneficial to marshes with small pannes but can be harmful to marshes with large pannes.
- B. may promote increases in marsh plants or decreases in marsh plants, depending on the crabs' location.
- C. tends to be more heavily concentrated in areas of marsh interiors with standing water than at marsh edges.
- D. varies in intensity depending on the size of the panne relative to the size of the surrounding marsh.

Investigative Articles
Published in the Albuquerque Journal
from 2010 to 2019



Investigative journalists research and report about fraud, corruption, public hazards, and more. The graph shows the number of investigative articles published in the *Albuquerque Journal* newspaper from 2010 to 2019. According to an analyst, although the number of investigative articles published in this newspaper has varied significantly over the period shown, the number overall has fallen since 2010.

Which choice most effectively uses data from the graph to justify the underlined claim?

- A. The newspaper published approximately 1,000 investigative articles in 2010 and approximately 500 in 2019.
- B. The smallest annual number of investigative articles published in the newspaper during the period shown is approximately 1,600 in 2013.
- C. The greatest annual number of investigative articles published in the newspaper during the period shown is approximately 1,000 in 2017.
- D. The newspaper published approximately 1,000 investigative articles in 2010 and approximately 1,600 in 2013.

ID: 15928122

In their book *Smart Pricing*, Jagmohan Raju and Z. John Zhang consider musicians' use of the nontraditional "pay as you wish" pricing model. This model generally offers listeners the choice to pay more or less than a suggested price for a song or album—or even to pay nothing at all. As the authors note, that's the option most listeners chose for an album by the band Harvey Danger. Only about 1% opted to pay for the album, resulting in earnings below the band's expectations. But the authors also discuss musician Jane Siberry, who saw significant earnings from her "pay as you wish" online music store as a result of many listeners choosing to pay more than the store's suggested prices. Hence, the "pay as you wish" model may _____

Which choice most logically completes the text?

- A. prove financially successful for some musicians but disappointing for others.
- B. hold greater financial appeal for bands than for individual musicians.
- C. cause most musicians who use the model to lower the suggested prices of their songs and albums over time.
- D. more strongly reflect differences in certain musicians' popularity than traditional pricing models do.

Pulitzer Prize-winning writer Héctor Tobar has built a multifaceted career as both a journalist and an author of short stories and novels. In an essay about Tobar's work, a student claims that Tobar blends his areas of expertise by applying journalism techniques to his creation of works of fiction.

Which quotation from a literary critic best supports the student's claim?

- A. "For one novel, an imagined account of a real person's global travels, Tobar approached his subject like a reporter, interviewing people the man had met along the way and researching the man's own writings."
- B. "Tobar got his start as a volunteer for *El Tecolote*, a community newspaper in San Francisco, and wrote for newspapers for years before earning a degree in creative writing and starting to publish works of fiction."
- C. "Many of Tobar's notable nonfiction articles are marked by the writer's use of techniques usually associated with fiction, such as complex narrative structures and the incorporation of symbolism."
- D. "The protagonist of Tobar's third novel is a man who wants to be a novelist and keeps notes about interesting people he encounters so he can use them when developing characters for his stories."

ID: c6b3a54e

To protect themselves when being attacked, hagfish—jawless marine animals that resemble eels—will release large quantities of slimy, mucus-like threads. Because these threads are unusually strong and elastic, scientist Atsuko Negishi and her colleagues have been trying to recreate them in a lab as an eco-friendly alternative to petroleum-based fibers that are often used in fabrics. The researchers want to reproduce the threads in the lab because farming hagfish for their slime would be expensive and potentially harmful to the hagfish.

Which choice best states the text's main idea?

- A. The slimy threads that hagfish release might help researchers create a new kind of fabric.
- B. Hagfish have inspired researchers to develop a new petroleum-based fabric.
- C. Hagfish are not well suited to being raised in captivity.
- D. The ability of hagfish to slime their attackers compensates for their being jawless.

ID: 50aeedba

American fashion designer Patrick Kelly was known for his love of colorful buttons. Many of his signature dresses feature bold assortments of buttons throughout the garment. In a paper, a fashion design student claims that Kelly's use of buttons as decoration was inspired by his childhood observations of the styles and actions of the women in his family.

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 some of the assortments of buttons appear to be mismatched pieces scattered randomly throughout Kelly's dresses, his most famous designs feature carefully crafted patterns of matching buttons."
- B. "Many of Kelly's contemporaries were inspired by his designs to incorporate buttons, as well as zippers and snaps, as decorative items in their work."
- C. "Kelly's grandmother, who would repair clothing when he was a child, frequently added mismatched buttons to the clothes to draw attention away from any flaws in the garments."
- D. "Kelly was destined to be a designer from a young age: he learned how to sew clothing from his aunt Bertha, and his love of drawing was developed by his mother."

Average Nitrate and Phosphate Concentrations in Seawater after Volcanic Eruption

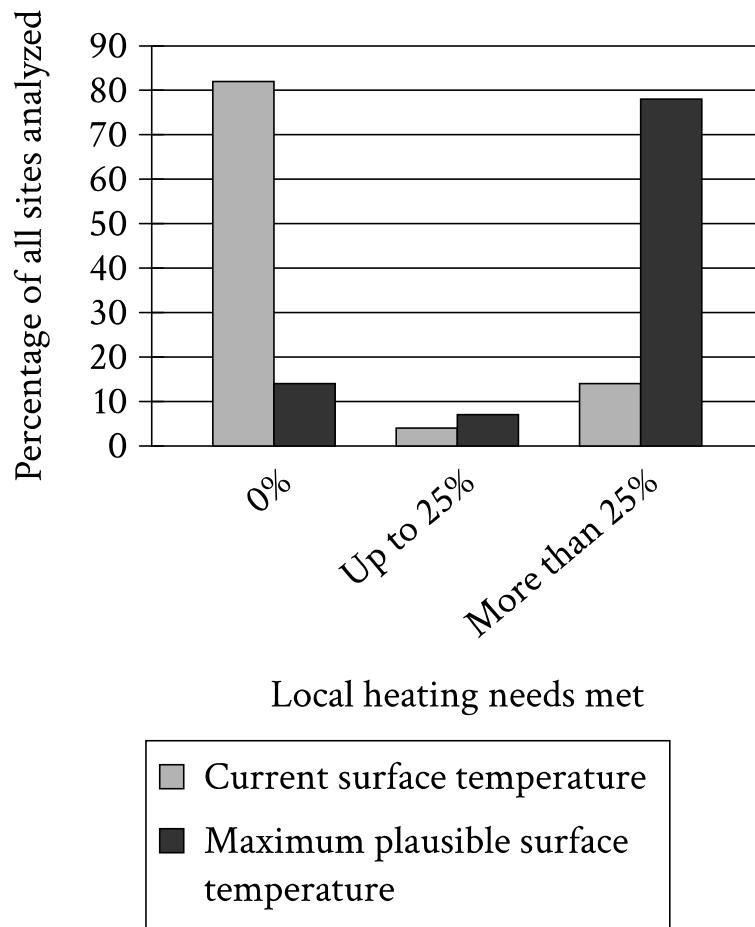
Nutrient	Seawater in lava-affected area, 5–45 meters below surface	Seawater in lava-affected area, 75–125 meters below surface	Seawater outside of lava-affected area, 5–45 meters below surface	Seawater outside of lava-affected area, 75–125 meters below surface
Nitrate (micromoles per liter)	3.1	0.4	≤0.03	≤0.01
Phosphate (micromoles per liter)	0.17	0.09	0.14	0.06

After a volcanic eruption spilled lava into North Pacific Ocean waters, a dramatic increase of diatoms (a kind of phytoplankton) near the surface occurred. Scientists assumed the diatoms were thriving on nutrients such as phosphate from the lava, but analysis showed these nutrients weren't present near the surface in forms diatoms can consume. However, there was an abundance of usable nitrate, a nutrient usually found in much deeper water and almost never found in lava. Microbial oceanographer Sonya Dyhrman and colleagues believe that as the lava plunged nearly 300 meters below the surface it dislodged pockets of this nutrient, releasing it to float upward, given that _____.

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

- A. at 5–45 meters below the surface, the average concentration of phosphate was about the same in the seawater in the lava-affected area as in the seawater outside of the lava-affected area.
- B. for both depth ranges measured, the average concentrations of nitrate were substantially higher in the seawater in the lava-affected area than in the seawater outside of the lava-affected area.
- C. for both depth ranges measured in the seawater in the lava-affected area, the average concentrations of nitrate were substantially higher than the average concentrations of phosphate.
- D. in the seawater outside of the lava-affected area, there was little change in the average concentration of nitrate from 75–125 meters below the surface to 5–45 meters below the surface.

Home Heating Needs Met with Subsurface Thermal Pollution for Two Temperature Conditions, by Percentage of Sites



Urbanization, industrialization, and the warming climate create thermal pollution (excess heat) in the shallow subsurface soil. Susanne A. Benz and colleagues analyzed thousands of sites on three continents under one scenario in which surface temperature remains at the current level and under another in which the surface reaches the maximum plausible temperature. They then categorized each site according to the percentage of local home heating needs that could be met using this excess subsurface heat. The team concluded that if surface temperature approaches the maximum plausible level, the percentage of sites where thermal pollution could feasibly contribute to meeting home heating needs will increase.

Which choice best describes data in the graph that support Benz and colleagues' conclusion?

- A. Under both temperature conditions, less than 10% of sites were in the up-to-25% group, but at the maximum plausible surface temperature, almost 80% of sites could have all their local heating needs met by thermal pollution.
- B. At current surface temperatures, more than 80% of the sites have no need for supplemental local home heating from subsurface thermal pollution, but at the maximum plausible surface temperature, more than 70% of sites exhibit significantly greater home heating needs.
- C. At current surface temperatures, more than 80% of sites can meet, at most, 25% of local home heating

needs with subsurface thermal pollution, but at the maximum plausible surface temperature, more than 80% of sites can meet greater than 25% of local home heating needs.

D. At current surface temperatures, more than 80% of the sites cannot use subsurface thermal pollution to meet any portion of local home heating needs, but at the maximum plausible surface temperature, that percentage drops below 20%.

Effect of Paywall Introduction on Newspaper Companies' Revenues

Newspaper	Total revenue change (\$ in thousands)	Percentage change (%)	Newspaper size
<i>Los Angeles Times</i>	93,966	12.5	large
<i>The New York Times</i>	235,788	20	large
<i>The Denver Post</i>	-3,765	-1	small
<i>Sun Sentinel</i>	-24,899	-11.9	small
<i>Chicago Tribune</i>	94,492	19	large

Digital paywalls restrict access to online content to those with a paid subscription. In an investigation of the effect of paywalls on newspaper company revenues for print and digital subscriptions and advertising, Doug J. Chung and colleagues compared actual outcomes (with a paywall) to control estimates (without a paywall). The researchers concluded that introducing a paywall is generally more beneficial for larger newspapers, which have high circulation and tend to offer a substantial amount of unique online content.

Which choice best describes data from the table that support Chung and colleagues' conclusion?

- A. The *Chicago Tribune* and the *Los Angeles Times* had similar total revenue changes, but the *Los Angeles Times* had a smaller percentage change.
- B. The *Los Angeles Times* had a 12.5% revenue change, while the *Chicago Tribune* had a 19% revenue change.
- C. The *New York Times* had a 20% revenue change, while the *Denver Post* had a -1% revenue change.
- D. The *Denver Post* had only a -1% revenue change, which was the smallest percentage change of the selected companies.

ID: af80d661

Although it's clear that Mars once had liquid water on its surface, astronomers have debated whether the evidence of ancient water reflects a prolonged phase of warm, wet conditions—the so-called wet and warm scenario—or a brief period of melting in an otherwise consistently frozen environment. Researchers Benjamin T. Cardenas and Michael P. Lamb recently added to this debate by using data from NASA and the Mars Orbiter Laser Altimeter to map the topography of what is now a large basin in Mars's northern hemisphere. Cardenas and Lamb concluded that the wet and warm scenario is likely correct.

Which finding about the basin, if true, would most directly support Cardenas and Lamb's conclusion?

- A. Its dimensions and shape indicate that it is unlikely to have formed as the result of an asteroid or comet impact.
- B. It has features suggesting that it once held an ocean that underwent gradual sea-level changes over an extended time.
- C. Its physical characteristics are most consistent with it having formed as a result of a massive but short-lived influx of liquid water.
- D. It is surrounded by channels that could have been formed either by running water or by flowing lava.

The following text is adapted from María Cristina Mena's 1914 short story "The Vine-Leaf."

It is a saying in the capital of Mexico that Dr. Malsufrido carries more family secrets under his hat than any archbishop.

The doctor's hat is, appropriately enough, uncommonly capacious, rising very high, and sinking so low that it seems to be supported by his ears and eyebrows, and it has a furry look, as if it had been brushed the wrong way, which is perhaps what happens to it if it is ever brushed at all. When the doctor takes it off, the family secrets do not fly out like a flock of parrots, but remain nicely bottled up beneath a dome of old and highly polished ivory.

Based on the text, how do people in the capital of Mexico most likely regard Dr. Malsufrido?

- A. Many have come to tolerate him despite his disheveled appearance.
- B. Few feel concerned that he will divulge their confidences.
- C. Some dislike how freely he discusses his own family.
- D. Most would be unimpressed by him were it not for his professional expertise.

ID: e67a5268

Having written the impassioned call to arms “Letter to the Spanish Americans” in 1791, Peruvian intellectual Juan Pablo Viscardo y Guzmán is often considered a forerunner for the independence movements in Latin America. But Viscardo’s role in history would have remained insignificant were it not for Venezuelan revolutionary Francisco de Miranda, who was handed the unpublished letter after Viscardo’s death. Miranda not only helped circulate the letter, but his edits and footnotes to the text position Miranda as a central figure in the text’s creation.

Which choice best states the main idea of the text?

- A. The original authorship of “Letter to the Spanish Americans” is disputed by contemporary historians.
- B. The majority of the most eloquently stated arguments in “Letter to the Spanish Americans” were written by Miranda.
- C. Miranda played a crucial role in influencing the content and distribution of “Letter to the Spanish Americans.”
- D. “Letter to the Spanish Americans” persuaded many people in Latin America to pursue national independence.

ID: 5db9e88a

German theater practitioner Bertolt Brecht (1898–1956) believed that theater should elicit an intellectual rather than an emotional response from audiences, provoking them to consider social and political realities that extend beyond the characters and events depicted onstage. Brecht's influence can be seen in English playwright Caryl Churchill's 1979 play *Cloud 9*: although the play sometimes invites empathetic reactions, it primarily works to engage audiences in an interrogation of patriarchy and colonialism, which it does by placing audiences at a distance, thereby encouraging them to _____

Which choice most logically completes the text?

- A. focus on the characters' beliefs about social and political issues as revealed by the characters' actions.
- B. reflect on social and political phenomena not directly related to patriarchy and colonialism.
- C. recognize pertinent social and political parallels between Germany during Brecht's time and England at the time when Churchill was writing *Cloud 9*.
- D. be dispassionate as they think critically about the social and political questions raised by the play.

In 1534 CE, King Henry VIII of England split with the Catholic Church and declared himself head of the Church of England, in part because Pope Clement VII refused to annul his marriage to Catherine of Aragon. Two years later, Henry VIII introduced a policy titled the Dissolution of the Monasteries that by 1540 had resulted in the closure of all Catholic monasteries in England and the confiscation of their estates. Some historians assert that the enactment of the policy was primarily motivated by perceived financial opportunities.

Which quotation from a scholarly article best supports the assertion of the historians mentioned in the text?

- A. "At the time of the Dissolution of the Monasteries, about 2 percent of the adult male population of England were monks; by 1690, the proportion of the adult male population who were monks was less than 1 percent."
- B. "A contemporary description of the Dissolution of the Monasteries, Michael Sherbrook's *Falle of the Religious Howses*, recounts witness testimony that monks were allowed to keep the contents of their cells and that the monastery timber was purchased by local yeomen."
- C. "In 1535, the year before enacting the Dissolution of the Monasteries, Henry commissioned a survey of the value of church holdings in England—the work, performed by sheriffs, bishops, and magistrates, began that January and was swiftly completed by the summer."
- D. "The October 1536 revolt known as the Pilgrimage of Grace had several economic motives: high food prices due to a poor harvest the prior year; the Dissolution of the Monasteries, which closed reliable sources of food and shelter for many; and rents and taxes throughout Northern England that were not merely high but predatory."

ID: 0251d17e

In the 1970s, a roughly 60,000-year-old piece of hyena bone marked with nine notches was discovered at a site in western France once inhabited by Neanderthals. Although many believe that only modern humans developed systems for notating numbers, one archaeologist asserts that this artifact may be a sign that Neanderthals also recorded numerical information. The notches on the bone are unevenly spaced but approximately parallel, and microscopic analysis reveals that they were made with a single stone tool; according to the archaeologist, this suggests that the notches were all made at one time by one individual as a means of counting something.

Which finding, if true, would most directly weaken the underlined claim?

- A. Parallel lines are a common feature in modern humans' early systems for recording numerical information.
- B. More than nine approximately parallel notches made with a different stone tool are present on another artifact found at a site in western France.
- C. It would have taken careful effort to make evenly spaced lines on bone with the stone tools typically used by Neanderthals.
- D. Decorative art discovered at another Neanderthal site in western France primarily features patterns of unevenly spaced parallel lines.

ID: e49ca22d

A researcher conducted an experiment inspired by studies suggesting that people may benefit from feeling frightened in certain circumstances, such as when watching scary movies or visiting haunted attractions. The researcher recruited several participants and had them walk through a local haunted house attraction. Immediately after exiting the attraction, each participant completed a survey about their experience. Based on the survey responses, the researcher claims that feeling frightened in controlled situations can boost a person's mood and confidence.

Which quotation from a participant would best illustrate the researcher's claim?

- A. "After I came out of the haunted house, I felt very accomplished and less stressed."
- B. "My friends kept laughing as we were walking through the haunted house."
- C. "The haunted house was scary at first, but I knew everyone was just acting, so I felt less scared after a few minutes."
- D. "The sense of relief I felt at the end of the haunted house was similar to the feelings I have when I finish a scary movie."

ID: 35d6bc93

Scrapbooks of saved fabric pieces were commonly kept by women in the nineteenth-century United States, but few are as meticulously detailed as Hannah Ditzler Alspaugh's work. Alongside each piece of fabric, Alspaugh recorded intimate memories, such as dressmaking with her sister. Additionally, she listed the prices and how she used the fabric. Historians note that by representing fifty years of changing textures, patterns, and dress styles, the scrapbook is a record of nineteenth-century textiles and dressmaking as well as Alspaugh's life.

Which choice best states the main idea of the text?

- A. Alspaugh inspired other women to save pieces of fabric in scrapbooks and provide historical records of nineteenth-century fashions in the United States.
- B. Historians rely on fabric scrapbooks to understand how fashions changed throughout the nineteenth-century United States.
- C. Fabric scrapbooks were a popular hobby for many women in the nineteenth-century United States.
- D. Alspaugh's scrapbook provides a detailed account of her life and historical record of fashion trends in the nineteenth-century United States.

ID: 5544272f

In a study of new technology adoption, Davit Marikyan et al. examined negative disconfirmation (which occurs when experiences fall short of one's expectations) to determine whether it could lead to positive outcomes for users. The team focused on established users of "smart home" technology, which presents inherent utilization challenges but tends to attract users with high expectations, often leading to feelings of dissonance. The researchers found that many users employed cognitive mechanisms to mitigate those feelings, ultimately reversing their initial sense of disappointment.

Which choice best states the main idea of the text?

- A. Research suggests that most users of smart home technology will not achieve a feeling of satisfaction given the utilization challenges of such technology.
- B. Although most smart home technology is aimed at meeting or exceeding users' high expectations, those expectations in general remain poorly understood.
- C. Research suggests that users with high expectations for a new technology can feel content with that technology even after experiencing negative disconfirmation.
- D. Although negative disconfirmation has often been studied, little is known about the cognitive mechanisms shaping users' reactions to it in the context of new technology adoption.

ID: b8dd8651

Several studies of sediment (e.g., dirt, pieces of rock, etc.) in streams have shown an inverse correlation between sediment grain size and downstream distance from the primary sediment source, suggesting that stream length has a sorting effect on sediment. In a study of sediment sampled at more than a dozen sites in Alpine streams, however, geologists Camille Litty and Fritz Schlunegger found that cross-site variations in grain size were not associated with differences in downstream distance, though they did not conclude that downstream distance is irrelevant to grain size. Rather, they concluded that sediment influx in these streams may have been sufficiently spatially diffuse to prevent the typical sorting effect from being observed.

Which finding about the streams in the study, if true, would most directly support Litty and Schlunegger's conclusion?

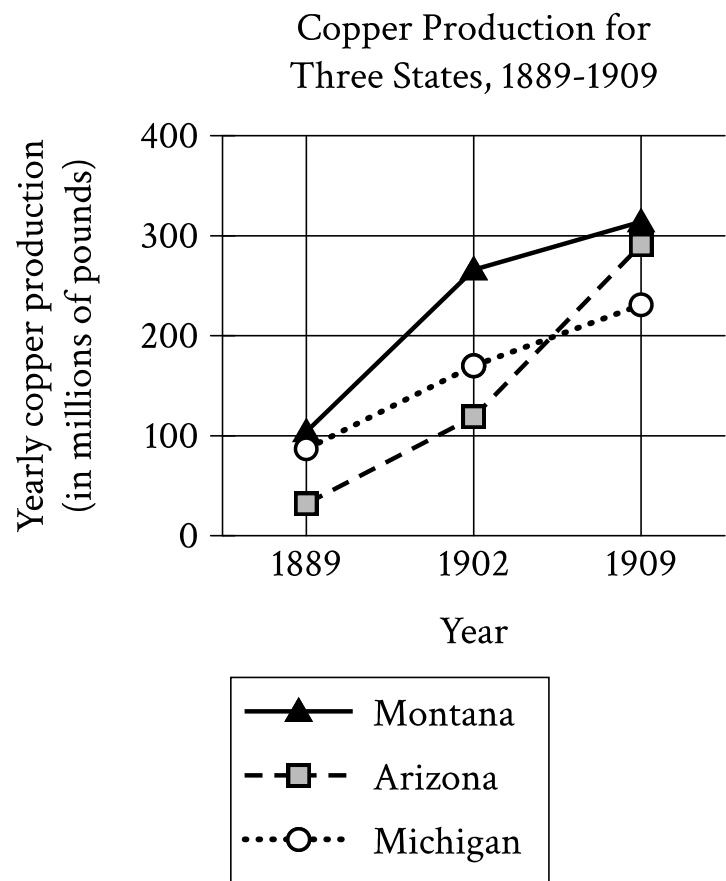
- A. The streams regularly experience portions of their banks collapsing into the water at multiple points upstream of the sampling sites.
- B. The streams contain several types of sediment that are not typically found in streams where the sorting effect has been demonstrated.
- C. The streams mostly originate from the same source, but their lengths vary considerably due to the different courses they take.
- D. The streams are fed by multiple tributaries that carry significant volumes of sediment and that enter the streams downstream of the sampling sites.

ID: b01c4c0e

Researchers wanted to study how consumers' reactions to an ad may be affected by other ads. The researchers began by showing study participants an ad for a product, with some seeing a less detailed ad and others seeing a more detailed one. Then, all participants viewed the same second ad for a store and shared their opinion of the store based on this second ad. Participants who had first seen an ad less detailed than the second ad had a higher opinion of the store than the participants who had first seen a more detailed ad. The researchers concluded that reactions to an ad may be affected by _____

Which choice most logically completes the text?

- A. the number of people who viewed the ad.
- B. the length of time viewing previous ads.
- C. the amount of detail viewed in previous ads.
- D. the time of day that the ad is viewed.



Copper had been mined in the US for thousands of years, but large-scale commercial mining of copper took off starting in the late 1800s. This was due to several factors. Technological advancements in the mining industry led to improvements in the production of copper. This helped the country keep up with the growing number of people wanting to buy copper starting in the 1890s. At the same time, the growth of the railroad system made the transportation of copper in large batches much easier. Several states saw rapid growth in the production of this resource, for example: _____

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

- A. The rise in copper production in Michigan slowed from 1902 to 1909.
- B. Montana and Arizona produced more copper than Michigan did in 1909.
- C. Fewer than 100 million pounds of copper were produced in Arizona in 1889.
- D. Copper production rose significantly from 1889 to 1909 for Arizona, Michigan, and Montana.

Percentage Point Changes in US Federal Outlays Relative to GDP by Congressional Status

Period	Congressional status	Change in total outlays	Change in nondefense outlays	Change in defense outlays
1981–1988	divided	-0.4	-1.3	0.9
1975–1976	divided	2.7	3.0	-0.3
1977–1980	undivided	0.3	0.6	-0.3
1964–1968	undivided	1.9	1.4	0.5
1969–1974	divided	-1.8	2.1	-3.9

Economist Steve H. Hanke has shown that divided US Congresses—which occur when one party holds the majority in the House of Representatives and another holds the majority in the Senate—tend to accompany reductions in total federal outlays (spending) relative to gross domestic product (GDP), which Hanke interprets to reflect decreases in government size. Hanke calculated the percentage point change in total outlays (encompassing nondefense and defense outlays) for consecutive US Congresses. Hanke has pointed to his calculations as evidence that a divided Congress may be a “necessary but not sufficient condition” for a decrease in government size to occur.

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

- A. The periods of undivided Congresses were associated with increases in nondefense outlays, whereas all the periods of divided Congresses except one were associated with reductions in defense outlays.
- B. All the periods of divided Congresses were associated with reductions in total outlays, although two periods were also associated with increases in nondefense outlays.
- C. The periods of undivided Congresses were associated with increases in total outlays, whereas all the periods of divided Congresses were associated with reductions in either nondefense outlays or defense outlays.
- D. All the periods of divided Congresses except one were associated with reductions in total outlays, whereas the periods of undivided Congresses were associated with increases in total outlays.

ID: 19f553cc

Paleontologists searching for signs of ancient life have found many fossilized specimens of prehistoric human ancestors, including several from the Pleistocene era discovered in a geological formation in the Minatogawa quarry in Japan. However, to study the emergence of the earliest multicellular organisms to appear on Earth, researchers must turn elsewhere, such as to the Ediacaran geological formation at Mistaken Point in Canada. A UNESCO World Heritage Site, the 146-hectare reserve contains more than 10,000 fossils that together document a critical moment in evolutionary history.

What does the text indicate about the geological formation at Mistaken Point?

- A. It holds a greater number of fossils but from a smaller variety of species than the formation in the Minatogawa quarry does.
- B. It has provided evidence that the earliest human species may have emerged before the Pleistocene era.
- C. It is widely considered by paleontologists to be the most valuable source of information about prehistoric life forms.
- D. It contains specimens from an older time period than those found in the formation in the Minatogawa quarry.

Time Participants Spent Reading about Five London Museums

Museum Name	Ranking	Percentage of total time spent reading about museum by participants provided with ranking	Percentage of total time spent reading about museum by participants not provided with ranking
British Museum	1	36	18
National Gallery	2	21	20
Tate Modern	4	16	17
Victoria and Albert Museum	5	14	23
Natural History Museum	3	13	22

Researchers recently conducted an experiment to understand how we use rankings to make decisions. They created a fictitious travel website describing five museums in London. Then, they invited two groups of participants, who had never visited the museums, to review the site and select the museum they would be most likely to visit. Meanwhile, the researchers tracked the amount of time each participant spent reading about each museum. For one group, the website ranked each museum, titling the page "The Top 5 Museums in London." For the other group, the museums and their descriptions were not ranked. The researchers concluded that when reviewing ranked lists, we tend to focus on the top-ranked option.

Which choice best describes data in the table that support the researchers' conclusion?

- A. Participants who were not provided with a ranking of the museums spent roughly equal amounts of time reading about each museum.
- B. Participants who were provided with a ranking of the museums spent disproportionately more time reading about the British museum.
- C. Participants who were provided with a ranking of the museums spent the least amount of time reading about the Natural History Museum.
- D. Participants who were not provided with a ranking of the museums spent the most time reading about the Victoria and Albert Museum.

Average Temperatures in July in Four Locations in the Navajo Nation

Location	Average highest temperature (Fahrenheit)	Average lowest temperature (Fahrenheit)
Teec Nos Pos	94°	65°
Cameron	99°	65°
Ramah	83°	50°
Tuba City	83°	50°

The Navajo Nation has the largest land area of any tribal nation in the United States: over 27,000 square miles in the Southwest. Because this area is so huge and its communities are located at various elevations, the people of the Navajo Nation can experience different climate conditions depending on where they live. For example, in July, _____.

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

- A. the lowest temperature for both Cameron and Teec Nos Pos was 65°.
- B. Tuba City's average highest temperature was 94°, while Teec Nos Pos's was 93°.
- C. Ramah's average highest temperature was 83°, while Cameron's was 99°.
- D. the lowest temperature for both Ramah and Tuba City was 50°.

ID: 5ad0b3b6

Nucleobase Concentrations from Murchison Meteorite and Soil Samples in Parts per Billion

Nucleobase	Murchison meteorite sample 1	Murchison meteorite sample 2	Murchison soil sample
Isoguanine	0.5	0.04	not detected
Purine	0.2	0.02	not detected
Xanthine	39	3	1
Adenine	15	1	40
Hypoxanthine	24	1	2

Employing high-performance liquid chromatography—a process that uses pressurized water to separate material into its component molecules—astrochemist Yashiro Oba and colleagues analyzed two samples of the Murchison meteorite that landed in Australia as well as soil from the landing zone of the meteorite to determine the concentrations of various organic molecules. By comparing the relative concentrations of types of molecules known as nucleobases in the Murchison meteorite with those in the soil, the team concluded that there is evidence that the nucleobases in the Murchison meteorite formed in space and are not the result of contamination on Earth.

Which choice best describes data from the table that support the team's conclusion?

- A. Isoguanine and purine were detected in both meteorite samples but not in the soil sample.
- B. Adenine and xanthine were detected in both of the meteorite samples and in the soil sample.
- C. Hypoxanthine and purine were detected in both the Murchison meteorite sample 2 and in the soil sample.
- D. Isoguanine and hypoxanthine were detected in the Murchison meteorite sample 1 but not in sample 2.

ID: 27f23e11

During the Bourbon Restoration in France (1814–1830), the right to vote required in part that a person paid at least 300 francs in direct taxes to the government. The four most common taxes (the *quatre vieilles*) were levied on real estate (both land and buildings); the doors and windows in taxpayer homes; the rental values of homes; and the businesses of artisans and merchants. (Foreign investments were either exempt from taxation or taxed lightly.) Although relatively few people paid the tax on real estate, it was the main means of voter qualification and accounted for over two-thirds of government receipts during this period, suggesting that during the Bourbon Restoration _____

Which choice most logically completes the text?

- A. those people who had the right to vote most likely had substantial holdings of French real estate.
- B. the voting habits of French artisans and merchants were effective in reducing tax burdens on businesses.
- C. the number of doors and windows in French residences was kept to a minimum but increased after 1830.
- D. French people with significant foreign investments were unlikely to have the right to vote.

ID: 059bfe10

Oluwaseyi Moejoh cofounded U-recycle Initiative Africa when she was only a teenager. Moejoh and her team founded the organization to teach young people how their actions affect the environment and why recycling is important. For example, the organization put on an exhibit of art made using recycled materials.

According to the text, what is one reason Moejoh and others founded U-recycle Initiative Africa?

- A. To bring attention to overlooked African artists
- B. To teach young people why recycling is important
- C. To help adults gain important outdoor skills
- D. To give teenagers advice about starting businesses

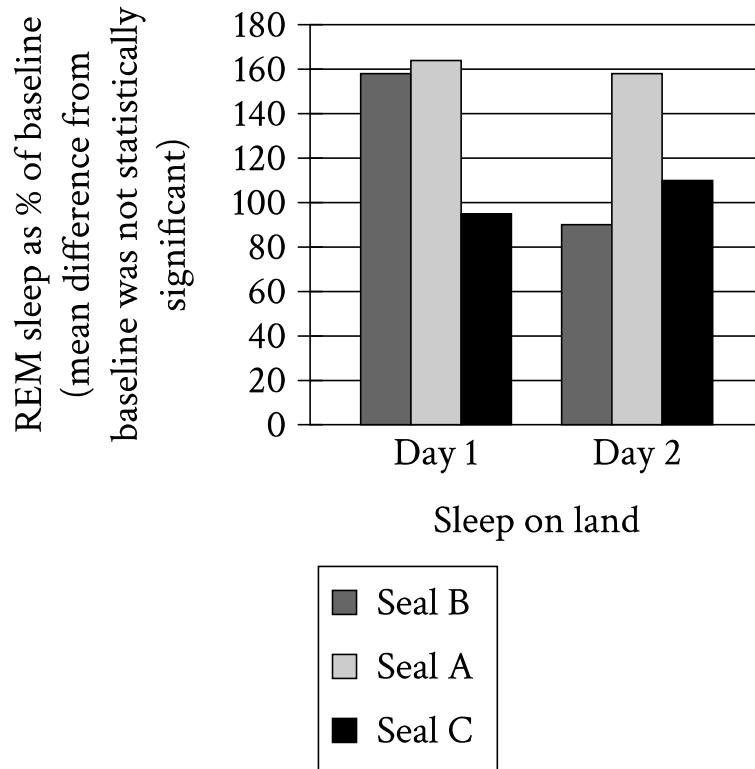
ID: 5f411925

"Ghosts of the Old Year" is an early 1900s poem by James Weldon Johnson. In the poem, the speaker describes experiencing an ongoing cycle of anticipation followed by regretful reflection: _____

Which quotation from "Ghosts of the Old Year" most effectively illustrates the claim?

- A. "What does this brazen tongue declare, / That falling on the midnight air / Brings to my heart a sense of care / Akin to fright?"
- B. "The snow has ceased its fluttering flight, / The wind sunk to a whisper light, / An ominous stillness fills the night, / A pause—a hush."
- C. "It tells of many a squandered day, / Of slighted gems and treasured clay, / Of precious stores not laid away, / Of fields unreaped."
- D. "And so the years go swiftly by, / Each, coming, brings ambitions high, / And each, departing, leaves a sigh / Linked to the past."

Fur Seal REM Sleep on Land
after an Extended Period
in Water



Research suggests that REM sleep in animals is homeostatically regulated: animals compensate for periods of REM sleep deprivation by increasing subsequent REM sleep. When on land, fur seals get enough REM sleep, but during the weeks they're in the water, they get almost none. In a study of fur seals' sleep habits, researchers recorded the REM sleep (as a percentage of baseline) of fur seals once they had returned to land. They concluded that REM sleep may not be homeostatically regulated in fur seals, citing as evidence the fact that the seals in the study _____.

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

- A. didn't show significantly less REM sleep during the second day after returning to land than they did during the first day.
- B. showed no significant differences from one another in baseline levels of REM sleep.
- C. didn't consistently demonstrate a significant increase in REM sleep after their period of deprivation in the water.
- D. showed no significant difference between REM sleep after returning to land and REM sleep while in the water.

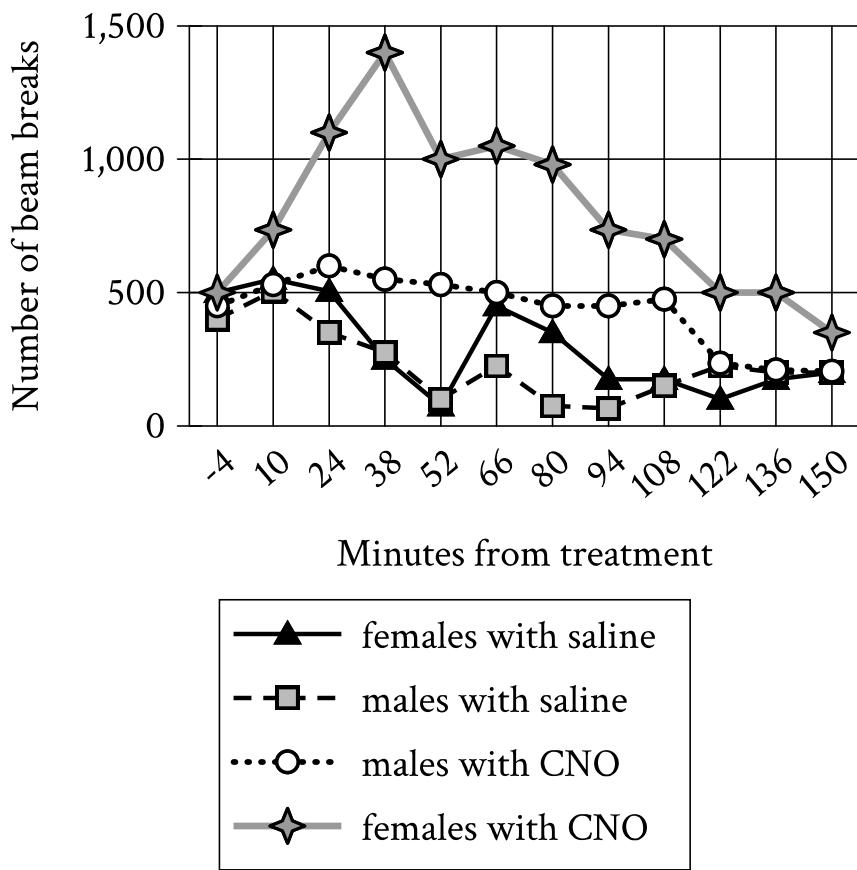
ID: e931b2f0

In her 2021 article “Throwaway History: Towards a Historiography of Ephemera,” scholar Anne Garner discusses John Johnson (1882–1956), a devoted collector of items intended to be discarded, including bus tickets and campaign pamphlets. Johnson recognized that scholarly institutions considered his expansive collection of ephemera to be worthless—indeed, it wasn’t until 1968, after Johnson’s death, that Oxford University’s Bodleian Library acquired the collection, having grasped the items’ potential value to historians and other researchers. Hence, the example of Johnson serves to _____

Which choice most logically completes the text?

- A. demonstrate the difficulties faced by contemporary historians in conducting research at the Bodleian Library without access to ephemera.
- B. represent the challenge of incorporating examples of ephemera into the collections of libraries and other scholarly institutions.
- C. lend support to arguments by historians and other researchers who continue to assert that ephemera holds no value for scholars.
- D. illustrate both the relatively low scholarly regard in which ephemera was once held and the later recognition of ephemera’s possible utility.

Number of Infrared Beam Breaks by Mice Treated with CNO or Saline, by Sex



To investigate the influence of certain estrogen-responsive neurons on energy expenditure, biologist Stephanie Correa et al. treated female and male mice with either saline solution or clozapine-N4-oxide (CNO), which activates the neurons. Monitoring the activity levels of the mice by measuring how frequently the animals broke infrared beams crossing their enclosures, Correa et al. found that the mice in their study showed sex-specific differences in response to neuron activation: _____

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

- A. the four groups of mice differed greatly in their activity levels before treatment but showed identical activity levels at the end of the monitoring period.
- B. saline-treated females showed substantially more activity at certain points in the monitoring period than saline-treated males did.
- C. CNO-treated females showed more activity relative to saline-treated females than CNO-treated males showed relative to saline-treated males.
- D. CNO-treated females showed a substantial increase and then decline in activity over the monitoring period, whereas CNO-treated males showed a substantial decline in activity followed by a steep increase.

ID: f1341fe1

Many governments that regularly transfer money to individuals—to provide supplemental incomes for senior citizens, for example—have long done so electronically, but other countries typically have distributed physical money and have only recently developed electronic transfer infrastructure. Researchers studied the introduction of an electronic transfer system in one such location and found that recipients of electronic transfers consumed a different array of foods than recipients of physical transfers of the same amount did. One potential explanation for this result is that individuals conceive of and allocate funds in physical money differently than they conceive of and allocate funds in electronic form.

Which finding from the study, if true, would most directly weaken the potential explanation?

- A. Recipients of electronic transfers typically spent their funds at a slower rate than recipients of physical transfers did.
- B. Nearly every recipient of an electronic transfer withdrew the entire amount in physical money shortly after receiving the transfer.
- C. Recipients of physical transfers tended to purchase food about as frequently as recipients of electronic transfers did.
- D. Some recipients of physical transfers received small amounts of money relatively frequently, while others received large amounts relatively infrequently.

ID: dd56f034

Electra is a circa 420–410 BCE play by Sophocles, translated in 1870 by R.C. Jebb. Electra, who is in mourning for her dead father and her long-absent brother, is aware of the intensity of her grief but believes it to be justified: _____

Which quotation from *Electra* most effectively illustrates the claim?

- A. "O thou pure sunlight, and thou air, earth's canopy, how often have ye heard the strains of my lament, the wild blows dealt against this bleeding breast, when dark night fails!"
- B. "Send to me my brother; for I have no more the strength to bear up alone against the load of grief that weighs me down."
- C. "I know my own passion, it escapes me not; but, seeing that the causes are so dire, will never curb these frenzied plaints, while life is in me."
- D. "But never will I cease from dirge and sore lament, while I look on the trembling rays of the bright stars, or on this light of day."

ID: 4c109ce5

Dutch painters in the sixteenth and seventeenth centuries often showed tables filled with large wheels of cheese or carved shards of butter. Some art historians, noting that dairy products were a major component of the Dutch diet, interpret these depictions as reflections of everyday Dutch eating habits. However, a group of researchers recently reviewed hundreds of food-related paintings and found that lemons—which could only be acquired in the Netherlands at great cost, since they had to be imported from warmer climates—feature in Dutch paintings of the period more than three times as frequently as dairy products do, thereby casting doubt on the idea that _____.

Which choice most logically completes the text?

- A. dairy products were a more significant component of the Dutch diet of the period than lemons were.
- B. food was a more popular subject among Dutch painters than it was among painters from other countries at the time.
- C. depictions of food in Dutch paintings of the period should be taken as realistic representations of Dutch eating habits.
- D. Dutch painters of the period may have depicted foods for symbolic reasons rather than to show what Dutch people typically ate.

ID: f93079ee

Songbirds learn to respond to and imitate their species' songs from an early age. With each generation, small differences are introduced that result in distinct variations—called dialects—among geographically isolated populations of the same species. A research study examined whether twelve-day-old *Ficedula hypoleuca* (pied flycatcher) nestlings prefer local dialects over the unfamiliar dialects of nonlocal *F. hypoleuca* populations: the more begging calls the nestlings made in response to a song, the stronger their preference. The researchers found that nestlings produced more begging calls in response to their own dialect than to nonlocal dialects. Since song preference plays a role in songbird mate selection, the finding suggests that

Which choice most logically completes the text?

- A. *F. hypoleuca* nestlings' preference for their own dialect likely disappears as they mature to promote socialization between different *F. hypoleuca* populations.
- B. *F. hypoleuca* nestlings who show an early preference for their own dialect are likely to receive more food from their caretakers than nestlings who show no preferences among any *F. hypoleuca* dialects.
- C. *F. hypoleuca* nestlings' preference for their own dialect likely drives them when they mature to reproduce with other *F. hypoleuca* from local rather than nonlocal populations.
- D. *F. hypoleuca* nestlings show a preference for both local *F. hypoleuca* dialects and the songs of other local songbirds over the songs of nonlocal birds of any species.

ID: c0964d70

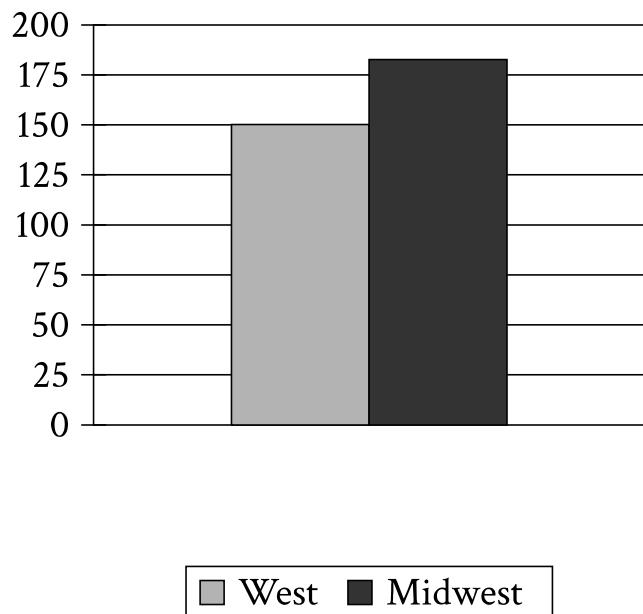
Some residents in a neighborhood in Atlanta recently founded a community garden inside a local park. The residents agreed to volunteer to take care of the garden together. Students at a local high school surveyed some of the volunteers as part of a project to understand the impact of the new garden. The students concluded that the new garden benefited the community overall by fostering connections and relationships between the volunteers and other residents of the neighborhood who weren't volunteering at the garden.

Which quotation from a survey respondent would best illustrate the students' conclusion?

- A. "Our first challenge was deciding what plants would be most suitable to the climate and soil here in Atlanta. We needed plants that could survive the hot and humid summers."
- B. "We're lucky to have a few expert gardeners living in the neighborhood. Some volunteers and I have gone to them a few times with questions, and they've been eager to help us and to learn more about the project."
- C. "I love getting the opportunity to be outside and around nature, especially on days when the weather is nice."
- D. "My favorite thing about the garden is the feeling of pride I get when I walk by each day. As I see the plants growing, I feel good knowing I had a small part in creating this beautiful space in the neighborhood."

Amount of Additional Electricity Wind
Turbines Could Generate When
Winds Were Stronger Than Forecast

Electricity (in thousands of MWh)



Electric companies that use wind turbines rely on weather forecasts to predict the maximum amount of power, in megawatt-hours (MWh), they can generate using wind so that they can determine how much they'll need to generate from other sources. When winds are stronger than they were forecast to be, however, the predicted maximum amount of electricity wind turbines could generate will be too low. For example, the graph shows that for the West region, the winds were _____.

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

- A. strong enough to generate about 150 thousand more MWh of electricity from wind turbines.
- B. so weak that the electricity from wind turbines was about 175 thousand MWh less than predicted.
- C. so weak that the electricity from wind turbines was about 150 thousand MWh less than predicted.
- D. strong enough to generate about 175 thousand more MWh of electricity from wind turbines.

The following text is from Edith Nesbit's 1902 novel *Five Children and It*. Five young siblings have just moved with their parents from London to a house in the countryside that they call the White House.

It was not really a pretty house at all; it was quite ordinary, and mother thought it was rather inconvenient, and was quite annoyed at there being no shelves, to speak of, and hardly a cupboard in the place. Father used to say that the ironwork on the roof and coping was like an architect's nightmare. But the house was deep in the country, with no other house in sight, and the children had been in London for two years, without so much as once going to the seaside even for a day by an excursion train, and so the White House seemed to them a sort of Fairy Palace set down in an Earthly Paradise.

Which choice best states the main idea of the text?

- A. Although their parents believe the house has several drawbacks, the children are enchanted by it.
- B. The children don't like the house nearly as much as their parents do.
- C. Each member of the family admires a different characteristic of the house.
- D. The house is beautiful and well built, but the children miss their old home in London.

ID: 2d64114f

Archaeologists have held that the Casarabe culture, which emerged in the southwestern Amazon basin in the first millennium CE, was characterized by a sparse, widely distributed population and little intervention in the surrounding wilderness. Recently, however, archaeologist Heiko Prümers and colleagues conducted a study of the region using remote-sensing technology that enabled them to create three-dimensional images of the jungle-covered landscape from above, and the researchers concluded that the Casarabe people developed a form of urbanism in the Amazon basin.

Which finding about the remote-sensing images, if true, would most directly support Prümers and colleagues' conclusion?

- A. They show shapes consistent with widely separated settlements of roughly equal small size surrounded by uncultivated jungle.
- B. They show shapes consistent with long-distance footpaths running from Casarabe territories to large cities outside the region inhabited by the Casarabe people.
- C. They show shapes consistent with scattered small farms created by clearing jungle areas near sources of fresh water.
- D. They show shapes consistent with monumental platforms and dense central settlements linked to smaller settlements by a system of canals and roadways.

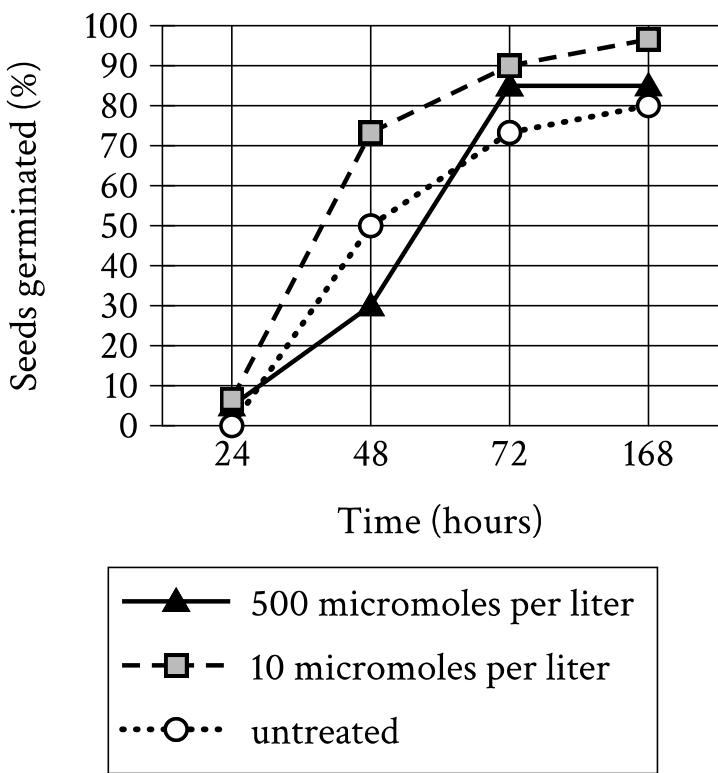
ID: bc2bfb8f

Scientists studying Mars long thought the history of its crust was relatively simple. One reason for this is that geologic and climate data collected by a spacecraft showed that the crust was largely composed of basalt, likely as a result of intense volcanic activity that brought about a magma ocean, which then cooled to form the planet's surface. A study led by Valerie Payré focused on additional information—further analysis of data collected by the spacecraft and infrared wavelengths detected from Mars's surface—that revealed the presence of surprisingly high concentrations of silica in certain regions on Mars. Since a planetary surface that formed in a mostly basaltic environment would be unlikely to contain large amounts of silica, Payré concluded that _____.

Which choice most logically completes the text?

- A. the information about silica concentrations collected by the spacecraft is likely more reliable than the silica information gleaned from infrared wavelengths detected from Mars's surface.
- B. high silica concentrations on Mars likely formed from a different process than that which formed the crusts of other planets.
- C. having a clearer understanding of the composition of Mars's crust and the processes by which it formed will provide more insight into how Earth's crust formed.
- D. Mars's crust likely formed as a result of other major geological events in addition to the cooling of a magma ocean.

Seed Germination with and without H₂S Treatment



In high concentrations, hydrogen sulfide (H₂S) is typically toxic to many plants. Frederick D. Dooley and colleagues wanted to understand what effects low doses of H₂S might have on plant growth. They treated bean, corn, wheat, and pea seeds with various concentrations (measured in micromoles per liter) of H₂S and tracked the germination of those seeds along with the germination of untreated seeds. Treatment with particular concentrations of H₂S was associated with accelerated germination: for example, _____.

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

- A. at 24 hours, less than 10% of seeds treated with H₂S at a concentration of 10 micromoles per liter had germinated, whereas more than 90% of those seeds had germinated at 168 hours.
- B. at 48 hours, more than 70% of seeds treated with H₂S at a concentration of 10 micromoles per liter had germinated, whereas only approximately 50% of untreated seeds had germinated.
- C. at 168 hours, more than 90% of seeds treated with H₂S at concentrations of 10 or 500 micromoles per liter had germinated, whereas less than 70% of untreated seeds had germinated.
- D. at 48 hours, approximately 50% of seeds treated with H₂S at a concentration of 10 micromoles per liter had germinated, whereas only approximately 30% of untreated seeds had germinated.

Participants' Evaluation of the Likelihood That Robots Can Work Effectively in Different Occupations

Occupation	Somewhat or very unlikely (%)	Neutral (%)	Somewhat or very likely (%)
television news anchor	24	9	67
teacher	37	16	47
firefighter	62	9	30
surgeon	74	9	16
tour guide	10	8	82

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

Georgia Tech roboticists De'Aira Bryant and Ayanna Howard, along with ethicist Jason Borenstein, were interested in people's perceptions of robots' competence. They recruited participants and asked them how likely they think it is that a robot could do the work required in various occupations. Participants' evaluations varied widely depending on which occupation was being considered; for example, _____

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

- A. 47% of participants believe that it is somewhat or very likely that a robot could work effectively as a teacher, but 37% of respondents believe that it is somewhat or very unlikely that a robot could do so.
- B. 9% of participants were neutral about whether a robot could work effectively as a television news anchor, which is the same percent of participants who were neutral when asked about a robot working as a surgeon.
- C. 82% of participants believe that it is somewhat or very likely that a robot could work effectively as a tour guide, but only 16% believe that it is somewhat or very likely that a robot could work as a surgeon.
- D. 62% of participants believe that it is somewhat or very unlikely that a robot could work effectively as a firefighter.

Body Length, Filter Time, and Lunges per Dive for Four Whale Species

Whale species	Typical adult body length (meters)	Average time to filter all engulfed water (seconds)	Average number of lunges per dive deeper than 50 meters
fin	18–22	31.30	3.95
humpback	11–17	17.12	6.28
minke	7–10	8.88	7.48
blue	24–34	60.27	4.02

Some whale species practice lunge feeding, in which they lunge toward prey with their mouths open at wide angles, collect the prey and the surrounding water, and then filter out the water through baleen plates in their mouths. Although the volume of water engulfed increases with whales' body length, the surface area of whales' baleen plates, which influences the rate at which water can be filtered, does not increase with body length to the same degree, which helps explain why _____.

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

- A. minke whales and humpback whales show similar average filter times.
- B. humpback whales show an average of 6.28 lunges per dive.
- C. fin whales show a longer average filter time than minke whales do.
- D. blue whales show the longest average filter time and the highest average number of lunges per dive.

Many intellectual histories of the Black Power movement of the 1960s and 1970s rely heavily on essays and other explicitly ideological works as primary sources, a tendency that can overrepresent the perspectives of a small number of thinkers, most of whom were male. Historian Ashley D. Farmer has shown that expanding the array of primary sources to encompass more types of print material—including political cartoons, advertisements, and artwork—leads to a much better understanding of the movement and the crucial and diverse roles that Black women played in shaping it.

Which choice best describes the main idea of the text?

- A. Farmer's methods and research have enriched the historical understanding of the Black Power movement and Black women's contributions to it.
- B. Before Farmer's research, historians had largely ignored the intellectual dimensions of the Black Power movement.
- C. Other historians of the Black Power movement have criticized Farmer's use of unconventional primary sources.
- D. The figures in the Black Power movement whom historians tend to cite would have agreed with Farmer's conclusions about women's roles in the movement.

ID: 5bac62e5

A common assumption among art historians is that the invention of photography in the mid-nineteenth century displaced the painted portrait in the public consciousness. The diminishing popularity of the portrait miniature, which coincided with the rise of photography, seems to support this claim. However, photography's impact on the portrait miniature may be overstated. Although records from art exhibitions in the Netherlands from 1820 to 1892 show a decrease in the number of both full-sized and miniature portraits submitted, this trend was established before the invention of photography.

Based on the text, what can be concluded about the diminishing popularity of the portrait miniature in the nineteenth century?

- A. Factors other than the rise of photography may be more directly responsible for the portrait miniature's decline.
- B. Although portrait miniatures became less common than photographs, they were widely regarded as having more artistic merit.
- C. The popularity of the portrait miniature likely persisted for longer than art historians have assumed.
- D. As demand for portrait miniatures decreased, portrait artists likely shifted their creative focus to photography.

ID: ab3a2ab4

Georgia Douglas Johnson wrote many plays in the 1920s and 1930s. At the time, professional theater companies rarely put on plays by Black women, so few of Johnson's plays made it to the stage. Only a small number of her plays were published in her lifetime. But that doesn't mean that Johnson never learned what other people thought of her plays. Johnson hosted weekly get-togethers for fellow Black writers and artists in her Washington, D.C., home. Attendees would read and discuss one another's work, including Johnson's own. These gatherings could therefore serve as _____

Which choice most logically completes the text?

- A. an occasion for professional theater companies to put on plays.
- B. an opportunity for Johnson to get feedback on her plays.
- C. a way for Johnson to learn about plays that were produced in other cities.
- D. subject matter for future plays by Johnson.

Distribution of Ecosystem Services Affected by Invasive Species by Service Type

Region (Overall)	Provisioning (75%)	Regulating (21%)	Cultural (4%)
West	73%	27%	0%
North	88%	12%	0%
South	79%	14%	7%
East	83%	6%	11%
Central	33%	67%	0%

To assess the impact of invasive species on ecosystems in Africa, Benis N. Egoh and colleagues reviewed government reports from those nations about how invasive species are undermining ecosystem services (aspects of the ecosystem on which residents depend). The services were sorted into three categories: provisioning (material resources from the ecosystem), regulating (natural processes such as cleaning the air or water), and cultural (nonmaterial benefits of ecosystems). Egoh and her team assert that countries in each region reported effects on provisioning services and that provisioning services represent the majority of the reported services.

Which choice best describes data from the table that support Egoh and colleagues' assertion?

- A. Provisioning services represent 73% of the services reported for the West region and 33% of those for the Central region, but they represent 75% of the services reported overall.
- B. None of the percentages shown for provisioning services are lower than 33%, and the overall percentage shown for provisioning services is 75%.
- C. Provisioning services are shown for each region, while no cultural services are shown for some regions.
- D. The greatest percentage shown for provisioning services is 88% for the North region, and the least shown for provisioning services is 33% for the Central region.

ID: 5bb02134

To dye wool, Navajo (Diné) weaver Lillie Taylor uses plants and vegetables from Arizona, where she lives. For example, she achieved the deep reds and browns featured in her 2003 rug *In the Path of the Four Seasons* by using Arizona dock roots, drying and grinding them before mixing the powder with water to create a dye bath. To intensify the appearance of certain colors, Taylor also sometimes mixes in clay obtained from nearby soil.

Which choice best states the main idea of the text?

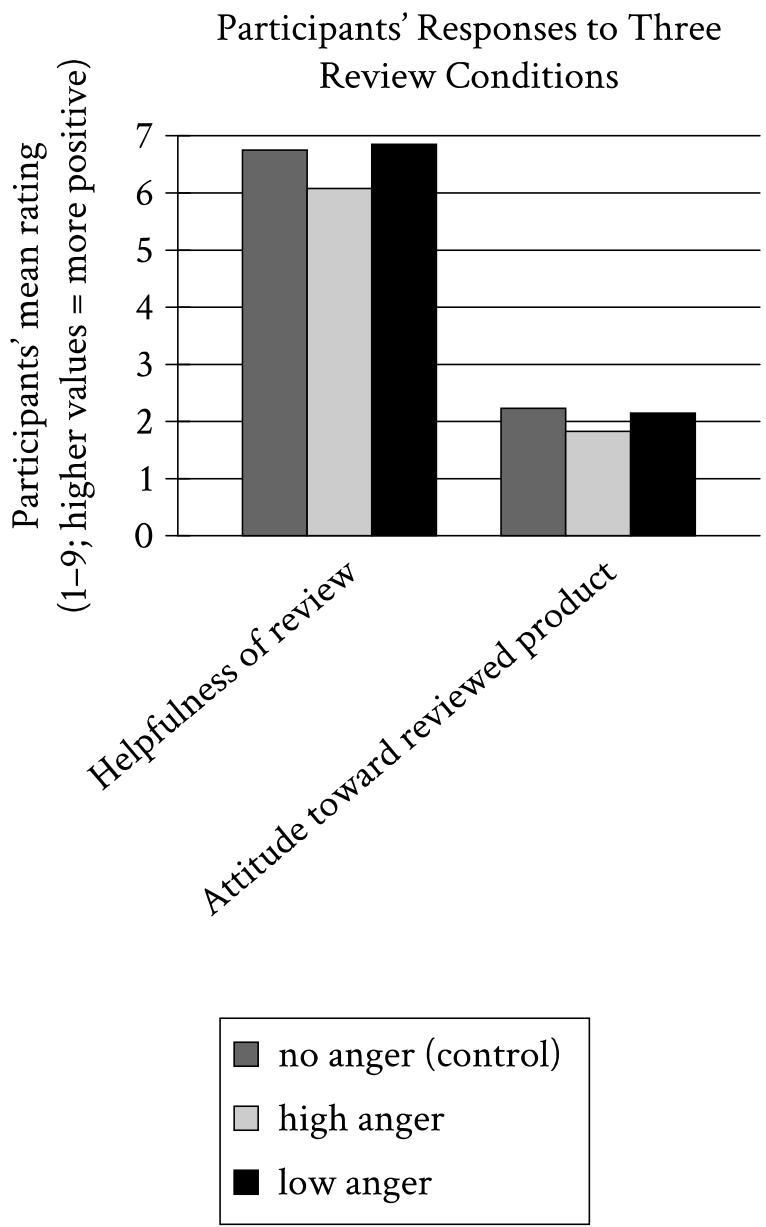
- A. Reds and browns are not commonly featured in most of Taylor's rugs.
- B. Taylor draws on local resources in the approach she uses to dye wool.
- C. Taylor finds it difficult to locate Arizona dock root in the desert.
- D. *In the Path of the Four Seasons* is widely acclaimed for its many colors and innovative weaving techniques.

ID: 03d9c538

Mosses can struggle in harsh desert conditions because these plants require enough sunlight for photosynthesis but not so much that they risk drying out. Researchers Jenna Ekwealor and Kirsten M. Fisher found several species of *Syntrichia caninervis*, a type of desert moss, growing under quartz crystals in California's Mojave Desert. To evaluate whether these semitransparent rocks benefited the moss, the researchers compared the shoot tissue, a measure of plant growth, of *S. caninervis* when growing on the soil surface versus when the moss was growing under the quartz rocks. They found that the shoot tissue was 62% longer for moss growing under the quartz as compared to moss on the soil surface, suggesting that

Which choice most logically completes the text?

- A. *S. caninervis* is one of the few types of moss that can survive under semitransparent rocks.
- B. quartz crystals do not transmit the necessary sunlight for photosynthesis in *S. caninervis*.
- C. *S. caninervis* growing under quartz crystals experience lower light intensity and are thus able to retain more moisture.
- D. quartz crystals are capable of supporting *S. caninervis* growth if the crystals are not too thin.



To understand how expressions of anger in reviews of products affect readers of those reviews, business scholar Dezhi Yin and colleagues measured study participants' responses to three versions of the same negative review—a control review expressing no anger, a review expressing a high degree of anger, and a review expressing a low degree of anger. Reviewing the data, a student concludes that the mere presence of anger in a review may not negatively affect readers' perceptions of the review, but a high degree of anger in a review does worsen readers' perceptions of the review.

Which choice best describes data from the graph that support the students' conclusion?

- On average, participants' ratings of the helpfulness of the review were substantially higher than were participants' ratings of the reviewed product regardless of which type of review participants had seen.
- Compared with participants who saw the control review, participants who saw the low-anger review rated the review as slightly more helpful, whereas participants who saw the high-anger review rated the review as less helpful.
- Participants who saw the low-anger review rated the review as slightly more helpful than participants who

saw the control review did, but participants' attitude toward the reviewed product was slightly worse when participants saw the low-anger review than when they saw the no-anger review.

- D. Compared with participants who saw the low-anger review, participants who saw the high-anger review rated the review as less helpful and had a less positive attitude toward the reviewed product.

Psychologists wanted to test how young children think about rewards and fairness. In an experiment, two teachers handed out rewards while children (ages four to six) watched. The teachers gave out the same number of rewards, but one of them counted the rewards out loud. The children were then asked who was fairer. 73% chose the teacher who counted. The psychologists think that counting showed the children that the teacher wanted to be fair. The children may have believed that the teacher who did not count did not care about fairness.

Which choice best states the main idea of the text?

- A. Psychologists think children cannot understand the concept of fairness until they are six years old.
- B. An experiment found that counting out loud is the best way to teach mathematical concepts to children.
- C. Psychologists think young children expect to be rewarded when the children show that they care about fairness.
- D. An experiment showed that the way rewards are given out may affect whether young children think the situation is fair.

ID: 9e6eec22

The Milky Way galaxy is composed of millions of stars in a relatively flat structure containing a thin disk and a thick disk. Based on computer simulations and analysis of data on the brightness, position, and chemical composition of about 250,000 stars in the thick disk (collected from two telescopes, one in China and one orbiting in space), astrophysicists Maosheng Xiang and Hans-Walter Rix claim that the thick disk of the Milky Way formed in two distinct phases rather than a single one.

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

- A. The telescopes used by the researchers have detected stars of similar ages in galaxies other than the Milky Way.
- B. There's an age difference of about 2 billion years between certain stars in the thick disk.
- C. The thin disk contains about twice as many stars that can be seen from Earth as the thick disk does.
- D. The stars in the Milky Way tend to have very similar chemical compositions.

ID: 9062ad0f

North American gray wolves usually have mixed gray and white fur, but some members of the species have a version of a gene, or gene variant, that gives them a mostly black coat instead. Sarah Cubaynes and her team studied twelve populations of North American gray wolves. They found that the black-furred wolves are more common in areas where outbreaks of distemper virus happen regularly. The team also discovered that the black-furred wolves are more likely to be immune to distemper than the gray-furred wolves are. Taken together, these findings suggest that _____

Which choice most logically completes the text?

- A. North American gray wolves experience more outbreaks of distemper virus than other wolf species do.
- B. the gene variant that results in black fur may be linked to immunity to the distemper virus.
- C. the average life span of gray wolves is likely to increase over time because of a particular gene variant.
- D. gray-furred wolves will soon replace black-furred wolves across North America.

Comfort Ratings and Temperature-Adjustment Preferences from
One Survey

Participant	Comfort rating	Preferred temperature adjustment
20	-2	Cooler
1	1	Cooler
21	1	Cooler

Nan Gao and her team conducted multiple surveys to determine participants' levels of comfort in a room where the temperature was regulated by a commercial climate control system. Participants filled out surveys several times a day to indicate their level of comfort on a scale from -3 (very cold) to +3 (very hot), with 0 indicating neutral (neither warm nor cool), and to indicate how they would prefer the temperature to be adjusted. The table shows three participants' responses in one of the surveys. According to the table, all three participants wanted the room to be cooler, _____.

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

- A. and they each reported the same level of comfort.
- B. even though each participant's ratings varied throughout the day.
- C. but participant 20 reported feeling significantly colder than the other two participants did.
- D. but participant 1 reported feeling warmer than the other two participants did.

ID: 88b4e212

Jackie Ormes's *Torchy Brown in Dixie to Harlem* (1937–38) was the first comic strip by a Black woman to appear in a widely read newspaper. The strip tells the story of Torch, a young woman who leaves Mississippi to become a performer in New York City. Torch's story reflects the experience of the Great Migration (1910–1970), when millions of Black Americans left the South in search of opportunities in other parts of the United States. *Torchy Brown* thus shows how Ormes used comics to comment humorously on issues affecting Black Americans, which she continued to do throughout her career.

Which choice best states the main purpose of the text?

- A. To show how Ormes's *Torchy Brown* inspired other Black women to write comic strips in the 1930s
- B. To illustrate how the subjects Ormes addressed in her comic strips changed over the course of her career
- C. To give an example of how Ormes presented the experiences of Black Americans in her comic strips
- D. To claim that several characters in *Torchy Brown* were based on people that Ormes knew personally

The following text is from F. Scott Fitzgerald's 1925 novel *The Great Gatsby*.

[Jay Gatsby] was balancing himself on the dashboard of his car with that resourcefulness of movement that is so peculiarly American—that comes, I suppose, with the absence of lifting work in youth and, even more, with the formless grace of our nervous, sporadic games. This quality was continually breaking through his punctilious manner in the shape of restlessness.

As used in the text, what does the word “quality” most nearly mean?

- A. Standard
- B. Prestige
- C. Characteristic
- D. Accomplishment

ID: 5046a8e3

In the mid-nineteenth century, some abolitionist newspapers _____ westward migration in the United States; by printing a letter that described the easy fortunes and high salaries miners could make in California during the Gold Rush, Frederick Douglass's newspaper *North Star* was one such publication that inspired readers to relocate.

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

- A. stimulated
- B. assigned
- C. opposed
- D. disregarded

Text 1

Films and television shows commonly include a long list of credits naming the people involved in a production. Credit sequences may not be exciting, but they generally ensure that everyone's contributions are duly acknowledged. Because they are highly standardized, film and television credits are also valuable to anyone researching the careers of pioneering cast and crew members who have worked in the mediums.

Text 2

Video game scholars face a major challenge in the industry's failure to consistently credit the artists, designers, and other contributors involved in making video games. Without a reliable record of which people worked on which games, questions about the medium's development can be difficult to answer, and the accomplishments of all but its best-known innovators can be difficult to trace.

Based on the texts, how would the author of Text 1 most likely respond to the discussion in Text 2?

- A. By recommending that the scholars mentioned in Text 2 consider employing the methods regularly used by film and television researchers
- B. By pointing out that credits have a different intended purpose in film and television than in the medium addressed by the scholars mentioned in Text 2
- C. By suggesting that the scholars mentioned in Text 2 rely more heavily on credits as a source of information than film and television researchers do
- D. By observing that a widespread practice in film and television largely prevents the kind of problem faced by the scholars mentioned in Text 2

ID: e2666b77

The following text is from Srimati Svarna Kumari Devi's 1894 novel *The Fatal Garland* (translated by A. Christina Albers in 1910). Shakti is walking near a riverbank that she visited frequently during her childhood.

She crossed the woods she knew so well. The trees seemed to extend their branches like welcoming arms. They greeted her as an old friend. Soon she reached the river-side.

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

- A. It suggests that Shakti feels uncomfortable near the river.
- B. It indicates that Shakti has lost her sense of direction in the woods.
- C. It emphasizes Shakti's sense of belonging in the landscape.
- D. It conveys Shakti's appreciation for her long-term friendships.

ID: c014a78c

In many agricultural environments, the banks of streams are kept forested to protect water quality, but it's been unclear what effects these forests may have on stream biodiversity. To investigate the issue, biologist Xingli Giam and colleagues studied an Indonesian oil palm plantation, comparing the species richness of forested streams with that of nonforested streams. Giam and colleagues found that species richness was significantly higher in forested streams, a finding the researchers attribute to the role leaf litter plays in sheltering fish from predators and providing food resources.

Which choice best states the main purpose of the text?

- A. It discusses research intended to settle a debate about how agricultural yields can be increased without negative effects on water quality.
- B. It explains the differences between stream-protection strategies used in oil palm plantations and stream-protection strategies used in other kinds of agricultural environments.
- C. It describes findings that challenge a previously held view about how fish that inhabit streams in agricultural environments attempt to avoid predators.
- D. It presents a study that addresses an unresolved question about the presence of forests along streams in agricultural environments.

ID: dac47b83

Stephen Hannock's luminous landscape paintings are appealing to viewers but have elicited little commentary from contemporary critics, a phenomenon that may be due to the very fact that the paintings seem so _____. Many critics focus their attention on art that is cryptic or overtly challenging.

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

- A. innovative
- B. subversive
- C. profound
- D. accessible

Text 1

Growth in the use of novel nanohybrids—materials created from the conjugation of multiple distinct nanomaterials, such as iron oxide and gold nanomaterials conjugated for use in magnetic imaging—has outpaced studies of nanohybrids' environmental risks. Unfortunately, risk evaluations based on nanohybrids' constituents are not reliable: conjugation may alter constituents' physiochemical properties such that innocuous nanomaterials form a nanohybrid that is anything but.

Text 2

The potential for enhanced toxicity of nanohybrids relative to the toxicity of constituent nanomaterials has drawn deserved attention, but the effects of nanomaterial conjugation vary by case. For instance, it was recently shown that a nanohybrid of silicon dioxide and zinc oxide preserved the desired optical transparency of zinc oxide nanoparticles while mitigating the nanoparticles' potential to damage DNA.

Based on the texts, how would the author of Text 2 most likely respond to the assertion in the underlined portion of Text 1?

- A. By concurring that the risk described in Text 1 should be evaluated but emphasizing that the risk is more than offset by the potential benefits of nanomaterial conjugation
- B. By arguing that the situation described in Text 1 may not be representative but conceding that the effects of nanomaterial conjugation are harder to predict than researchers had expected
- C. By denying that the circumstance described in Text 1 is likely to occur but acknowledging that many aspects of nanomaterial conjugation are still poorly understood
- D. By agreeing that the possibility described in Text 1 is a cause for concern but pointing out that nanomaterial conjugation does not inevitably produce that result

Text 1

Stage lighting theorist Adolphe Appia was perhaps the first to argue that light must be considered alongside all the various elements of a stage to create a single, unified performance. Researcher Kelly Bremner, however, has noted that Appia lacked technical expertise in the use of light in the theater. As a result of Appia's inexperience, Bremner argues, Appia's theory of light called for lighting practices that weren't possible until after the advent of electricity around 1881.

Text 2

Adolphe Appia was not an amateur in the practice of lighting. Instead, it is precisely his exposure to lighting techniques at the time that contributed to his theory on the importance of light. When working as an apprentice for a lighting specialist in his youth, Appia observed the use of portable lighting devices that could be operated by hand. This experience developed his understanding of what was possible in the coordination of elements on the stage.

Based on the texts, how would the author of Text 2 most likely respond to the claim about Appia's level of technical expertise made by Bremner in Text 1?

- A. Many lighting technicians dismissed Appia's ideas about light on the stage.
- B. Appia likely gained a level of technical expertise during his time as an apprentice.
- C. Theater practitioners who worked with Appia greatly admired his work.
- D. Appia was unfamiliar with the use of music and sound in theater.

ID: 5c9c3bca

Mineralogical differences are detectable in samples collected from two locations on the near-Earth asteroid Ryugu, but such differences may not indicate substantial compositional variations in the asteroid. Cosmochemist Kazuhide Nagashima and colleagues note that at the small scale of the samples, the distribution of minerals is unlikely to be _____.

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

- A. neglected
- B. redundant
- C. ongoing
- D. uniform

ID: 99022257

Archeological excavation of Market Street Chinatown, a nineteenth-century Chinese American community in San Jose, California, provided the first evidence that Asian food products were imported to the United States in the 1800s: bones from a freshwater fish species native to Southeast Asia. Jinshanzhuang–Hong Kong–based import/export firms—likely coordinated the fish’s transport from Chinese-operated fisheries in Vietnam and Malaysia to North American markets. This route reveals the (often overlooked) multinational dimensions of the trade networks linking Chinese diaspora communities.

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

- A. It explains why efforts to determine the country of origin of the items mentioned in the previous sentence remain inconclusive.
- B. It provides information that helps support a claim about a discovery’s significance that is presented in the following sentence.
- C. It traces the steps that were taken to locate and recover the objects that are described in the previous sentence.
- D. It outlines a hypothesis that additional evidence discussed in the following sentence casts some doubt on.

The following text is adapted from George Eliot's 1871–72 novel *Middlemarch*.

[Mr. Brooke] had travelled in his younger years, and was held in this part of the country to have contracted a too rambling habit of mind. Mr. Brooke's conclusions were as difficult to predict as the weather.

As used in the text, what does the word “contracted” most nearly mean?

- A. Restricted
- B. Described
- C. Developed
- D. Settled

ID: b0b02f2d

US traffic signals didn't always contain the familiar three lights (red, yellow, and green). Traffic lights only _____ red and green lights until the three-light traffic signal was developed in the 1920s.

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

- A. avoided
- B. featured
- C. appreciated
- D. disregarded

ID: fd7c6d0d

The following text is from Charlotte Perkins Gilman's 1910 poem "The Earth's Entail."

No matter how we cultivate the land,
Taming the forest and the prairie free;
No matter how we irrigate the sand,
Making the desert blossom at command,
We must always leave the borders of the sea;
The immeasureable reaches
Of the windy wave-wet beaches,
The million-mile-long margin of the sea.

Which choice best describes the overall structure of the text?

- A. The speaker argues against interfering with nature and then gives evidence supporting this interference.
- B. The speaker presents an account of efforts to dominate nature and then cautions that such efforts are only temporary.
- C. The speaker provides examples of an admirable way of approaching nature and then challenges that approach.
- D. The speaker describes attempts to control nature and then offers a reminder that not all nature is controllable.

ID: da17503b

Space scientists Anna-Lisa Paul, Stephen M. Elardo, and Robert Ferl planted seeds of *Arabidopsis thaliana* in samples of lunar regolith—the surface material of the Moon—and, serving as a control group, in terrestrial soil. They found that while all the seeds germinated, the roots of the regolith-grown plants were stunted compared with those in the control group. Moreover, unlike the plants in the control group, the regolith-grown plants exhibited red pigmentation, reduced leaf size, and inhibited growth rates—indicators of stress that were corroborated by postharvest molecular analysis.

Which choice best states the main purpose of the text?

- A. It describes an experiment that addressed an unresolved question about the extent to which lunar regolith resembles terrestrial soils.
- B. It compares two distinct methods of assessing indicators of stress in plants grown in a simulated lunar environment.
- C. It presents evidence in support of the hypothesis that seed germination in lunar habitats is an unattainable goal.
- D. It discusses the findings of a study that evaluated the effects of exposing a plant species to lunar soil conditions.

ID: 6a9bf335

Studying late nineteenth- and early twentieth-century artifacts from an agricultural and domestic site in Texas, archaeologist Ayana O. Flewelling found that Black women employed as farm workers utilized hook-and-eye closures to fasten their clothes at the waist, giving themselves a silhouette similar to the one that was popular in contemporary fashion and typically achieved through more restrictive garments such as corsets. Flewelling argues that this sartorial practice shows that these women balanced hegemonic ideals of femininity with the requirements of their physically demanding occupation.

Which choice best states the main purpose of the text?

- A. To describe an unexpected discovery that altered a researcher's view of how rapidly fashions among Black female farmworkers in late nineteenth- and early twentieth-century Texas changed during the period
- B. To discuss research that investigated the ways in which Black female farmworkers in late nineteenth- and early twentieth-century Texas used fashion practices to resist traditional gender ideals
- C. To evaluate a scholarly work that offers explanations for the impact of urban fashion ideals on Black female farmworkers in late nineteenth- and early twentieth-century Texas
- D. To summarize the findings of a study that explored factors influencing a fashion practice among Black female farmworkers in late nineteenth- and early twentieth-century Texas

ID: c4c7ef40

In 2008 a complete set of ancient *pessoi* (glass game pieces) was uncovered from beneath a paving stone in modern-day Israel. Due to their small size, *pessoi* were easily misplaced, making a whole set a rare find. This has led some experts to suggest that the set may have been buried intentionally; however, without clear evidence, archaeologists are left to _____ what happened.

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

- A. speculate about
- B. dismiss
- C. expand on
- D. catalog

ID: 914dc048

The Appalachian Trail is a hiking path in the eastern United States. Much of the 2,000 mile trail passes through wilderness areas. In order to _____ those areas, the United States Congress passed the National Trails System Act in 1968, ensuring that the trail would not be sold or commercially developed.

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

- A. borrow
- B. postpone
- C. protect
- D. decorate

Text 1

Fossils of the hominin *Australopithecus africanus* have been found in the Sterkfontein Caves of South Africa, but assigning an age to the fossils is challenging because of the unreliability of dating methods in this context. The geology of Sterkfontein has caused soil layers from different periods to mix, impeding stratigraphic dating, and dates cannot be reliably imputed from those of nearby animal bones since the bones may have been relocated by flooding.

Text 2

Archaeologists used new cosmogenic nuclide dating techniques to reevaluate the ages of *A. africanus* fossils found in the Sterkfontein Caves. This technique involves analyzing the cosmogenic nucleotides in the breccia—the matrix of rock fragments immediately surrounding the fossils. The researchers assert that this approach avoids the potential for misdating associated with assigning ages based on Sterkfontein's soil layers or animal bones.

Based on the texts, how would the researchers in Text 2 most likely respond to the underlined portion in Text 1?

- A. They would emphasize the fact that the *A. africanus* fossils found in the Sterkfontein Caves may have been corrupted in some way over the years.
- B. They would contend that if analyses of surrounding layers and bones in the Sterkfontein Caves were combined, then the dating of the fossils there would be more accurate.
- C. They would argue that their techniques are better suited than other methods to the unique challenges posed by the Sterkfontein Caves.
- D. They would claim that cosmogenic nuclide dating is reliable in the context of the Sterkfontein Caves because it is applied to the fossils directly.

According to Indian economist and sociologist Radhakamal Mukerjee (1889–1968), the Eurocentric concepts that informed early twentieth-century social scientific methods—for example, the idea that all social relations are reducible to struggles between individuals—had little relevance for India. Making the social sciences more responsive to Indians' needs, Mukerjee argued, required constructing analytical categories informed by India's cultural and ecological circumstances. Mukerjee thus proposed the communalist "Indian village" as the ideal model on which to base Indian economic and social policy.

Which choice best describes the overall structure of the text?

- A. The text recounts Mukerjee's early training in the social scientific disciplines and then lists social policies whose implementation Mukerjee oversaw.
- B. The text mentions some of Mukerjee's economic theories and then traces their impact on other Indian social scientists of the twentieth century.
- C. The text presents Mukerjee's critique of the social sciences and then provides an example of his attempts to address issues he identified in his critique.
- D. The text explains an influential economic theory and then demonstrates how that theory was more important to Mukerjee's work than other social scientists have acknowledged.

ID: bfad2097

Investigating whether shared false visual memories—specific but inaccurate and widely held recollections of images such as product logos—are caused by people's previous _____ incorrect renditions of the images, researchers Deepasri Prasad and Wilma Bainbridge found that, in fact, such memories are often not explained by familiarity with erroneous versions of the images.

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

- A. compliance with
- B. exposure to
- C. criteria for
- D. forfeiture of

Works of moral philosophy, such as Plato's *Republic* or Aristotle's *Nicomachean Ethics*, are partly concerned with how to live a morally good life. But philosopher Jonathan Barnes argues that works that present a method of living such a life without also supplying a motive are inherently useful only to those already wishing to be morally good—those with no desire for moral goodness will not choose to follow their rules. However, some works of moral philosophy attempt to describe what constitutes a morally good life while also proposing reasons for living one.

Which choice best describes the overall structure of the text?

- A. It provides a characterization about a field of thought by noting two works in it and then details a way in which some works in that field are more comprehensive than others.
- B. It mentions two renowned works and then claims that despite their popularity it is impossible for these works to serve the purpose their authors intended.
- C. It summarizes the history of a field of thought by discussing two works and then proposes a topic of further research for specialists in that field.
- D. It describes two influential works and then explains why one is more widely read than the other.

The following text is adapted from Nathaniel Hawthorne's 1837 story "Dr. Heidegger's Experiment." The main character, a physician, is experimenting with rehydrating a dried flower.

At first [the rose] lay lightly on the surface of the fluid, appearing to imbibe none of its moisture. Soon, however, a singular change began to be visible. The crushed and dried petals stirred and assumed a deepening tinge of crimson, as if the flower were reviving from a deathlike slumber.

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

- A. A lonely
- B. A disagreeable
- C. An acceptable
- D. An extraordinary

In the *Here and Now Storybook* (1921), educator Lucy Sprague Mitchell advanced the then controversial idea that books for very young children should imitate how they use language, since toddlers, who cannot yet grasp narrative or abstract ideas, seek reassurance in verbal repetition and naming. The most enduring example of this idea is Margaret Wise Brown's 1947 picture book *Goodnight Moon*, in which a young rabbit names the objects in his room as he drifts off to sleep. Scholars note that the book's emphasis on repetition, rhythm, and nonsense rhyme speaks directly to Mitchell's influence.

Which choice best describes the overall structure of the text?

- A. The text outlines a debate between two authors of children's literature and then traces how that debate shaped theories on early childhood education.
- B. The text summarizes an argument about how children's literature should be evaluated and then discusses a contrasting view on that subject.
- C. The text lists the literary characteristics that are common to many classics of children's literature and then indicates the narrative subjects that are most appropriate for young children.
- D. The text presents a philosophy about what material is most suitable for children's literature and then describes a book influenced by that philosophy.

Using NASA's powerful James Webb Space Telescope (JWST), Mercedes López-Morales and colleagues measured the wavelengths of light traveling through the atmosphere of WASP-39b, an exoplanet, or planet outside our solar system. Different molecules absorb different wavelengths of light, and the wavelength measurements showed the presence of carbon dioxide (CO_2) in WASP-39b's atmosphere. This finding not only offers the first decisive evidence of CO_2 in the atmosphere of an exoplanet but also illustrates the potential for future scientific breakthroughs held by the JWST.

Which choice best describes the overall structure of the text?

- A. It discusses a method used by some researchers, then states why an alternative method is superior to it.
- B. It describes how researchers made a scientific discovery, then explains the importance of that discovery.
- C. It outlines the steps taken in a scientific study, then presents a hypothesis based on that study.
- D. It examines how a group of scientists reached a conclusion, then shows how other scientists have challenged that conclusion.

In Jane Austen's novel *Mansfield Park*, an almost imperceptible smile from potential suitor Henry Crawford causes the protagonist Fanny Price to blush; her embarrassment grows when she suspects that he is aware of it. This moment—in which Fanny not only infers Henry's mental state through his gestures, but also infers that he is drawing inferences about *her* mental state—illustrates what literary scholar George Butte calls "deep intersubjectivity," a technique for representing interactions between consciousnesses through which Austen's novels derive much of their social and psychological drama.

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

- A. It states a claim about Austen's skill at representing psychological complexity that is reinforced by an example presented in the following sentence.
- B. It advances an interpretation of an Austen protagonist who is contrasted with protagonists from other Austen novels cited in the following sentence.
- C. It describes a recurring theme in Austen's novels that is the focus of a literary scholar's analysis summarized in the following sentence.
- D. It provides a synopsis of an interaction in an Austen novel that illustrates a literary concept discussed in the following sentence.

Text 1

The idea that time moves in only one direction is instinctively understood, yet it puzzles physicists. According to the second law of thermodynamics, at a macroscopic level some processes of heat transfer are irreversible due to the production of entropy—after a transfer we cannot rewind time and place molecules back exactly where they were before, just as we cannot unbreak dropped eggs. But laws of physics at a microscopic or quantum level hold that those processes *should* be reversible.

Text 2

In 2015, physicists Tiago Batalhão et al. performed an experiment in which they confirmed the irreversibility of thermodynamic processes at a quantum level, producing entropy by applying a rapidly oscillating magnetic field to a system of carbon-13 atoms in liquid chloroform. But the experiment “does not pinpoint ... what causes [irreversibility] at the microscopic level,” coauthor Mauro Paternostro said.

Based on the texts, what would the author of Text 1 most likely say about the experiment described in Text 2?

- A. It would suggest an interesting direction for future research were it not the case that two of the physicists who conducted the experiment disagree on the significance of its findings.
- B. It provides empirical evidence that the current understanding of an aspect of physics at a microscopic level must be incomplete.
- C. It is consistent with the current understanding of physics at a microscopic level but not at a macroscopic level.
- D. It supports a claim about an isolated system of atoms in a laboratory, but that claim should not be extrapolated to a general claim about the universe.

Text 1

Italian painters in the 1500s rarely depicted themselves in their work. Even more rare were self-portrait paintings that portrayed the artist as a painter. At the time, painting was not yet respected as a profession, so painters mostly chose to emphasize other qualities in their self-portraits, like their intellect or social status. In the city of Bologna, the first artist to depict himself painting was a man named Annibale Carracci. A painting of his from around 1585 shows Carracci in front of an easel holding a palette.

Text 2

In their self-portraits, Bolognese artists typically avoided referring to the act of painting until the mid-1600s. However, Lavinia Fontana's 1577 painting, *Self-Portrait at the Keyboard*, stands out as the earliest example of such a work by an artist from Bologna. Although the artist is depicted playing music, in the background, one can spot a painting easel by a window.

Based on the texts, how would the author of Text 2 most likely respond to the underlined claim in Text 1?

- A. Carracci and Fontana were among the most well-respected painters in Bologna at the time.
- B. The depiction of Fontana in *Self-Portrait at the Keyboard* was intended to underscore the artist's creativity.
- C. Fontana likely inspired the reference to an easel and palette in Carracci's painting.
- D. *Self-Portrait at the Keyboard* was painted earlier than Carracci's painting and also refers to the artist's craft.

Text 1

Soy sauce, made from fermented soybeans, is noted for its umami flavor. Umami—one of the five basic tastes along with sweet, bitter, salty, and sour—was formally classified when its taste receptors were discovered in the 2000s. In 2007, to define the pure umami flavor scientists Rie Ishii and Michael O'Mahony used broths made from shiitake mushrooms and kombu seaweed, and two panels of Japanese and US judges closely agreed on a description of the taste.

Text 2

A 2022 experiment by Manon Jünger et al. led to a greater understanding of soy sauce's flavor profile. The team initially presented a mixture of compounds with low molecular weights to taste testers who found it was not as salty or bitter as real soy sauce. Further analysis of soy sauce identified proteins, including dipeptides, that enhanced umami flavor and also contributed to saltiness. The team then made a mix of 50 chemical compounds that re-created soy sauce's flavor.

Based on the texts, if Ishii and O'Mahony (Text 1) and Jünger et al. (Text 2) were aware of the findings of both experiments, they would most likely agree with which statement?

- A. On average, the diets of people in the United States tend to have fewer foods that contain certain dipeptides than the diets of people in Japan have.
- B. Chemical compounds that activate both the umami and salty taste receptors tend to have a higher molecular weight than those that only activate umami taste receptors.
- C. Fermentation introduces proteins responsible for the increase of umami flavor in soy sauce, and those proteins also increase the perception of saltiness.
- D. The broths in the 2007 experiment most likely did not have a substantial amount of the dipeptides that played a key part in the 2022 experiment.

The following text is from Yann Martel's 2001 novel *Life of Pi*. The narrator's family owned a zoo when he was a child.

It was a huge zoo, spread over numberless acres, big enough to require a train to explore it, though it seemed to get smaller as I grew older, train included.

©2001 by Yann Martel

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

- A. Hidden
- B. Discussed
- C. Extended
- D. Coated

ID: deb55365

While most animals are incapable of passing somatic mutations—genetic alterations that arise in an organism's nonreproductive cells—on to their offspring, elkhorn coral (*Acropora palmata*) presents an intriguing ____: in a 2022 study, researchers found that elkhorn coral produced offspring that inherited somatic mutations from a parent.

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

- A. hypothesis
- B. affinity
- C. anomaly
- D. corroboration

The following text is adapted from Mohsin Hamid's 2017 novel *Exit West*. Saeed lives with his mother and father.

On cloudless nights after a daytime rain, Saeed's father would sometimes bring out the telescope, and the family would sip green tea on their balcony, enjoying a breeze, and take turns to look up at objects whose light, often, had been emitted before any of these three viewers had been born—light from other centuries, only now reaching Earth.

©2017 by Mohsin Hamid

As used in the text, what does the word “reaching” most nearly mean?

- A. Arriving at
- B. Consulting with
- C. Running to
- D. Clinging to

Text 1

Dance choreographer Alvin Ailey's deep admiration for jazz music can most clearly be felt in the rhythms and beats his works were set to. Ailey collaborated with some of the greatest jazz legends, like Charles Mingus, Charlie Parker, and perhaps his favorite, Duke Ellington. With his choice of music, Ailey helped bring jazz to life for his audiences.

Text 2

Jazz is present throughout Ailey's work, but it's most visible in Ailey's approach to choreography. Ailey often incorporated improvisation, a signature characteristic of jazz music, in his work. When managing his dance company, Ailey rarely forced his dancers to an exact set of specific moves. Instead, he encouraged his dancers to let their own skills and experiences shape their performances, as jazz musicians do.

Based on the texts, both authors would most likely agree with which statement?

- A. Dancers who worked with Ailey greatly appreciated his supportive approach as a choreographer.
- B. Ailey's work was strongly influenced by jazz.
- C. Audiences were mostly unfamiliar with the jazz music in Ailey's works.
- D. Ailey blended multiple genres of music together when choreographing dance pieces.

ID: 893975a3

The following text is adapted from Zora Neale Hurston's 1921 short story "John Redding Goes to Sea." John wants to travel far beyond the village where he lives near his mother, Matty.

[John] had on several occasions attempted to reconcile his mother to the notion, but found it a difficult task. Matty always took refuge in self-pity and tears. Her son's desires were incomprehensible to her, that was all.

As used in the text, what does the phrase "reconcile his mother to" most nearly mean?

- A. Get his mother to accept
- B. Get his mother to apologize for
- C. Get his mother to match
- D. Get his mother to reunite with

Economist Marco Castillo and colleagues showed that nuisance costs—the time and effort people must spend to make donations—reduce charitable giving. Charities can mitigate this effect by compensating donors for nuisance costs, but those costs, though variable, are largely _____ donation size, so charities that compensate donors will likely favor attracting a few large donors over many small donors.

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

- A. supplemental to
- B. predictive of
- C. independent of
- D. subsumed in

Text 1

For decades, bluegrass musicians have debated whether their genre should exclude influences from mainstream genres such as rock. Many insist that bluegrass is defined by its adherence to the folk music of the US South, out of which bluegrass emerged. Such “purists,” as they are known, regard the recordings of Bill Monroe, which established the bluegrass sound in the 1940s, as a standard against which the genre should still be measured.

Text 2

Bluegrass isn’t simply an extension of folk traditions into the era of recorded music. In reality, Bill Monroe created the bluegrass sound in the 1940s by combining Southern folk music with commercial genres that had arisen only a few decades before, such as jazz and the blues. Since bluegrass has always been a mixed genre, contemporary bluegrass musicians should not be forbidden from incorporating into it influences from rock and other mainstream genres.

Based on the texts, how would the author of Text 2 most likely regard the perspective of bluegrass purists, as described in Text 1?

- A. As inconsistent, since bluegrass purists themselves enjoy other musical genres
- B. As unrealistic, since bluegrass purists have no way of enforcing their musical preferences
- C. As shortsighted, because bluegrass could enlarge its audience by including influences from mainstream genres
- D. As illogical, because the purists overlook crucial aspects of how the bluegrass sound first originated.

ID: 2e6f2fb0

Researchers have found a nearly 164,000-year-old molar from a member of the archaic human species known as Denisovans in a cave in Laos, suggesting that Denisovans lived in a wider range of environments than indicated by earlier evidence. Before the discovery, Denisovans were thought to have lived only at high altitudes in relatively cold climates in what are now Russia and China, but the discovery of the tooth in Laos suggests that they may have lived at low altitudes in relatively warm climates in Southeast Asia as well.

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

- A. It dismisses as untrue the research presented in the previous sentence.
- B. It defines a term used in the description that follows in the rest of the sentence.
- C. It emphasizes the main goal of the research introduced in the previous sentence.
- D. It provides context that clarifies the significance of the information that follows in the rest of the sentence.

ID: 5b71d7b1

In 1973, poet Miguel Algarín started inviting other writers who, like him, were Nuyorican—a term for New Yorkers of Puerto Rican heritage—to gather in his apartment to present their work. The gatherings were so well attended that Algarín soon had to rent space in a cafe to accommodate them. Thus, the Nuyorican Poets Cafe was born. Moving to a permanent location in 1981, the Nuyorican Poets Cafe expanded its original scope beyond the written word, hosting art exhibitions and musical performances as well. Half a century since its inception, it continues to foster emerging Nuyorican talent.

Which choice best describes the overall purpose of the text?

- A. To explain what motivated Algarín to found the Nuyorican Poets Cafe
- B. To situate the Nuyorican Poets Cafe within the cultural life of New York as a whole
- C. To discuss why the Nuyorican Poets Cafe expanded its scope to include art and music
- D. To provide an overview of the founding and mission of the Nuyorican Poets Cafe

ID: f9a72856

Visual artist Gabriela Alemán states that the bold colors of comics, pop art, and Latinx culture have always fascinated her. This passion for the rich history and colors of her Latinx community translates into the _____ artworks she produces.

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

- A. vivid
- B. unknown
- C. definite
- D. reserved

ID: cb771ec1

Business researcher Melanie Brucks and colleagues found that remote video conference meetings may be less conducive to brainstorming than in-person meetings are. The researchers suspect that video meeting participants are focused on staring at the speaker on the screen and don't allow their eyes or mind to wander as much, which may ultimately _____ creativity.

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

- A. recommend
- B. criticize
- C. impede
- D. construct

ID: 8be97589

Hiroshi Senju is known worldwide for his paintings of waterfalls. These paintings are large and tend not to show the entire waterfall. Instead, Senju focuses on just the point where the falling water reaches the pool below, keeping the top of the waterfall out of view. While Senju's paintings are rooted in art movements originating in the United States, the artist uses traditional Japanese techniques and materials that make his work instantly recognizable.

Which choice best describes the overall structure of the text?

- A. It introduces an artist and then explains some common characteristics of well-known paintings by that artist.
- B. It explains a specific painting technique and then provides examples of artists who use the technique.
- C. It describes a famous painting and then compares it to a lesser-known painting from the same time period.
- D. It gives an opinion on an artist and then suggests multiple reasons why the artist's work has been largely overlooked.

ID: c6da512f

While scholars believe many Mesoamerican cities influenced each other, direct evidence of such influence is difficult to ascertain. However, recent excavations in a sector of Tikal (Guatemala) unearthed a citadel that shows _____ Teotihuacán (Mexico) architecture—including a near replica of a famed Teotihuacán temple—providing tangible evidence of outside influence in portions of Tikal.

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

- A. refinements of
- B. precursors of
- C. commonalities with
- D. animosities toward

ID: 129e7ae3

In recommending Bao Phi's collection *Sông I Sing*, a librarian noted that pieces by the spoken-word poet don't lose their _____ nature when printed: the language has the same pleasant musical quality on the page as it does when performed by Phi.

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

- A. scholarly
- B. melodic
- C. jarring
- D. personal

Text 1

Historians studying pre-Inca Peru have looked to ceramic vessels to understand daily life among the Moche people. These mold-made sculptures present plants, animals, and human faces in precise ways—vessels representing human faces are so detailed that scholars have interpreted facial markings to represent scars and other skin irregularities. Some historians have even used these objects to identify potential skin diseases that may have afflicted people at the time.

Text 2

Art historian and archaeologist Lisa Trever has argued that the interpretation of Moche “portrait” vessels as hyper-realistic portrayals of identifiable people may inadvertently disregard the creativity of the objects’ creators. Moche ceramic vessels, Trever argues, are artworks in which sculptors could free their imagination, using realistic objects and people around them as inspiration to explore more abstract concepts.

Based on the texts, what would Lisa Trever (Text 2) most likely say about the interpretation presented in the underlined portion of Text 1?

- A. Depictions of human faces are significantly more realistic than depictions of plants and other animals are.
- B. It is likely that some depictions of human faces with extensive markings are intended to portray the same historical individual.
- C. Some vessels may have been damaged during their excavation and thus provide little insight into Moche culture.
- D. Markings on depictions of human faces are not necessarily intended to portray particular details about the physical appearance of individuals.

ID: 4bda3cab

Osage Nation citizen Randy Tinker-Smith produced and directed the ballet *Wahzhazhe*, which vividly chronicles Osage history and culture. Telling Osage stories through ballet is _____ choice because two of the foremost ballet dancers of the twentieth century were Osage: sisters Maria and Marjorie Tallchief.

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

- A. a suitable
- B. a determined
- C. an arbitrary
- D. an unpredictable

ID: 40bd08d8

Biologist Jane Edgeloë and colleagues have located what is believed to be the largest individual plant in the world in the Shark Bay area of Australia. The plant is a type of seagrass called *Posidonia australis*, and it _____ approximately 200 square kilometers.

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

- A. acknowledges
- B. produces
- C. spans
- D. advances

ID: 2e5a7736

As an undergraduate researcher in anthropology, Jennifer C. Chen contributed to a groundbreaking study challenging the accepted view that among prehistoric peoples, female participation in hunting was _____. The research team's review of data from late Pleistocene and early Holocene burials in the Americas revealed that, in fact, as many as half of the hunters in those populations were female.

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

- A. inevitable
- B. satisfactory
- C. negligible
- D. commonplace

Text 1

Some animal species, like the leopard, can be found in many kinds of areas. On the other hand, tropical mountain bird species tend to be limited in the types of spaces they can call home. This is because many mountain bird species are only able to survive at very specific elevations. Over time, these species have likely become used to living at a specific temperature. Therefore, these species struggle to survive at elevations that are warmer or colder than they are used to.

Text 2

A new study reviewed observations of nearly 3,000 bird species to understand why tropical mountain bird species live at specific elevations. They noted that when a mountain bird species was found in an area with many other bird species, it tended to inhabit much smaller geographic areas. It is thus likely that competition for resources with other species, not temperature, limits where these birds can live.

Based on the texts, both authors would most likely agree with which statement?

- A. Tropical mountain bird species are restricted in where they can live.
- B. Scientists have better tools to observe tropical mountain birds than they did in the past.
- C. Little is known about how tropical mountain birds build their nests.
- D. Tropical mountain bird species that live at high elevations tend to be genetically similar.

Text 1

Polar bears sustain themselves primarily by hunting seals on the Arctic sea ice, but rising ocean temperatures are causing the ice to diminish, raising concerns about polar bear population declines as these large predators' seal-hunting habitats continue to shrink. A 2020 study examining polar bear populations across the Arctic concluded that populations affected by sea-ice loss are at great risk of extinction by the end of the twenty-first century.

Text 2

Monitoring carried out by researchers from the Norwegian Polar Institute shows that the polar bear population on the Arctic archipelago of Svalbard remains stable and well nourished despite rapidly declining sea ice in recent years. The researchers attribute this population's resilience in part to a shift in feeding strategies: in addition to hunting seals, the Svalbard polar bears have begun relying on a diet of reindeer meat and birds' eggs.

Based on the texts, how would the researchers in Text 2 most likely respond to the conclusion presented in the underlined portion of Text 1?

- A. By noting that it neglects the possibility of some polar bear populations adapting to changes in their environment
- B. By suggesting that it is likely incorrect about the rates at which warming ocean temperatures have caused sea ice to melt in the Arctic
- C. By asserting that it overlooks polar bear populations that have not yet been affected by loss of seal-hunting habitats
- D. By arguing that it fails to account for polar bears' reliance on a single seal-hunting strategy

Text 1

Virginia Woolf's 1928 novel *Orlando* is an oddity within her body of work. Her other major novels consist mainly of scenes of everyday life and describe their characters' interior states in great detail, whereas *Orlando* propels itself through a series of fantastical events and considers its characters' psychology more superficially. Woolf herself sometimes regarded the novel as a minor work, even admitting once that she "began it as a joke."

Text 2

Like Woolf's other great novels, *Orlando* portrays how people's memories inform their experience of the present. Like those works, it examines how people navigate social interactions shaped by gender and social class. Though it is lighter in tone—more entertaining, even—this literary "joke" nonetheless engages seriously with the themes that motivated the four or five other novels by Woolf that have achieved the status of literary classics.

Based on the texts, how would the author of Text 2 most likely respond to the assessment of *Orlando* presented in Text 1?

- A. By conceding that Woolf's talents were best suited to serious novels but asserting that the humor in *Orlando* is often effective
- B. By agreeing that *Orlando* is less impressive than certain other novels by Woolf but arguing that it should still be regarded as a classic
- C. By acknowledging that *Orlando* clearly differs from Woolf's other major novels but insisting on its centrality to her body of work nonetheless
- D. By concurring that the reputation of *Orlando* as a minor work has led readers to overlook this novel but maintaining that the reputation is unearned

Text 1

Like the work of Ralph Ellison before her, Toni Morrison's novels feature scenes in which characters deliver sermons of such length and verbal dexterity that for a time, the text exchanges the formal parameters of fiction for those of oral literature. Given the many other echoes of Ellison in Morrison's novels, both in structure and prose style, these scenes suggest Ellison's direct influence on Morrison.

Text 2

In their destabilizing effect on literary form, the sermons in Morrison's works recall those in Ellison's. Yet literature by Black Americans abounds in moments where interpolated speech erodes the division between oral and written forms that literature in English has traditionally observed. Morrison's use of the sermon is attributable not only to the influence of Ellison but also to a community-wide strategy of resistance to externally imposed literary conventions.

Based on the texts, how would the author of Text 2 most likely characterize the underlined claim in Text 1?

- A. As failing to consider Ellison's and Morrison's equivalent uses of the sermon within the wider cultural context in which they wrote
- B. As misunderstanding the function of sermons in novels by Black American writers other than Ellison and Morrison
- C. As disregarding points of structural and stylistic divergence between the works of Ellison and those of Morrison
- D. As being indebted to the tradition of resisting literary conventions that privilege written forms, such as novels, over sermons and other oral forms

ID: d6b84972

The following text is from Joseph Conrad's 1907 novel *The Secret Agent: A Simple Tale*. Mr. Verloc is navigating the London streets on his way to a meeting.

Before reaching Knightsbridge, Mr. Verloc took a turn to the left out of the busy main thoroughfare, uproarious with the traffic of swaying omnibuses and trotting vans, in the almost silent, swift flow of hansoms [horse-drawn carriages]. Under his hat, worn with a slight backward tilt, his hair had been carefully brushed into respectful sleekness; for his business was with an Embassy. And Mr. Verloc, steady like a rock—a soft kind of rock—marched now along a street which could with every propriety be described as private.

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

- A. It qualifies an earlier description of Mr. Verloc.
- B. It emphasizes an internal struggle Mr. Verloc experiences.
- C. It contrasts Mr. Verloc with his surroundings.
- D. It reveals a private opinion Mr. Verloc holds.

Text 1

Public policy researcher Anthony Fowler studied the history of elections in Australia, a country that requires citizens to vote. Fowler argues that requiring citizens to vote leads to a significant increase in voters who would otherwise not have the time or motivation to vote. Thus, election results in countries that require citizens to vote better reflect the preferences of the country as a whole.

Text 2

Governments in democratic countries function better when more people vote. However, forcing people to vote may have negative consequences. Shane P. Singh and Jason Roy studied what happens when a country requires its citizens to vote. They found that when people feel forced to vote, they tend to spend less time looking for information about their choices when voting. As a result, votes from these voters may not reflect their actual preferences.

Based on the texts, how would Singh and Roy (Text 2) most likely respond to the research discussed in Text 1?

- A. Only countries of a certain population size should implement mandatory voting.
- B. People who are forced to vote are likely to become politically engaged in other ways, such as volunteering or running for office.
- C. Requiring people to vote does not necessarily lead to election outcomes that better represent the preferences of the country as a whole.
- D. Countries that require voting must also make the process of voting easier for their citizens.

The 1967 release of Harold Cruse's book *The Crisis of the Negro Intellectual* isolated him from almost all other scholars and activists of the American Civil Rights Movement—though many of those thinkers disagreed with each other, he nonetheless found ways to disagree with them all. He thought that activists who believed that Black people such as himself should culturally assimilate were naïve. But he also sharply criticized Black nationalists such as Marcus Garvey who wanted to establish independent, self-contained Black economies and societies, even though Cruse himself identified as a Black nationalist.

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

- A. It describes a direction that Cruse felt the Civil Rights Movement ought to take.
- B. It indicates that Cruse's reputation as a persistent antagonist of other scholars is undeserved.
- C. It describes a controversy that Cruse's work caused within the Black nationalist movement.
- D. It helps explain Cruse's position with respect to the community of civil rights thinkers.

ID: 74ce57b4

Genetic studies have led researchers to suggest that turtles are most closely related to the group that includes modern crocodiles. But studies of fossils have suggested instead that turtles are most closely related to other groups, such as the one that contains modern snakes. However, many of the fossil studies have relied on incomplete data sets. For a 2022 investigation, biologist Tiago R. Simões and colleagues examined more than 1,000 reptile fossils collected worldwide. From this large data set, they found clear agreement with the results of the genetic studies.

Which choice best describes the function of the underlined sentence?

- A. It offers an overview of the tools scientists use to examine fossils.
- B. It describes a limitation of some studies about the origin of turtles.
- C. It summarizes previous research on the evolution of crocodiles.
- D. It criticizes a widely held belief about genetic studies of reptiles.

ID: 01785861

In most building demolitions, the building materials are destroyed and sent to landfills. City officials in Portland, Oregon, wanted to reduce this waste. The officials passed a law requiring demolition companies to deconstruct some buildings instead. Deconstruction involves carefully taking buildings apart piece by piece. Damage to the materials is avoided so that they can be reused in new constructions. A 2019 study found that 27 percent of materials from deconstructions in Portland were able to be reused. The remaining materials were processed for recycling instead of going to a landfill.

Which choice best states the main purpose of the text?

- A. To explain an effort made by the city of Portland to reduce demolition waste and some results of that effort
- B. To show that popular support for measures that reduce demolition waste has increased since 2019
- C. To argue that building deconstruction is not as effective as other measures at reducing demolition waste
- D. To discuss laws aimed to reduce demolition waste in Portland and compare them to similar laws in other cities

ID: 6550292c

Dance choreographer Jawole Willa Jo Zollar aims to give people the opportunity to be _____ her creative process. For example, live performances of her dance *HairStories*, which debuted in 2001, featured videos of people across the United States talking about their hair and audience members sharing pictures of their interesting hairstyles.

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

- A. nervous about
- B. completed by
- C. delayed by
- D. involved in

ID: **dbc af826**

Many films from the early 1900s have been lost. These losses include several films by the first wave of Black women filmmakers. We know about these lost movies only from small pieces of evidence. For example, an advertisement for Jennie Louise Toussaint Welcome's documentary *Doing Their Bit* still exists. There's a reference in a magazine to Tressie Souders's film *A Woman's Error*. And Maria P. Williams's *The Flames of Wrath* is mentioned in a letter and a newspaper article, and one image from the movie was discovered in the 1990s.

Which choice best describes the overall structure of the text?

- A. The text identifies a complex problem, then presents examples of unsuccessful attempts to solve that problem.
- B. The text summarizes a debate among researchers, then gives reasons for supporting one side in that debate.
- C. The text describes a general situation, then illustrates that situation with specific examples.
- D. The text discusses several notable individuals, then explains commonly overlooked differences between those individuals.

The following text is adapted from Herman Melville's 1857 novel *The Confidence-Man*. Humphry Davy was a prominent British chemist and inventor.

Years ago, a grave American savant, being in London, observed at an evening party there, a certain coxcombical fellow, as he thought, an absurd ribbon in his lapel, and full of smart [banter], whisking about to the admiration of as many as were disposed to admire. Great was the savant's disdain; but, chancing ere long to find himself in a corner with the jackanapes, got into conversation with him, when he was somewhat ill-prepared for the good sense of the jackanapes, but was altogether thrown aback, upon subsequently being [informed that he was] no less a personage than Sir Humphry Davy.

Which choice best states the main purpose of the text?

- A. It portrays the thoughts of a character who is embarrassed about his own behavior.
- B. It presents an account of a misunderstanding.
- C. It offers a short history of how a person came to be famous.
- D. It explains why one character dislikes another.

The following text is adapted from Charles Dickens's 1854 novel *Hard Times*. Coketown is a fictional town in England.

[Coketown] contained several large streets all very like one another, and many small streets still more like one another, inhabited by people equally like one another, who all went in and out at the same hours, with the same sound upon the same pavements, to do the same work, and to whom every day was the same as yesterday and tomorrow, and every year the counterpart of the last and the next.

Which choice best states the main purpose of the text?

- A. To emphasize the uniformity of both the town and the people who live there
- B. To explain the limited work opportunities available to the town's residents
- C. To reveal how the predictability of the town makes it easy for people lose track of time
- D. To argue that the simplicity of life in the town makes it a pleasant place to live

The following text is adapted from Etsu Inagaki Sugimoto's 1925 memoir *A Daughter of the Samurai*. As a young woman, Sugimoto moved from feudal Japan to the United States.

The standards of my own and my adopted country differed so widely in some ways, and my love for both lands was so sincere, that sometimes I had an odd feeling of standing upon a cloud in space, and gazing with measuring eyes upon two separate worlds. At first I was continually trying to explain, by Japanese standards, all the queer things that came every day before my surprised eyes; for no one seemed to know the origin or significance of even the most familiar customs, nor why they existed and were followed.

Which choice best describes the main purpose of the text?

- A. To convey the narrator's experience of observing and making sense of differences between two cultures she embraces
- B. To establish the narrator's hope of forming connections with new companions by sharing customs she learned as a child
- C. To reveal the narrator's recognition that she is hesitant to ask questions about certain aspects of a culture she is newly encountering
- D. To emphasize the narrator's wonder at discovering that the physical distance between two countries is greater than she had expected

Some studies have suggested that posture can influence cognition, but we should not overstate this phenomenon. A case in point: In a 2014 study, Megan O'Brien and Alaa Ahmed had subjects stand or sit while making risky simulated economic decisions. Standing is more physically unstable and cognitively demanding than sitting; accordingly, O'Brien and Ahmed hypothesized that standing subjects would display more risk aversion during the decision-making tasks than sitting subjects did, since they would want to avoid further feelings of discomfort and complicated risk evaluations. But O'Brien and Ahmed actually found no difference in the groups' performance.

Which choice best states the main purpose of the text?

- A. It argues that research findings about the effects of posture on cognition are often misunderstood, as in the case of O'Brien and Ahmed's study.
- B. It presents the study by O'Brien and Ahmed to critique the methods and results reported in previous studies of the effects of posture on cognition.
- C. It explains a significant problem in the emerging understanding of posture's effects on cognition and how O'Brien and Ahmed tried to solve that problem.
- D. It discusses the study by O'Brien and Ahmed to illustrate why caution is needed when making claims about the effects of posture on cognition.

ID: 52aa1317

Raymond Antrobus, an accomplished poet and writer of prose, recently released his debut spoken word poetry album, *The First Time I Wore Hearing Aids*, in collaboration with producer Ian Brennan. The album contains both autobiographical and reflective pieces combining Antrobus's spoken words with Brennan's fragmented audio elements and pieces of music to convey how people who are deaf may experience sound, both its presence and absence. Some critics suggest that the album questions the function of sound in the world, highlighting that the experience of sound is multifaceted.

Which choice best describes the overall structure of the text?

- A. It introduces a collaborative spoken word poetry project, details the approach taken to produce the work, and then provides an example of critique the album received upon release.
- B. It mentions a collection of spoken word poems, distinguishes one poem as being an exemplar on the album, and then offers a summary of the subject matter of the whole collection.
- C. It summarizes the efforts to produce a collection of spoken word poems, presents biographies of two people who worked on the album, and speculates about the meaning behind the poetry.
- D. It connects two artists to the same spoken word poetry project, explains the extent of their collaboration on each poem, and then provides an overview of the technique used to produce the work.

ID: 826c2a7e

Close analysis of the painting *Girl with a Flute*, long attributed to the seventeenth-century Dutch painter Johannes Vermeer, has revealed subtle deviations from the artist's signature techniques. These variations suggest that the work may be that of a student under Vermeer's tutelage—potentially _____ our understanding of Vermeer as a solitary artist.

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

- A. negating
- B. prefiguring
- C. entrenching
- D. substantiating

Text 1

The live music festival business is growing in event size and genre variety. With so many consumer options, organizers are finding ways to cement festival attendance as a special experience worth sharing. This phenomenon is linked to the growing “experiential economy,” where many find it gratifying to purchase lived experiences. To ensure a profitable event, venues need to consider the overall consumer experience, not just the band lineup.

Text 2

Music festival appearances are becoming a more important part of musicians’ careers. One factor in this shift is the rising use of streaming services that allow access to huge numbers of songs for a monthly fee, subsequently reducing sales of full-length albums. With this shift in consumer behavior, musicians are increasingly dependent on revenue from live performances.

Based on the texts, both authors would most likely agree with which statement?

- A. Consumers are more interested in paying subscription fees to stream music than in attending music festivals in person.
- B. Consumers’ growing interest in purchasing experiences is mostly confined to the music industry.
- C. Changing consumer behaviors are leading to changes in music-related businesses.
- D. The rising consumer demand for live music festivals also generates higher demand for music streaming platforms.

ID: b99e3267

A journalist and well-respected art critic of nineteenth-century Britain, Lady Elizabeth Rigby Eastlake did not hesitate to publish reviews that went against popular opinion. One of her most divisive works was an essay questioning the idea of photography as an emerging medium for fine art: in the essay, Eastlake _____ that the value of photographs was informational rather than creative.

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

- A. exposed
- B. asserted
- C. discovered
- D. doubted

Text 1

On April 26th, 1777, Sybil Ludington rode 40 miles by horse through Putnam County, New York, to gather up local militia. British forces were burning nearby Danbury, Connecticut, and Ludington wanted to rally rebel troops to meet them. Although she was only 16 years old at the time, her brave feat made Ludington one of the heroes of the American Revolution. Since then, Ludington has been widely celebrated, inspiring postage stamps, statues, and even children's TV series.

Text 2

Historian Paula D. Hunt researched the life and legacy of Sybil Ludington but found no evidence for her famous ride. Although many articles and books have been written about Ludington, Hunt believes writers may have been inventing details about Ludington as they retold her story. Ludington is revered by Americans today, but there simply isn't a strong historical record of her heroic ride.

Based on the texts, both authors would most likely agree with which statement?

- A. Sybil Ludington was crucial to the outcome of the Revolutionary War.
- B. Historians have confirmed which route Sybil Ludington took.
- C. Sybil Ludington was likely not a real person.
- D. Many people have come to admire the story of Sybil Ludington's ride.

Text 1

Africa's Sahara region—once a lush ecosystem—began to dry out about 8,000 years ago. A change in Earth's orbit that affected climate has been posited as a cause of desertification, but archaeologist David Wright also attributes the shift to Neolithic peoples. He cites their adoption of pastoralism as a factor in the region drying out: the pastoralists' livestock depleted vegetation, prompting the events that created the Sahara Desert.

Text 2

Research by Chris Brierley et al. challenges the idea that Neolithic peoples contributed to the Sahara's desertification. Using a climate-vegetation model, the team concluded that the end of the region's humid period occurred 500 years earlier than previously assumed. The timing suggests that Neolithic peoples didn't exacerbate aridity in the region but, in fact, may have helped delay environmental changes with practices (e.g., selective grazing) that preserved vegetation.

Based on the texts, how would Chris Brierley (Text 2) most likely respond to the discussion in Text 1?

- A. By pointing out that given the revised timeline for the end of the Sahara's humid period, the Neolithic peoples' mode of subsistence likely didn't cause the region's desertification
- B. By claiming that pastoralism was only one of many behaviors the Neolithic peoples took part in that may have contributed to the Sahara's changing climate
- C. By insisting that pastoralism can have both beneficial and deleterious effects on a region's vegetation and climate
- D. By asserting that more research needs to be conducted into factors that likely contributed to the desertification of the Sahara region

The following text is adapted from Oscar Wilde's 1897 nonfiction work *De Profundis*.

People whose desire is solely for self-realisation never know where they are going. They can't know. In one sense of the word it is of course necessary to know oneself: that is the first achievement of knowledge. But to recognise that the soul of a man is unknowable, is the ultimate achievement of wisdom. The final mystery is oneself. When one has weighed the sun in the balance, and measured the steps of the moon, and mapped out the seven heavens star by star, there still remains oneself. Who can calculate the orbit of his own soul?

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

- A. It reinforces the text's skepticism about the possibility of truly achieving self-knowledge.
- B. It speculates that some readers will share the doubts expressed in the text about the value of self-knowledge.
- C. It cautions readers that the text's directions for how to achieve self-knowledge are hard to follow.
- D. It concedes that the definition of self-knowledge advanced in the text is unpopular.

ID: f3a51fa6

Horizontal gene transfer occurs when an organism of one species acquires genetic material from an organism of another species through nonreproductive means. The genetic material can then be transferred “vertically” in the second species—that is, through reproductive inheritance. Scientist Atma Ivancevic and her team have hypothesized infection by invertebrate parasites as a mechanism of horizontal gene transfer between vertebrate species: while feeding, a parasite could acquire a gene from one host, then relocate to a host from a different vertebrate species and transfer the gene to it in turn.

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

- A. It explains why parasites are less susceptible to horizontal gene transfer than their hosts are.
- B. It clarifies why some genes are more likely to be transferred horizontally than others are.
- C. It contrasts how horizontal gene transfer occurs among vertebrates with how it occurs among invertebrates.
- D. It describes a means by which horizontal gene transfer might occur among vertebrates.

Text 1

In a study of insect behavior, Samadi Galpayage and colleagues presented bumblebees with small wooden balls and observed many of the bees clinging to, rolling, and dragging the objects. The researchers provided no external rewards (such as food) to encourage these interactions. The bees simply appeared to be playing –and for no other reason than because they were having fun.

Text 2

Insects do not have cortices or other brain areas associated with emotions in humans. Still, Galpayage and her team have shown that bumblebees may engage in play, possibly experiencing some kind of positive emotional state. Other studies have suggested that bees experience negative emotional states (for example, stress), but as Galpayage and her team have acknowledged, emotions in insects, if they do indeed exist, are likely very rudimentary.

Based on the texts, how would the author of Text 2 most likely respond to the underlined portion of Text 1?

- A. By objecting that the bees were actually experiencing a negative feeling akin to stress rather than a positive feeling
- B. By arguing that some insects other than bumblebees may be capable of experiencing complex emotional states
- C. By pointing out that even humans sometimes struggle to have fun while engaging in play
- D. By noting that if the bees were truly playing, any positive feelings they may have experienced were probably quite basic

Text 1

Many studies in psychology have shown that people seek out information even when they know in advance that they have no immediate use for it and that they won't directly benefit from it. Such findings support the consensus view among researchers of curiosity: namely, that curiosity is not instrumental but instead represents a drive to acquire information for its own sake.

Text 2

While acknowledging that acquiring information is a powerful motivator, Rachit Dubey and colleagues ran an experiment to test whether emphasizing the usefulness of scientific information could increase curiosity about it. They found that when research involving rats and fruit flies was presented as having medical applications for humans, participants expressed greater interest in learning about it than when the research was not presented as useful.

Based on the texts, how would Dubey and colleagues (Text 2) most likely respond to the consensus view discussed in Text 1?

- A. By suggesting that curiosity may not be exclusively motivated by the desire to merely acquire information
- B. By conceding that people may seek out information that serves no immediate purpose only because they think they can use it later
- C. By pointing out that it is challenging to determine when information-seeking serves no goal beyond acquiring information
- D. By disputing the idea that curiosity can help explain apparently purposeless information-seeking behaviors

Text 1

Despite its beautiful prose, *The Guns of August*, Barbara Tuchman's 1962 analysis of the start of World War I, has certain weaknesses as a work of history. It fails to address events in Eastern Europe just before the outbreak of hostilities, thereby giving the impression that Germany was the war's principal instigator. Had Tuchman consulted secondary works available to her by scholars such as Luigi Albertini, she would not have neglected the influence of events in Eastern Europe on Germany's actions.

Text 2

Barbara Tuchman's *The Guns of August* is an engrossing if dated introduction to World War I. Tuchman's analysis of primary documents is laudable, but her main thesis that European powers committed themselves to a catastrophic outcome by refusing to deviate from military plans developed prior to the conflict is implausibly reductive.

Which choice best describes a difference in how the authors of Text 1 and Text 2 view Barbara Tuchman's *The Guns of August*?

- A. The author of Text 1 argues that Tuchman should have relied more on the work of other historians, while the author of Text 2 implies that Tuchman's most interesting claims result from her original research.
- B. The author of Text 1 believes that the scope of Tuchman's research led her to an incorrect interpretation, while the author of Text 2 believes that Tuchman's central argument is overly simplistic.
- C. The author of Text 1 asserts that the writing style of *The Guns of August* makes it worthwhile to read despite any perceived deficiency in Tuchman's research, while the author of Text 2 focuses exclusively on the weakness of Tuchman's interpretation of events.
- D. The author of Text 1 claims that Tuchman would agree that World War I was largely due to events in Eastern Europe, while the author of Text 2 maintains that Tuchman would say that Eastern European leaders were not committed to military plans in the same way that other leaders were.

ID: 5405400f

The following text is from Herman Melville's 1854 novel *The Lightning-rod Man*.

The stranger still stood in the exact middle of the cottage, where he had first planted himself. His singularity impelled a closer scrutiny. A lean, gloomy figure. Hair dark and lank, mattedly streaked over his brow. His sunken pitfalls of eyes were ringed by indigo halos, and played with an innocuous sort of lightning: the gleam without the bolt. The whole man was dripping. He stood in a puddle on the bare oak floor: his strange walking-stick vertically resting at his side.

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

- A. It elaborates on the previous sentence's description of the character.
- B. It introduces the setting that is described in the sentences that follow.
- C. It establishes a contrast with the description in the previous sentence.
- D. It sets up the character description presented in the sentences that follow.

Text 1

Although food writing is one of the most widely read genres in the United States, literary scholars have long neglected it. And within this genre, cookbooks attract the least scholarly attention of all, regardless of how well written they may be. This is especially true of works dedicated to regional US cuisines, whose complexity and historical significance are often overlooked.

Text 2

With her 1976 cookbook *The Taste of Country Cooking*, Edna Lewis popularized the refined Southern cooking she had grown up with in Freetown, an all-Black community in Virginia. She also set a new standard for cookbook writing: the recipes and memoir passages interspersing them are written in prose more elegant than that of most novels. Yet despite its inarguable value as a piece of writing, Lewis's masterpiece has received almost no attention from literary scholars.

Based on the two texts, how would the author of Text 1 most likely regard the situation presented in the underlined sentence in Text 2?

- A. As typical, because scholars are dismissive of literary works that achieve popularity with the general public
- B. As unsurprising, because scholars tend to overlook the literary value of food writing in general and of regional cookbooks in particular
- C. As justifiable, because Lewis incorporated memoir into *The Taste of Country Cooking*, thus undermining its status as a cookbook
- D. As inevitable, because *The Taste of Country Cooking* was marketed to readers of food writing and not to readers of other genres

ID: 0b3af2d3

According to statistician Nassim Nicholas Taleb, the best way to predict the amount of time a nonperishable entity (such as a building or a technology) will continue to exist is to examine how long it has survived so far. In this view, an item's age is the strongest _____ how much longer it will last.

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

- A. uncertainty about
- B. indicator of
- C. motivation for
- D. criticism of

Text 1

The fossil record suggests that mammoths went extinct around 11 thousand years (kyr) ago. In a 2021 study of environmental DNA (eDNA)—genetic material shed into the environment by organisms—in the Arctic, Yucheng Wang and colleagues found mammoth eDNA in sedimentary layers formed millennia later, around 4 kyr ago. To account for this discrepancy, Joshua H. Miller and Carl Simpson proposed that arctic temperatures could preserve a mammoth carcass on the surface, allowing it to leach DNA into the environment, for several thousand years.

Text 2

Wang and colleagues concede that eDNA contains DNA from both living organisms and carcasses, but for DNA to leach from remains over several millennia requires that the remains be perpetually on the surface. Scavengers and weathering in the Arctic, however, are likely to break down surface remains well before a thousand years have passed.

Which choice best describes how Text 1 and Text 2 relate to each other?

- A. Text 1 discusses two approaches to studying mammoth extinction without advocating for either, whereas Text 2 advocates for one approach over the other.
- B. Text 1 presents findings by Wang and colleagues and gives another research team's attempt to explain those findings, whereas Text 2 provides additional detail that calls that explanation into question.
- C. Text 1 describes Wang and colleagues' study and a critique of their methodology, whereas Text 2 offers additional details showing that methodology to be sound.
- D. Text 1 argues that new research has undermined the standard view of when mammoths went extinct, whereas Text 2 suggests a way to reconcile the standard view with that new research.

Text 1

What factors influence the abundance of species in a given ecological community? Some theorists have argued that historical diversity is a major driver of how diverse an ecological community eventually becomes: differences in community diversity across otherwise similar habitats, in this view, are strongly affected by the number of species living in those habitats at earlier times.

Text 2

In 2010, a group of researchers including biologist Carla Cáceres created artificial pools in a New York forest. They stocked some pools with a diverse mix of zooplankton species and others with a single zooplankton species and allowed the pool communities to develop naturally thereafter. Over the course of four years, Cáceres and colleagues periodically measured the species diversity of the pools, finding—contrary to their expectations—that by the end of the study there was little to no difference in the pools' species diversity.

Based on the texts, how would Cáceres and colleagues (Text 2) most likely describe the view of the theorists presented in Text 1?

- A. It is largely correct, but it requires a minor refinement in light of the research team's results.
- B. It is not compelling as a theory regardless of any experimental data collected by the research team.
- C. It may seem plausible, but it is not supported by the research team's findings.
- D. It probably holds true only in conditions like those in the research team's study.

Mathematician Claude Shannon is widely regarded as a foundational figure in information theory. His most important paper, "A Mathematical Theory of Communication," published in 1948 when he was employed at Bell Labs, utilized a concept called a "binary digit" (shortened to "bit") to measure the amount of information in any signal and determine the fastest rate at which information could be transmitted while still being reliably decipherable. Robert Gallagher, one of Shannon's colleagues, said that the bit was "[Shannon's] discovery, and from it the whole communications revolution has sprung."

Which choice best describes the overall structure of the text?

- A. It presents a theoretical concept, illustrates how the name of the concept has changed, and shows how the name has entered common usage.
- B. It introduces a respected researcher, describes an aspect of his work, and suggests why the work is historically significant.
- C. It names the company where an important mathematician worked, details the mathematician's career at the company, and provides an example of the recognition he received there.
- D. It mentions a paper, offers a summary of the paper's findings, and presents a researcher's commentary on the paper.

ID: cd742fda

Michelene Pesantubbee, a historian and citizen of the Choctaw Nation, has identified a dilemma inherent to research on the status of women in her tribe during the 1600s and 1700s: the primary sources from that era, travel narratives and other accounts by male European colonizers, underestimate the degree of power conferred on Choctaw women by their traditional roles in political, civic, and ceremonial life. Pesantubbee argues that the Choctaw oral tradition and findings from archaeological sites in the tribe's homeland supplement the written record by providing crucial insights into those roles.

Which choice best describes the overall structure of the text?

- A. It details the shortcomings of certain historical sources, then argues that research should avoid those sources altogether.
- B. It describes a problem that arises in research on a particular topic, then sketches a historian's approach to addressing that problem.
- C. It lists the advantages of a particular research method, then acknowledges a historian's criticism of that method.
- D. It characterizes a particular topic as especially challenging to research, then suggests a related topic for historians to pursue instead.

ID: f242d54d

Many archaeologists assume that large-scale engineering projects in ancient societies required an elite class to plan and direct the necessary labor. However, recent discoveries, such as the excavation of an ancient canal near the Gulf Coast of Alabama, have complicated this picture. Using radiocarbon dating, a team of researchers concluded that the 1.39-kilometer-long canal was most likely constructed between 576 and 650 CE by an Indigenous society that was relatively free of social classes.

Which choice best describes the overall structure of the text?

- A. It describes a common view among archaeologists, then discusses a recent finding that challenges that view.
- B. It outlines a method used in some archaeological fieldwork, then explains why an alternative method is superior to it.
- C. It presents contradictory conclusions drawn by archaeologists, then evaluates a study that has apparently resolved that contradiction.
- D. It identifies a gap in scientific research, then presents a strategy used by some archaeologists to remedy that gap.

Rejecting the premise that the literary magazine *Ebony and Topaz* (1927) should present a unified vision of Black American identity, editor Charles S. Johnson fostered his contributors' diverse perspectives by promoting their authorial autonomy. Johnson's self-effacement diverged from the editorial stances of W.E.B. Du Bois and Alain Locke, whose decisions for their publications were more _____.

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

- A. proficient
- B. dogmatic
- C. ambiguous
- D. unpretentious

Text 1

Because literacy in Nahuatl script, the writing system of the Aztec Empire, was lost after Spain invaded central Mexico in the 1500s, it is unclear exactly how meaning was encoded in the script's symbols. Although many scholars had assumed that the symbols signified entire words, linguist Alfonso Lacadena theorized in 2008 that they signified units of language smaller than words: individual syllables.

Text 2

The growing consensus among scholars of Nahuatl script is that many of its symbols could signify either words or syllables, depending on syntax and content at any given site within a text. For example, the symbol signifying the word *huipil* (blouse) in some contexts could signify the syllable “pil” in others, as in the place name “Chipiltepec.” Thus, for the Aztecs, reading required a determination of how such symbols functioned each time they appeared in a text.

Based on the texts, how would the author of Text 2 most likely characterize Lacadena’s theory, as described in Text 1?

- A. By praising the theory for recognizing that the script’s symbols could represent entire words
- B. By arguing that the theory is overly influenced by the work of earlier scholars
- C. By approving of the theory’s emphasis on how the script changed over time
- D. By cautioning that the theory overlooks certain important aspects of how the script functioned

The following text is from Booth Tarkington's 1921 novel *Alice Adams*.

Mrs. Adams had always been fond of vases, she said, and every year her husband's Christmas present to her was a vase of one sort or another—whatever the clerk showed him, marked at about twelve or fourteen dollars.

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

- A. Staged
- B. Priced
- C. Stained
- D. Watched

Text 1

American sculptor Edmonia Lewis is best known for her sculptures that represent figures from history and mythology, such as *The Death of Cleopatra* and *Hagar*. Although Lewis sculpted other subjects, her career as a sculptor is best represented by the works in which she depicted these historical and mythical themes.

Text 2

Art historians have typically ignored the many portrait busts Edmonia Lewis created. Lewis likely carved these busts (sculptures of a person's head) frequently throughout her long career. She is known for her sculptures that represent historical figures, but Lewis likely supported herself financially by carving portrait busts for acquaintances who paid her to represent their features. Thus, Lewis's portrait busts are a central aspect of her career as a sculptor.

Based on the texts, both authors would most likely agree with which statement?

- A. Lewis's portrait busts have overshadowed her other work.
- B. *The Death of Cleopatra* is Lewis's most famous piece.
- C. Sculpting representations of historical figures was a short-lived trend.
- D. Lewis's works are varied in the subjects they depict.

Text 1

In 1916, H. Dugdale Sykes disputed claims that *The Two Noble Kinsmen* was coauthored by William Shakespeare and John Fletcher. Sykes felt Fletcher's contributions to the play were obvious—Fletcher had a distinct style in his other plays, so much so that lines with that style were considered sufficient evidence of Fletcher's authorship. But for the lines not deemed to be by Fletcher, Sykes felt that their depiction of women indicated that their author was not Shakespeare but Philip Massinger.

Text 2

Scholars have accepted *The Two Noble Kinsmen* as coauthored by Shakespeare since the 1970s: it appears in all major one-volume editions of Shakespeare's complete works. Though scholars disagree about who wrote what exactly, it is generally held that on the basis of style, Shakespeare wrote all of the first act and most of the last, while John Fletcher authored most of the three middle acts.

Based on the texts, both Sykes in Text 1 and the scholars in Text 2 would most likely agree with which statement?

- A. John Fletcher's writing has a unique, readily identifiable style.
- B. The women characters in John Fletcher's plays are similar to the women characters in Philip Massinger's plays.
- C. *The Two Noble Kinsmen* belongs in one-volume compilations of Shakespeare's complete plays.
- D. Philip Massinger's style in the first and last acts of *The Two Noble Kinsmen* is an homage to Shakespeare's style.

ID: ec66fe4d

To develop a method for measuring snow depth with laser beams, NASA physicist Yongxiang Hu relied on ____; identifying broad similarities between two seemingly different phenomena, Hu used information about how ants move inside colonies to calculate how the particles of light that make up laser beams travel through snow.

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

- A. a collaboration
- B. an accessory
- C. a contradiction
- D. an analogy

Text 1

A team led by Bernardo Strassburg has found that rewilding farmland (returning the land to its natural state) could help preserve biodiversity and offset carbon emissions. The amount of farmland that would need to be restored, they found, is remarkably low. Rewilding a mere 15% of the world's current farmland would prevent 60% of expected species extinctions and help absorb nearly 299 gigatons of carbon dioxide—a clear win in the fight against the biodiversity and climate crises.

Text 2

While Strassburg's team's findings certainly offer encouraging insight into the potential benefits of rewilding, it's important to consider potential effects on global food supplies. The researchers suggest that to compensate for the loss of food-producing land, remaining farmland would need to produce even more food. Thus, policies focused on rewilding farmland must also address strategies for higher-yield farming.

Which choice best describes a difference in how the author of Text 1 and the author of Text 2 view Strassburg's team's study?

- A. The author of Text 2 approaches the study's findings with some caution, whereas the author of Text 1 is optimistic about the reported potential environmental benefits.
- B. The author of Text 2 claims that the percentage of farmland identified by Strassburg's team is too low for rewilding to achieve meaningful results, whereas the author of Text 1 thinks the percentage is sufficient.
- C. The author of Text 2 believes that the results described by Strassburg's team are achievable in the near future, whereas the author of Text 1 argues that they likely aren't.
- D. The author of Text 2 focuses on rewilding's effect on carbon emissions, whereas the author of Text 1 focuses on its effect on biodiversity.

ID: fb052096

Part of the Atacama Desert in Peru has surprisingly rich plant life despite receiving almost no rainfall. Moisture from winter fog sustains plants once they're growing, but the soil's tough crust makes it hard for seeds to germinate in the first place. Local birds that dig nests in the ground seem to be of help: they churn the soil, exposing buried seeds to moisture and nutrients. Indeed, in 2016 Cristina Rengifo Faiffer found that mounds of soil dug up by birds were far more fertile and supported more seedlings than soil in undisturbed areas.

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

- A. It elaborates on the idea that the top layer of Atacama Desert soil forms a tough crust.
- B. It describes the process by which seeds are deposited into Atacama Desert soil.
- C. It identifies the reason particular bird species dig nests in Atacama Desert soil.
- D. It explains how certain birds promote seed germination in Atacama Desert soil.

ID: 9115eb54

Composer Florence Price won first place for her score Symphony in E Minor at the 1932 Wanamaker Foundation Awards. The piece was performed the following year by the Chicago Symphony Orchestra, a significant recognition of its quality. Price continued to compose many musical pieces throughout her career, blending traditional Black spirituals with classical European Romantic musical traditions. In recent years, Price's concertos and symphonies have been performed and recorded by several major orchestras, further preserving her work for others to enjoy.

Which choice best states the main purpose of the text?

- A. To provide examples of Price's importance as a composer
- B. To argue that more major orchestras should perform Price's compositions
- C. To describe the musical styles that inspired many of Price's symphonies
- D. To compare Price's scores with those of classical European composers

Text 1

Philosopher G.E. Moore's most influential work entails the concept of common sense. He asserts that there are certain beliefs that all people, including philosophers, know instinctively to be true, whether or not they profess otherwise: among them, that they have bodies, or that they exist in a world with other objects that have three dimensions. Moore's careful work on common sense may seem obvious but was in fact groundbreaking.

Text 2

External world skepticism is a philosophical stance supposing that we cannot be sure of the existence of anything outside our own minds. During a lecture, G.E. Moore once offered a proof refuting this stance by holding out his hands and saying, "Here is one hand, and here is another." Many philosophers reflexively reject this proof (Annalisa Coliva called it "an obviously annoying failure") but have found it a challenge to articulate exactly why the proof fails.

Based on the texts, how would the author of Text 1 most likely respond to proponents of the philosophical stance outlined in Text 2?

- A. By agreeing with those proponents that Moore's treatment of positions that contradict his own is fundamentally unserious
- B. By suggesting that an instinctive distaste for Moore's position is preventing external world skeptics from constructing a sufficiently rigorous refutation of Moore
- C. By arguing that if it is valid to assert that some facts are true based on instinct, it is also valid to assert that some proofs are inadequate based on instinct
- D. By pointing out that Moore would assert that external world skepticism is at odds with other beliefs those proponents must unavoidably hold

ID: f7455dfd

Some foraging models predict that the distance bees travel when foraging will decline as floral density increases, but biologists Shalene Jha and Claire Kremen showed that bees' behavior is inconsistent with this prediction if flowers in dense patches are ____: bees will forage beyond patches of low species richness to acquire multiple resource types.

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

- A. depleted
- B. homogeneous
- C. immature
- D. dispersed

Text 1

Most scientists agree that the moon was likely formed after a collision between Earth and a large planet named Theia. This collision likely created a huge debris field, made up of material from both Earth and Theia. Based on models of this event, scientists believe that the moon was formed from this debris over the course of thousands of years.

Text 2

Researchers from NASA's Ames Research Center used a computer to model how the moon could have formed. Although simulations of the moon's formation have been done in the past, the team from NASA ran simulations that were much more detailed. They found that the formation of the moon was likely not a slow process that took many years. Instead, it's probable that the moon's formation happened immediately after impact, taking just a few hours.

Which choice best describes a difference in how the author of Text 1 and the author of Text 2 view the evidence for the formation of the moon?

- A. The author of Text 1 argues that the formation of the moon occurred much earlier than the author of Text 2 argues.
- B. The author of Text 1 suggests there is more evidence confirming the existence of Theia than the author of Text 2 suggests.
- C. The author of Text 1 claims that the moon's surface is more similar to Earth's surface than the author of Text 2 claims.
- D. The author of Text 1 believes that the moon formed more slowly than the author of Text 2 believes.

ID: 0b681b18

As a young photographer in the 1950s, William Klein _____ the conventions of photography by creating images that were high contrast and included blurred and distorted elements—features generally seen as flaws. So unorthodox was Klein’s work that he had difficulty finding a publisher for his now-iconic 1956 photo book *Life is Good & Good for You in New York*.

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

- A. reviewed
- B. defied
- C. respected
- D. prevented

ID: 45f3c80a

Historians Tiya Miles and Roy E. Finkenbine have both documented the assistance Indigenous peoples gave to Black freedom seekers leaving the South before the US Civil War. Much of the historical evidence of this help comes from Indigenous oral traditions and from autobiographies written by the freedom seekers. One such narrative is Jermain Loguen's autobiography, which tells about how Neshnabé (Potawatomi) villagers offered him food, lodging, and directions during his 1835 journey from Tennessee to Canada.

Which choice best describes the function of the underlined sentence?

- A. It provides an example of an autobiography that describes help given by an Indigenous people to a Black freedom seeker.
- B. It shows why Loguen decided to write in great detail about his experiences traveling from Tennessee to Canada in his autobiography.
- C. It argues that autobiographies are particularly important sources of information about geography in the United States before the Civil War.
- D. It suggests that most historians believe that Neshnabé villagers were more successful in assisting freedom seekers than other people were.

The following text is from Holly Goldberg Sloan's 2017 novel *Short*.

More than two years ago my parents bought a piano from some people who were moving to Utah. Mom and Dad gave it to my brothers and me for Christmas. I had to act really happy because it was such a big present, but I pretty much hated the thing from the second it was carried into the hallway upstairs, which is right next to my bedroom. The piano glared at me. It was like a songbird in a cage. It wanted to be set free.

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Which choice best states the main purpose of the text?

- A. It explains why the narrator always wanted a piano close to her bedroom.
- B. It establishes how the narrator feels about the piano.
- C. It suggests that the narrator's brothers are talented piano players.
- D. It describes the event that led the narrator's parents to buy a piano.

Text 1

Today the starchy root cassava is found in many dishes across West Africa, but its rise to popularity was slow. Portuguese traders brought cassava from Brazil to the West African coast in the 1500s. But at this time, people living in the capitals further inland had little contact with coastal communities. Thus, cassava remained relatively unknown to most of the region's inhabitants until the 1800s.

Text 2

Cassava's slow adoption into the diet of West Africans is mainly due to the nature of the crop itself. If not cooked properly, cassava can be toxic. Knowledge of how to properly prepare cassava needed to spread before the food could grow in popularity. The arrival of formerly enslaved people from Brazil in the 1800s, who brought their knowledge of cassava and its preparation with them, thus directly fueled the spread of this crop.

Based on the texts, the author of Text 1 and the author of Text 2 would most likely agree with which statement?

- A. Cassava did not become a significant crop in West Africa until long after it was first introduced.
- B. Several of the most commonly grown crops in West Africa are originally from Brazil.
- C. The climate of the West African coast in the 1500s prevented cassava's spread in the region.
- D. The most commonly used methods to cook cassava today date to the 1500s.

Text 1

Literary scholars have struggled with the vastness of Nigerian writer Wole Soyinka's collective works of drama (spanning over 20 plays in total). It is best, however, to understand Soyinka's body of work as a dramatist chronologically. Soyinka's progression as a playwright can be considered to fall into three periods, with each one representing a particular thematic and stylistic cohesion: the 1960s, the two decades between 1970 and 1990, and lastly, from roughly 1990 onwards.

Text 2

It is tempting to impose a linear sense of order on the expanse of Wole Soyinka's body of work as a dramatist. However, critics who have considered Soyinka's plays to fit neatly into three phases overlook potential commonalities in Soyinka's work that span across these phases. Additionally, this view may discount significant differences in the styles and content of plays written around the same time.

Which choice best describes a difference in how the author of Text 1 and the author of Text 2 view the study of Soyinka's works of drama?

- A. While the author of Text 1 believes that thinking about Soyinka's works of theater in phases is useful, the author of Text 2 views such an approach as limiting.
- B. Although the author of Text 1 claims that Soyinka's style as a dramatist has evolved over time, the author of Text 2 argues that Soyinka's style has remained consistent throughout his career.
- C. The author of Text 1 considers Soyinka's plays to showcase his strongest writing, whereas the author of Text 2 believes that Soyinka's poetry is where he is most skilled.
- D. The author of Text 1 argues that Soyinka's early plays were his most politically charged, whereas the author of Text 2 claims that Soyinka's most recent plays are the most politicized.

ID: b0e12b3a

The work of molecular biophysicist Enrique M. De La Cruz is known for _____ traditional boundaries between academic disciplines. The university laboratory that De La Cruz runs includes engineers, biologists, chemists, and physicists, and the research the lab produces makes use of insights and techniques from all those fields.

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

- A. epitomizing
- B. transcending
- C. anticipating
- D. reinforcing

ID: d58155c0

Scientists previously thought that all electric eels belong to a single species, but a team of researchers led by zoologist C. David de Santana proved this idea wrong by _____ that there are in fact three distinct species of electric eels.

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

- A. pretending
- B. complaining
- C. requiring
- D. demonstrating

Text 1

In 2021, a team led by Amir Siraj hypothesized that the Chicxulub impactor—the object that struck the Yucatán Peninsula sixty-six million years ago, precipitating the mass extinction of the dinosaurs—was likely a member of the class of long-period comets. As evidence, Siraj cited the carbonaceous chondritic composition of samples from the Chicxulub impact crater as well as of samples obtained from long-period comet Wild 2 in 2006.

Text 2

Although long-period comets contain carbonaceous chondrites, asteroids are similarly rich in these materials. Furthermore, some asteroids are rich in iridium, as Natalia Artemieva points out, whereas long-period comets are not. Given the prevalence of iridium at the crater and, more broadly, in geological layers deposited worldwide following the impact, Artemieva argues that an asteroid is a more plausible candidate for the Chicxulub impactor.

Based on the texts, how would Artemieva likely respond to Siraj's hypothesis, as presented in Text 1?

- A. By insisting that it overestimates how representative Wild 2 is of long-period comets as a class
- B. By arguing that it does not account for the amount of iridium found in geological layers dating to the Chicxulub impact
- C. By praising it for connecting the composition of Chicxulub crater samples to the composition of certain asteroids
- D. By concurring that carbonaceous chondrites are prevalent in soil samples from sites distant from the Chicxulub crater

ID: 97c347fb

Charles “Teenie” Harris was a photographer for the *Pittsburgh Courier* from 1936 to 1975. During his career he took over 70,000 photographs documenting everyday life in Pittsburgh’s Black communities. The Carnegie Museum of Art maintains thousands of his photographs, carefully _____ them so that audiences can continue to view them well into the future.

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

- A. replacing
- B. inventing
- C. preserving
- D. counting

ID: 4e564c4f

With its clichéd imagery of suburban lawns and power lines, John Ashbery's 2004 poem "Ignorance of the Law Is No Excuse" may seem barren terrain for critical analysis. _____ cultural critic Lauren Berlant finds fertile ground in just its first two stanzas, devoting most of a book chapter to deciphering the "weight of the default space" Ashbery creates in this poem.

Which choice completes the text with the most logical transition?

- A. Likewise,
- B. Nonetheless,
- C. In turn,
- D. That is,

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

- In 2018 researchers Adwait Deshpande, Shreejata Gupta, and Anindya Sinha were observing wild macaques in India's Bandipur National Park.
- They saw macaques calling out to and gesturing at humans who were eating or carrying food.
- They designed a study to find out if the macaques were intentionally communicating to try to persuade the humans to share their food.
- In the study trials, macaques frequently called out to and gestured at humans holding food.
- In the study trials, macaques called out to and gestured at empty-handed humans less frequently.

The student wants to present the study's results. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A. Macaques in the study called out to and gestured more frequently at humans holding food than at empty-handed humans.
- B. In 2018, researchers who had observed macaques in India's Bandipur National Park calling out to and gesturing at humans designed a study.
- C. The researchers hoped to find out if the macaques were intentionally communicating to try to persuade humans to share their food.
- D. The researchers studied how macaques behaved around both humans holding food and empty-handed humans.

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

- Muslins are woven cotton fabrics with a variety of uses.
- Dhaka muslin is a handmade fabric produced in Dhaka, Bangladesh.
- It has an extremely fine weave and is primarily used to make luxury clothing.
- Sheetin muslin is a machine-made fabric produced in factories.
- It has a coarse weave and is primarily used to upholster furniture and create backdrops for theater sets.

The student wants to emphasize a difference between the two muslins. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A. Dhaka muslin is a handmade fabric with an extremely fine weave, while sheeting muslin is machine made with a coarse weave.
- B. Dhaka muslin and sheeting muslin are two different types of woven cotton fabrics.
- C. Muslins can be used in a variety of ways, from making luxury clothing to upholstering furniture and creating backdrops for theater sets.
- D. Sheetin muslin is machine made, has a coarse weave, and is used for furniture and theater sets.

ID: 10af0d71

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

- A marathon is a long-distance running race that is 26.2 miles long.
- An ultramarathon is a long-distance running race of more than 26.2 miles.
- The Kepler Challenge is a one-day, 37.3-mile ultramarathon in New Zealand.
- The Spreelauf is a six-day, 261-mile ultramarathon in Germany.

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

- A. Examples of ultramarathons include the 37.3-mile Kepler Challenge in New Zealand and the 261-mile Spreelauf in Germany.
- B. A marathon is 26.2 miles long, but the Spreelauf ultramarathon, at 261 miles, is far longer.
- C. Ultramarathons range widely in length, from a few dozen miles to a few hundred.
- D. While the Kepler Challenge is a one-day ultramarathon, the Spreelauf is a six-day ultramarathon.

ID: d539eaf3

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

- In 2013, paleontology professor Hesham Sallam and his students from Mansoura University in Egypt made a discovery.
- The team found a partial dinosaur skeleton at a site in Egypt's Dakhla Oasis.
- The skeleton belonged to a dinosaur species that lived approximately 80 million years ago.
- The new species was named *Mansourasaurus* to recognize the team that discovered it.

The student wants to explain the origin of the species' name. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A. *Mansourasaurus*, a new species discovered in Egypt in 2013, lived approximately 80 million years ago.
- B. A partial dinosaur skeleton found in Egypt's Dakhla Oasis belonged to a species named *Mansourasaurus*.
- C. *Mansourasaurus*, a species that lived approximately 80 million years ago, was discovered in 2013 by Egyptian paleontologist Hesham Sallam and a team of university students.
- D. The new species was named *Mansourasaurus* to recognize the team that discovered it, a professor and students from Mansoura University.

Alexander Lawrence Posey (1873–1908) varied his focus and tone depending on the genre in which he was writing. In his poetry, he used heartfelt language to evoke the beauty and peacefulness of his natural surroundings; in his journalism, _____ he employed humor and satire to comment on political issues affecting his Muskogee Creek community.

Which choice completes the text with the most logical transition?

- A. that is,
- B. granted,
- C. similarly,
- D. by contrast,

ID: 29f5d8bd

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

- In 1978, Sámi activists staged protests to block the construction of a dam on the Alta River in Norway.
- The dam would disrupt Sámi fishing and reindeer herding.
- The dam was ultimately built, but the Alta conflict had a lasting impact.
- It brought international attention to the issue of Sámi rights.
- It led to a set of 2005 legal protections establishing Sámi rights to lands, waters, and resources.

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

- A. During the Alta conflict, Sámi activists staged protests to block the construction of a dam on the Alta River in Norway that would disrupt local fishing and reindeer herding.
- B. Although the dam that the Sámi activists had protested was ultimately built, the Alta conflict had a lasting impact.
- C. Sámi rights to lands, waters, and resources received international attention and legal protections as a result of the Alta conflict.
- D. The Alta conflict had a lasting impact, resulting in international attention and legal protections for Sámi rights to lands, waters, and resources.

"Wishcycling"—putting nonrecyclable items into recycling bins under the mistaken belief that those items can be recycled—ultimately does more harm than good. Nonrecyclable items, such as greasy pizza boxes, can contaminate recyclable materials, rendering entire batches unusable. _____ nonrecyclable products can damage recycling plants' machinery.

Which choice completes the text with the most logical transition?

- A. Fittingly,
- B. On the contrary,
- C. Moreover,
- D. Nevertheless,

ID: 652950b7

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

- In 1897, African American inventor Andrew Beard invented an automatic coupler.
- It improved on the existing design of train car couplers.
- It made the job of connecting train cars safer.
- In 1938, African American inventor Frederick Jones invented a mobile refrigeration system.
- It improved on the existing design of food transport trucks.
- It enabled trucks to carry perishable foods farther.

The student wants to emphasize a similarity between Beard's invention and Jones's invention. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A. Beard's automatic coupler and Jones's mobile refrigeration system both improved on existing designs.
- B. In 1897, Beard invented an automatic coupler, which made the job of connecting train cars safer.
- C. Beard's invention made the job of connecting train cars safer, whereas Jones's invention enabled food transport trucks to carry perishables farther.
- D. Jones's mobile refrigeration system, which he invented in 1938, made it possible for food transport trucks to carry perishable foods farther.

ID: 654e54b2

The number of dark spots that appear on the Sun, known as sunspots, can vary greatly. For example, there were about 180 sunspots in November 2001. _____ there were only about 2 sunspots in December 2008.

Which choice completes the text with the most logical transition?

- A. In other words,
- B. Similarly,
- C. Therefore,
- D. By comparison,

ID: 07446ee8

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

- *Oracles of the Pink Universe* was a 2021 exhibition at the Denver Museum of Art in Colorado.
- It featured eight artworks by South African artist Simphiwe Ndzube.
- One of these works is a painting titled *Assertion of Will*.
- *Assertion of Will* depicts three standing figures.
- The figures wear clothing made of fabric pieces stitched to the painting's canvas.

The student wants to describe how fabric is used in *Assertion of Will*. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A. In *Assertion of Will*, the figures' clothing is made of fabric pieces stitched to the painting's canvas.
- B. The exhibition *Oracles of the Pink Universe* featured artworks by artist Simphiwe Ndzube.
- C. Depicting three standing, clothed figures, *Assertion of Will* is a painting by Simphiwe Ndzube.
- D. Simphiwe Ndzube's *Assertion of Will* was one of eight artworks exhibited in *Oracles of the Pink Universe* at the Denver Museum of Art.

ID: f65de8d2

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

- Muckrakers were journalists who sought to expose corruption in US institutions during the Progressive Era (1897–1920).
- Ida Tarbell was a muckraker who investigated the Standard Oil Company.
- She interviewed Standard Oil Company executives, oil industry workers, and public officials.
- She examined thousands of pages of the company's internal communications, including letters and financial records.
- Her book *The History of the Standard Oil Company* (1904) exposed the company's unfair business practices.

The student wants to emphasize the thoroughness of Ida Tarbell's investigation of the Standard Oil Company. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A. Ida Tarbell not only interviewed Standard Oil executives, oil industry workers, and public officials but also examined thousands of pages of the company's internal communications.
- B. Ida Tarbell, who investigated the Standard Oil Company, was a muckraker (a journalist who sought to expose corruption in US institutions during the Progressive Era, 1897–1920).
- C. As part of her investigation of the Standard Oil Company, muckraker Ida Tarbell conducted interviews.
- D. Published in 1904, muckraker Ida Tarbell's book *The History of the Standard Oil Company* exposed the company's unfair business practices.

ID: 990bd995

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

- A thermal inversion is a phenomenon where a layer of atmosphere is warmer than the layer beneath it.
- In 2022, a team of researchers studied the presence of thermal inversions in twenty-five gas giants.
- Gas giants are planets largely composed of helium and hydrogen.
- The team found that gas giants featuring a thermal inversion were also likely to contain heat-absorbing metals.
- One explanation for this relationship is that these metals may reside in a planet's upper atmosphere, where their absorbed heat causes an increase in temperature.

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

- A. Heat-absorbing metals may reside in a planet's upper atmosphere.
- B. The team studied thermal inversions in twenty-five gas giants, which are largely composed of helium and hydrogen.
- C. Researchers found that gas giants featuring a thermal inversion were likely to contain heat-absorbing metals, which may reside in the planets' upper atmospheres.
- D. Gas giants were likely to contain heat-absorbing metals when they featured a layer of atmosphere warmer than the layer beneath it, researchers found; this phenomenon is known as a thermal inversion.

ID: 43ca2315

To discover which fruit varieties were grown in Italy's Umbria region before the introduction of industrial farming, botanist Isabella Dalla Ragione often turns to centuries-old lists of cooking ingredients. _____ she analyzes Renaissance paintings of Umbria, as they can provide accurate representations of fruits that were grown there long ago.

Which choice completes the text with the most logical transition?

- A. In sum,
- B. Instead,
- C. Thus,
- D. Additionally,

ID: 9dcc184d

Plato believed material objects to be crude representations of unseen ideal forms. In his view, such abstract, nonmaterial forms are the ultimate source of knowledge. Aristotle disagreed, positing that knowledge is best obtained through direct engagement with the material world; _____ sensory experience of the material is the ultimate source of knowledge.

Which choice completes the text with the most logical transition?

- A. regardless,
- B. admittedly,
- C. in other words,
- D. meanwhile,

ID: cfb5df86

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

- Annie Wu is a prominent American flutist who graduated from the New England Conservatory.
- She has won multiple national flute competitions.
- She is best known for a 2011 YouTube video that has been viewed over two million times.
- The video shows her performing *Three Beats for Beatbox Flute*, an original work by composer Greg Pattillo.
- Wu combines flute playing and beatboxing in the video.

The student wants to emphasize Wu's most well-known achievement. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A. Annie Wu, who has won multiple national flute competitions, has also combined flute playing and beatboxing.
- B. Among her many achievements, prominent American flutist Annie Wu graduated from the New England Conservatory and has won multiple national flute competitions.
- C. Annie Wu is best known for a 2011 YouTube video performance of *Three Beats for Beatbox Flute* that has been viewed over two million times.
- D. Composer Greg Pattillo's original work *Three Beats for Beatbox Flute* combines flute playing and beatboxing.

ID: aba812aa

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

- Nissologists are scientists who study islands.
- Some nissologists define an island as any piece of land surrounded by water.
- Using that definition, they determined that Sweden has 221,000 islands.
- Other nissologists define an island as being 1 kilometer square, a certain distance from the mainland, and having at least 50 permanent residents.
- Using that definition, they determined that Sweden has 24 islands.

The student wants to make and support a generalization about nissologists' definition of an island. Which choice most effectively uses relevant information from the notes to accomplish these goals?

- A. The definition of an island as any piece of land surrounded by water is supported by some nissologists, scientists who study islands.
- B. Multiple counts of Sweden's islands have been based on different definitions of an island.
- C. Based on a recent count, Sweden has a relatively small number of islands with at least 50 permanent residents.
- D. Nissologists' different definitions can result in huge disparities in counts of islands, as the example of Sweden shows.

ID: bf829d75

Arkansas aviator Louise Thaden was already a record breaker when she won the inaugural National Women's Air Derby, a race from California to Ohio, in August of 1929. _____ in December of 1928, Thaden had set an aviation record when she reached an altitude of 20,269 feet in a Travel Air biplane.

Which choice completes the text with the most logical transition?

- A. Earlier,
- B. However,
- C. Next,
- D. As a result,

ID: f99639a1

When one looks at the dark craggy vistas in Hitoshi Fugo's evocative photo series, one's mind might wander off to the cratered surfaces of faraway planets. _____ it's the series' title, *Flying Frying Pan*, that brings one back to Earth, reminding the viewer that each photo is actually a close-up view of a familiar household object: a frying pan.

Which choice completes the text with the most logical transition?

- A. Consequently,
- B. Alternatively,
- C. Ultimately,
- D. Additionally,

ID: c6b6128f

Seismologists Kaiqing Yuan and Barbara Romanowicz have proposed that the magma fueling Iceland's more than 30 active volcano systems emerges from deep within Earth. The great depths involved—nearly 3,000 km—mark Iceland's volcanoes as extreme outliers; _____ many of Earth's volcanoes are fed by shallow pockets of magma found less than 15 km below the surface.

Which choice completes the text with the most logical transition?

- A. indeed,
- B. nevertheless,
- C. in addition,
- D. consequently,

ID: 3ba08ce1

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

- Maika'i Tubbs is a Native Hawaiian sculptor and installation artist.
- His work has been shown in the United States, Canada, Japan, and Germany, among other places.
- Many of his sculptures feature discarded objects.
- His work *Erasure* (2008) includes discarded audiocassette tapes and magnets.
- His work *Home Grown* (2009) includes discarded pushpins, plastic plates and forks, and wood.

The student wants to emphasize a similarity between the two works. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A. *Erasure* (2008) uses discarded objects such as audiocassette tapes and magnets; *Home Grown* (2009), however, includes pushpins, plastic plates and forks, and wood.
- B. Tubbs's work, which often features discarded objects, has been shown both within the United States and abroad.
- C. Like many of Tubbs's sculptures, both *Erasure* and *Home Grown* include discarded objects: *Erasure* uses audiocassette tapes, and *Home Grown* uses plastic forks.
- D. Tubbs completed *Erasure* in 2008 and *Home Grown* in 2009.

ID: 9f03982b

Practical movie effects, such as the use of actual locations in a film, provide a more realistic visual experience than computer-generated imagery (CGI) does, but giving audiences the “real thing” can be prohibitively expensive. _____ many filmmakers use a blended approach, employing practical effects whenever possible and CGI elements as necessary to control costs.

Which choice completes the text with the most logical transition?

- A. Similarly,
- B. For this reason,
- C. Furthermore,
- D. In other words,

ID: 853a1faa

Before the 1847 introduction of the US postage stamp, the cost of postage was usually paid by the recipient of a letter rather than the sender, and recipients were not always able or willing to pay promptly. _____ collecting this fee could be slow and arduous, and heaps of unpaid-for, undeliverable mail piled up in post offices.

Which choice completes the text with the most logical transition?

- A. Regardless,
- B. On the contrary,
- C. Consequently,
- D. For example,

ID: 1572e3e1

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

- As engineered structures, many bird nests are uniquely flexible yet cohesive.
- A research team led by Yashraj Bhosale wanted to better understand the mechanics behind these structural properties.
- Bhosale's team used laboratory models that simulated the arrangement of flexible sticks into nest-like structures.
- The researchers analyzed the points where sticks touched one another.
- When pressure was applied to the model nests, the number of contact points between the sticks increased, making the structures stiffer.

The student wants to present the primary aim of the research study. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A. Bhosale's team wanted to better understand the mechanics behind bird nests' uniquely flexible yet cohesive structural properties.
- B. The researchers used laboratory models that simulated the arrangement of flexible sticks and analyzed the points where sticks touched one another.
- C. After analyzing the points where sticks touched, the researchers found that the structures became stiffer when pressure was applied.
- D. As analyzed by Bhosale's team, bird nests are uniquely flexible yet cohesive engineered structures.

ID: dabfeafe

In 1891, dancer and choreographer Loie Fuller first performed her celebrated Serpentine Dance, artfully twirling her long, flowing skirt to create striking visual effects. _____ in 1896, cinema pioneers Auguste and Louis Lumière made a groundbreaking short film of Fuller's dance.

Which choice completes the text with the most logical transition?

- A. However,
- B. In conclusion,
- C. Later,
- D. In other words,

ID: ce7ee632

In the 1850s, William Still was instrumental in helping nearly 1,000 people escape from slavery, earning him the moniker “the Father of the Underground Railroad.” _____ despite the fame of his contributions during his lifetime, Still is discussed far less today than other prominent Black abolitionists from his era, such as Frederick Douglass and Harriet Tubman.

Which choice completes the text with the most logical transition?

- A. For example,
- B. However,
- C. Specifically,
- D. Similarly,

ID: cdb5fb80

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

- Etel Adnan was a Lebanese American poet and artist known for making many leporellos.
- A leporello is an artist's book that is folded accordion style.
- When the book is expanded, the artist's work is revealed, and its zigzag shape allows it to stand on its own.
- Her leporello *December from My Window* (1993) features a panoramic landscape.
- It is painted using ink and watercolor.

The student wants to describe Adnan's *December from My Window* to an audience already familiar with leporellos. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A. Featuring a panoramic landscape, the 1993 work is one of Adnan's many leporellos, which are accordion-style folded books that when expanded reveal the artist's work.
- B. When expanded, Adnan's 1993 leporello *December from My Window* reveals a panoramic landscape painted in ink and watercolor.
- C. Known for making many other accordion-style folded books called leporellos, Adnan created *December from My Window* in 1993.
- D. A leporello, such as Adnan's *December from My Window*, is folded accordion style, and due to its zigzag shape it is able to stand on its own when fully expanded.

ID: 867ceff8

The Sun and other stars are powered by nuclear fusion reactions, in which two atoms collide to form a single heavier atom, releasing energy. Scientists have long believed that fusion has the potential to meet humanity's clean energy needs. _____ prior to December 2022, no fusion reaction in a laboratory setting had ever generated a net energy gain.

Which choice completes the text with the most logical transition?

- A. For this reason,
- B. Moreover,
- C. Specifically,
- D. That said,

ID: d56ccd0a

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

- Bioluminescence is the emission of light by living organisms.
- This light is produced by chemical reactions in organisms' cells.
- Jellyfish emit flashes of blue light.
- This behavior serves to startle predators.
- Black dragonfish emit a steady red light.
- This behavior helps them locate prey in deep waters.

The student wants to emphasize a difference between the behavior of jellyfish and that of black dragonfish. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A. Both jellyfish and black dragonfish are organisms that emit light, which is produced by chemical reactions in these organisms' cells.
- B. Black dragonfish emit a steady red light, which helps them locate prey in deep waters.
- C. Bioluminescence, the emission of light by living organisms, results from chemical reactions in organisms' cells.
- D. Jellyfish emit light to startle predators, whereas black dragonfish do so to locate prey.

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

- The popular wood-wide web theory posits that trees can communicate and exchange resources with one another via common mycorrhizal networks (CMNs) of fungi.
- Ecologist Dr. Suzanne Simard first suggested this theory in 1997.
- She described trees as “super-cooperators.”
- In the 2022 study “The Decay of the Wood-Wide Web?,” mycologist Dr. Justine Karst and colleagues evaluated dozens of CMN studies.
- They write that CMNs “have captured the interest of broad audiences. We are concerned, however, that recent claims about CMNs in forests are disconnected from evidence.”

The student wants to use a quotation to emphasize a potential problem with the wood-wide web theory.

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

- A. Describing trees as “super-cooperators,” Simard first suggested that trees can exchange resources with one another in 1997.
- B. In “The Decay of the Wood-Wide Web?,” Karst and colleagues note that common mycorrhizal networks “have captured the interest of broad audiences.”
- C. After evaluating dozens of CMN studies, Karst and colleagues expressed concern that recent claims about common mycorrhizal networks are “disconnected from evidence.”
- D. Despite the concerns expressed in the 2022 study “The Decay of the Wood-Wide Web?,” the wood-wide web theory remains popular.

ID: 95db4b9e

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

- Gravitational waves are powerful ripples that originate in deep space and eventually pass through Earth.
- The Laser Interferometer Gravitational Wave Observatory (LIGO) is a physics study that began in 2002.
- LIGO's goal is to detect and analyze gravitational waves.
- LIGO uses a pair of massive gravitational wave detectors called interferometers that are thousands of miles apart.
- In 2015, for the first time in history, LIGO researchers detected a gravitational wave passing through Earth.

The student wants to present LIGO's aim and methodology. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A. In 2015, LIGO's massive interferometers detected a powerful ripple that originated in deep space and eventually passed through Earth.
- B. Though the physics study LIGO began in 2002, its massive interferometers didn't detect a gravitational wave until 2015.
- C. To achieve its aims, LIGO uses a pair of massive interferometers that are thousands of miles apart.
- D. A physics study designed to detect and analyze gravitational waves, LIGO uses a pair of massive interferometers that are thousands of miles apart.

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

- In 1971, experimental musician Pauline Oliveros created *Sonic Meditations*.
- *Sonic Meditations* is not music but rather a series of sound-based exercises called meditations.
- Each meditation consists of instructions for participants to make, imagine, listen to, or remember sounds.
- The instructions for Meditation V state, “walk so silently that the bottoms of your feet become ears.”
- Those for Meditation XVIII state, “listen to a sound until you no longer recognize it.”

The student wants to provide an explanation and an example of Oliveros’s *Sonic Meditations*. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A. *Sonic Meditations* is not music but rather a series of sound-based meditations that consist of instructions; Meditation XVIII, for instance, instructs participants to “listen to a sound until you no longer recognize it.”
- B. In 1971, Oliveros created *Sonic Meditations*, a series of meditations that consist of instructions for participants to make, imagine, listen to, or remember sounds.
- C. “Walk so silently that the bottoms of your feet become ears” is one example of the instructions found in Oliveros’s *Sonic Meditations*.
- D. While both meditations consist of instructions, Meditation XVIII instructs participants to “listen,” whereas Meditation V instructs participants to “walk.”

Magnetic levitation (maglev) trains are suspended above a track by powerful electromagnets, reducing friction and thus allowing for much faster speeds. Though maglev advocates in the US have long imagined these trains crisscrossing the country, their dream remains unrealized. _____ of the handful of maglev trains currently in operation, all are in Asia.

Which choice completes the text with the most logical transition?

- A. In fact,
- B. To that end,
- C. Nevertheless,
- D. That said,

ID: 355d0918

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

- Some US reformers sought to improve society in the 1800s by building utopias.
- A utopia is a community intended to represent a perfect society based on a specific set of principles.
- One such community was Brook Farm near Boston, Massachusetts.
- It was founded in 1841 by writer George Ripley.
- Ripley wrote in a letter that his goal for Brook Farm was “to guarantee the highest mental freedom, by providing all with labor, adapted to their tastes and talents, and securing to them the fruits of their industry.”

The student wants to explain the goal of Brook Farm using a quotation from George Ripley. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A. In a letter, writer George Ripley explained his goal to “guarantee the highest mental freedom.”
- B. Utopias, such as Brook Farm, founded by George Ripley in 1841, were based on a specific set of principles intended to create a perfect society.
- C. Founded by George Ripley near Boston, Massachusetts, Brook Farm was part of a trend in the 1800s, when reformers in the United States built utopias.
- D. Established in 1841, Brook Farm was a utopian community created to “guarantee the highest mental freedom, by providing all with labor... [and] the fruits of their industry,” according to founder George Ripley.

ID: d15c457b

Researchers believe that pieces of hull found off Oregon's coast are from a Spanish cargo ship that was lost in 1697. Stories passed down among the area's Confederated Tribes of Siletz Indians support this belief. _____ Siletz stories describe how blocks of beeswax, an item the ship had been carrying, began washing ashore after the ship was lost.

Which choice completes the text with the most logical transition?

- A. For this reason,
- B. For example,
- C. However,
- D. Likewise,

ID: c5423706

In a heated debate in biogeography, the field is divided between dispersalists and vicariantists. _____ there are those who argue that dispersal is the most crucial determining factor in a species' distribution, and those who insist that vicariance (separation due to geographic barriers) is. Biogeographer Isabel Sanmartín counts herself among neither.

Which choice completes the text with the most logical transition?

- A. Furthermore,
- B. By contrast,
- C. Similarly,
- D. That is,

ID: 1d5b9a35

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

- A wok is a cooking pan that originated in China during the Han dynasty (206 BCE–220 CE).
- The wok's round, wide base helps to cook food evenly.
- The wok's high, angled sides help to contain oil splatters.
- Grace Young is a cook and culinary historian.
- Her book *The Breath of a Wok* (2004) traces the history of the wok.

The student wants to describe the wok's shape. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A. Grace Young's 2004 book, *The Breath of a Wok*, traces the history of the cooking pan.
- B. Able to cook food evenly and contain oil splatters, the wok is the subject of Grace Young's 2004 book.
- C. A wok is a cooking pan with a round, wide base and high, angled sides.
- D. The design of a wok, a type of cooking pan that originated in China during the Han dynasty, helps the pan cook food evenly and contain oil splatters.

ID: bcb73490

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

- Neuroscientists Krishnan Padmanabhan and Zhen Chen sought to better understand the workings of the brain's olfactory system.
- They devised a study using mathematical models.
- They found that certain fibers allow the brain to toggle from one method of processing smells to another.
- In one method, cells in the piriform cortex (where the perception of odor forms) capture olfactory information at a given moment.
- In the other, the cells track changes in olfactory information over time.

The student wants to summarize the study's findings. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A. To arrive at these findings, which describe dual methods of processing smells in the piriform cortex, Padmanabhan and Chen devised a study using mathematical models.
- B. Padmanabhan and Chen showed that olfactory information is captured by cells in the piriform cortex, where the perception of odor forms.
- C. Using mathematical models, Padmanabhan and Chen devised a study to better understand the workings of the brain's olfactory system.
- D. According to Padmanabhan and Chen, the brain can toggle between capturing olfactory information at a given moment and tracking changes in that information over time.

ID: e8a79e6a

It has long been thought that humans first crossed a land bridge into the Americas approximately 13,000 years ago. _____ based on radiocarbon dating of samples uncovered in Mexico, a research team recently suggested that humans may have arrived more than 30,000 years ago—much earlier than previously thought.

Which choice completes the text with the most logical transition?

- A. As a result,
- B. Similarly,
- C. However,
- D. In conclusion,

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

- The Million Song Dataset (MSD) includes main audio features and descriptive tags for popular songs.
- Audio features include acoustic traits such as loudness and pitch intervals.
- Many algorithms use these audio features to predict a new song's popularity.
- These algorithms may fail to accurately identify main audio features of a song with varying acoustic traits.
- Algorithms based on descriptive tags that describe fixed traits such as genre are more reliable predictors of song popularity.

The student wants to explain a disadvantage of relying on audio features to predict a song's popularity.

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

- A. Many popularity-predicting algorithms are based on a song's audio features, such as loudness and pitch intervals.
- B. Algorithms based on audio features may misidentify the main features of a song with varying acoustic traits, making such algorithms less reliable predictors of popularity than those based on fixed traits.
- C. Audio features describe acoustic traits such as pitch intervals, which may vary within a song, whereas descriptive tags describe fixed traits such as genre, which are reliable predictors of popularity.
- D. The MSD's descriptive tags are reliable predictors of a song's popularity, as the traits they describe are fixed.

ID: 0a6b66b3

In 1815, while in exile in Jamaica, Venezuelan revolutionary Simón Bolívar penned a letter praising England's republican government and expressing hope that Latin American nations seeking independence from Spain might achieve something similar. The letter was addressed to a local merchant, Henry Cullen; _____ though, Bolívar's goal was to persuade political leaders from England and Europe to support his cause.

Which choice completes the text with the most logical transition?

- A. additionally,
- B. ultimately,
- C. accordingly,
- D. consequently,

ID: 3413c844

In 2018, Kurt Luther and Vikram Mohanty created the web-based tool Civil War Photo Sleuth (CWPS). A user uploading an unknown Civil War soldier's photograph to CWPS first tags the photo with all known information. _____ CWPS's facial-recognition software analyzes twenty-seven different physical features and looks for matches to tagged images already in the database.

Which choice completes the text with the most logical transition?

- A. Then,
- B. In fact,
- C. Likewise,
- D. For example,

ID: 5e3e20f9

For years, biologists have experimented with using grime-eating bacteria rather than harsh chemicals to clean artworks, and results have been impressive overall. _____ these bacterial strains—which can metabolize centuries' worth of oil, glue, dirt, and other surface impurities without creating harmful byproducts—have proven more effective than traditional chemical cleaning methods.

Which choice completes the text with the most logical transition?

- A. However,
- B. In many cases,
- C. As a result,
- D. Additionally,

ID: 6be089ec

A 2017 study of sign language learners tested the role of iconicity—the similarity of a sign to the thing it represents—in language acquisition. The study found that the greater the iconicity of a sign, the more likely it was to have been learned. _____ the correlation between acquisition and iconicity was lower than that between acquisition and another factor studied: sign frequency.

Which choice completes the text with the most logical transition?

- A. In fact,
- B. In other words,
- C. Granted,
- D. As a result,

ID: 89926ff8

With darkness falling, a mother elephant loses sight of her calf and wants to make sure it is safe. _____ she releases an infrasonic call for the calf to hear. Infrasonic sound is below the range of human hearing, but many animals can hear these sounds from several miles away.

Which choice completes the text with the most logical transition?

- A. For example,
- B. For this reason,
- C. Nowadays,
- D. Similarly,

ID: 9daa4075

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

- The painter Frida Kahlo is one of the most influential artists of the twentieth century.
- She was born in Coyoacán, Mexico, in 1907.
- She is best known for her vivid and richly symbolic self-portraits.
- *The Two Fridas* (1939) features two versions of Kahlo sitting together.
- One version wears a European-style dress and the other a traditional Tehuana dress.

The student wants to introduce Kahlo to an audience unfamiliar with the artist. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A. Known for being vivid and richly symbolic, Frida Kahlo's self-portraits include *The Two Fridas* (1939).
- B. The 1939 painting *The Two Fridas* is one example of a self-portrait by Frida Kahlo.
- C. One painting by Frida Kahlo features two versions of herself, with one version wearing a European-style dress and the other a traditional Tehuana dress.
- D. One of the most influential artists of the twentieth century, Mexican painter Frida Kahlo is best known for her self-portraits, which are vivid and richly symbolic.

ID: a2941bd8

Iraqi artist Nazik Al-Malaika, celebrated as the first Arabic poet to write in free verse, didn't reject traditional forms entirely; her poem "Elegy for a Woman of No Importance" consists of two ten-line stanzas and a standard number of syllables. Even in this superficially traditional work, _____ Al-Malaika was breaking new ground by memorializing an anonymous woman rather than a famous man.

Which choice completes the text with the most logical transition?

- A. therefore,
- B. in fact,
- C. moreover,
- D. though,

ID: dd18368e

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

- Archaeologist Dr. Sada Mire founded the Horn Heritage Foundation to preserve the cultural history of regions in the Horn of Africa.
- Horn Heritage has overseen a preservation project to create 3D digital scans of ancient rock art in Somaliland.
- Paintings found at the Laas Geel caves are included in the scans.
- The Laas Geel paintings feature human figures and animals.
- Paintings found at the Dhagah Nabi Galay caves are included in the scans.
- The Dhagah Nabi Galay caves feature what are thought to be the earliest examples of writing in East Africa.

The student wants to emphasize a similarity between the Laas Geel paintings and the Dhagah Nabi Galay paintings. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A. The earliest examples of writing in East Africa are thought to be featured in the paintings at the Dhagah Nabi Galay caves in Somaliland.
- B. The paintings at the Dhagah Nabi Galay caves feature examples of writing, while those at the Laas Geel caves feature humans and animals.
- C. In Somaliland, the paintings in the Laas Geel caves feature human figures and animals.
- D. The Laas Geel paintings and the Dhagah Nabi Galay paintings are both examples of ancient rock art found in Somaliland.

ID: bffa7aea

Establishing Coordinated Universal Time (UTC) is no easy task. Each month, readings of a single second from atomic clocks around the world are taken and sent to the International Bureau of Weights and Measures (BIPM) in France. _____ BIPM metrologists perform the meticulous work of assembling these minutely disparate readings into a globally shared time standard.

Which choice completes the text with the most logical transition?

- A. There,
- B. In particular,
- C. For example,
- D. Conversely,

ID: 68ef9df3

Jhumpa Lahiri's story collection *Interpreter of Maladies* features multiple stories about romantic relationships. In "This Blessed House," newlyweds argue over whether to replace items left by the previous owners of their new home. _____ in "A Temporary Matter," a husband and wife attempt to rekindle their relationship during a four-night blackout.

Which choice completes the text with the most logical transition?

- A. Granted,
- B. For example,
- C. Likewise,
- D. Hence,

ID: fbb64b41

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

- Claude McKay (1889–1948) was a Jamaican American writer.
- *Songs of Jamaica* (1912) and *Constab Ballads* (1912) are two acclaimed poetry collections that McKay published while living in Jamaica.
- McKay moved to Harlem in New York City in 1914.
- He is best known as a poet and novelist of the Harlem Renaissance, a literary and cultural movement of the 1920s and 1930s.
- His most famous works include the poetry collection *Harlem Shadows* (1922) and the novel *Home to Harlem* (1928).

The student wants to emphasize Claude McKay's accomplishments before moving to Harlem. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A. Jamaican American writer Claude McKay is the author of works such as *Songs of Jamaica* (1912), *Constab Ballads* (1912), *Harlem Shadows* (1922), and *Home to Harlem* (1928).
- B. Although he is best known as a Harlem Renaissance writer, Claude McKay had published two acclaimed poetry collections in 1912 while living in Jamaica: *Songs of Jamaica* and *Constab Ballads*.
- C. In 1914, Claude McKay moved to Harlem, where he would become known as a poet and novelist of the Harlem Renaissance (a literary and cultural movement of the 1920s and 1930s).
- D. Before moving to Harlem, Claude McKay—author of the poetry collection *Harlem Shadows* (1922) and the novel *Home to Harlem* (1928)—lived in Jamaica.

ID: 6b646bda

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

- Marine biologist Camille Jazmin Gaynus studies coral reefs.
- Coral reefs are vital underwater ecosystems that provide habitats to 25% of all marine species.
- Reefs can include up to 8,000 species of fish, such as toadfish, seahorses, and clown triggerfish.
- The Amazon Reef is a coral reef in Brazil.
- It is one of the largest known reefs in the world.

The student wants to introduce the scientist and her field of study to a new audience. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A. Located in Brazil, the Amazon Reef is one of the largest known coral reefs in the world.
- B. Marine biologist Camille Jazmin Gaynus studies coral reefs, vital underwater ecosystems that provide homes to 25% of all marine species.
- C. Providing homes to 25% of all marine species, including up to 8,000 species of fish, coral reefs are vital underwater ecosystems and thus of great interest to marine biologists.
- D. As Camille Jazmin Gaynus knows well, coral reefs are vital underwater ecosystems, providing homes to thousands of species of fish.

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

- Some powerful works of literature have so influenced readers that new legislation has been passed as a result.
- *The Interesting Narrative of the Life of Olaudah Equiano* (1789) is the autobiography of a man who endured slavery on both sides of the Atlantic.
- Equiano's book contributed to the passage of the Slave Trade Act of 1807.
- *The Jungle* (1906) is a fictional work by Upton Sinclair that describes unsanitary conditions in US meatpacking plants.
- Sinclair's book contributed to the passage of the Pure Food and Drug Act in 1906.

The student wants to emphasize a difference between the two books. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A. Although both are powerful works of literature that contributed to new legislation, Equiano's book is an autobiography, while Sinclair's is fictional.
- B. They may have written about different topics, but Equiano and Sinclair both influenced readers.
- C. The 1807 Slave Trade Act resulted in part from a book by Equiano, while the 1906 Pure Food and Drug Act resulted in part from a book by Sinclair.
- D. *The Interesting Narrative of the Life of Olaudah Equiano* and *The Jungle* are two works of literature that contributed to new legislation (concerning the slave trade and food safety, respectively).

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

- Freddie Wong (born 1985) is a director and special effects artist from the United States.
- He is best known for the action-comedy web series *Video Game High School* (*VGHS*).
- *VGHS* premiered in 2012 on RocketJump, a YouTube channel that Wong cocreated.
- The series was celebrated for its inventive video game–centric world and high-quality special effects.
- *VGHS* was nominated for a Producers Guild Award for Outstanding Digital Series.

The student wants to begin a narrative about Wong's award-nominated web series. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A. In 2012, director and visual effects artist Freddie Wong launched a new action-comedy web series: *Video Game High School*.
- B. *Video Game High School* was celebrated for its inventive video game–centric world and high-quality special effects, and it was nominated for a Producer's Guild Award for Outstanding Digital Series.
- C. Wong, cocreator of the YouTube channel RocketJump, would go on to see his web series be nominated for a Producers Guild Award.
- D. In 2012, *Video Game High School* premiered on RocketJump; it would later be nominated for an award.

ID: aadcdfa3

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

- In geology, an Aeolian landform is one that has been created by the wind.
- In Greek mythology, Aeolus is the keeper of the winds.
- Aeolian landforms are created when the wind erodes, transports, or deposits material.
- A mushroom rock is a rock formation in which the top is wider than the base.
- A mushroom rock can be formed when the wind erodes the base and the top at different rates.

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

- A. Aeolian landforms are created by different wind-based processes; for example, some are created by wind erosion.
- B. Aeolian landforms—landforms created by the wind—include the mushroom rock, a rock formation in which the wind erodes the base of the rock faster than the top.
- C. Erosion, transportation, and deposition are three examples of how the wind can create Aeolian landforms and mushroom rocks.
- D. A mushroom rock is a rock formation that owes its shape to the wind, a natural force associated with Aeolus in Greek mythology.

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

- Organisms release cellular material into their environment by shedding substances such as hair or skin.
- The DNA in these substances is known as environmental DNA, or eDNA.
- Researchers collect and analyze eDNA to detect the presence of species that are difficult to observe.
- Geneticist Sara Oyler-McCance's research team analyzed eDNA in water samples from the Florida Everglades to detect invasive constrictor snake species in the area.
- The study determined a 91% probability of detecting Burmese python eDNA in a given location.

The student wants to present the study to an audience already familiar with environmental DNA. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A. Sara Oyler-McCance's researchers analyzed eDNA in water samples from the Florida Everglades for evidence of invasive constrictor snakes, which are difficult to observe.
- B. An analysis of eDNA can detect the presence of invasive species that are difficult to observe, such as constrictor snakes.
- C. Researchers found Burmese python eDNA, or environmental DNA, in water samples; eDNA is the DNA in released cellular materials, such as shed skin cells.
- D. Sara Oyler-McCance's researchers analyzed environmental DNA (eDNA)—that is, DNA from cellular materials released by organisms—in water samples from the Florida Everglades.

ID: 38a981d0

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

- Archaeologist Jon Erlandson and colleagues argue that humans first arrived in the Americas by sea.
- They propose that humans traveled between Pacific Ocean islands and coastlines from northeast Asia to the Americas.
- Many of these islands and coastal zones were later submerged as glaciers melted and sea levels rose.
- The researchers think that “a coastal route, including kelp forests and estuaries, would have provided a rich mix of marine, estuarine, riverine, and terrestrial resources” such as seaweeds, fish, and birds.
- This proposed scenario is known as the kelp highway hypothesis.

The student wants to summarize the kelp highway hypothesis. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A. Pacific Ocean islands and coastlines likely contained “a rich mix of marine, estuarine, riverine, and terrestrial resources” such as seaweeds, fish, and birds, according to researchers.
- B. One argument about how humans first arrived in the Americas is the kelp highway hypothesis proposed by Jon Erlandson and colleagues.
- C. Humans may have first arrived in the Americas by sea, traveling between Pacific Ocean islands and coastlines and subsisting on a variety of resources.
- D. As glaciers melted and sea levels rose, many Pacific Ocean islands and coastal zones were submerged.

ID: b97f36d1

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

- The Azores is a group of islands about 870 miles off the coast of Portugal.
- Historians have long believed that in the fifteenth century Portuguese mariners were the first humans to populate the Azores.
- A 2015 study coauthored by Sofia Gabriel and Maria da Luz Mathias found that Vikings from Scandinavia may have populated the Azores as early as the ninth century.
- The researchers found a genetic connection between house mice in the Azores and house mice in Scandinavia.
- House mice may have traveled from Scandinavia to the Azores on Viking ships.

The student wants to specify who may have first populated the Azores, according to the 2015 study. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A. Historians have long believed that the first humans to populate the Azores, a group of islands about 870 miles off the coast of Portugal, arrived in the fifteenth century.
- B. Portuguese mariners may not have been the first humans to populate the Azores.
- C. In their 2015 study, the researchers found a genetic connection between house mice in the Azores and those in Scandinavia.
- D. According to a 2015 study, the first humans to populate the Azores may have been Vikings from Scandinavia, not mariners from Portugal as previously believed.

ID: b513efa9

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

- Species belonging to the Orchidaceae (orchid) family can be found in both tropical and temperate environments.
- Orchidaceae species diversity has not been well studied in temperate forests, such as those in Oaxaca, Mexico.
- Arelee Estefanía Muñoz-Hernández led a study to determine how many different Orchidaceae species are present in the forests of Oaxaca.
- Muñoz-Hernández and her team collected orchids each month for a year at a site in Oaxaca.
- Seventy-four Orchidaceae species were present at the site.

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. A study led by Arelee Estefanía Muñoz-Hernández identified a total of 74 Orchidaceae species in the temperate forests of Oaxaca, Mexico.
- B. There are orchids in many environments, but there are 74 Orchidaceae species in Oaxaca, Mexico.
- C. Oaxaca, Mexico, is home to temperate forests containing 74 Orchidaceae species.
- D. Arelee Estefanía Muñoz-Hernández and her team wanted to know how many different Orchidaceae species are present in the forests of Oaxaca, Mexico, so they conducted a study to collect orchids.

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

- The Pueblo of Zuni is located about 150 miles west of Albuquerque, New Mexico.
- It is the traditional home of the A:shiwi (Zuni) people.
- The A:shiwi A:wan Museum and Heritage Center was established by tribal members in 1992.
- Its mission is stated on its website: "As a tribal museum and heritage center for the Zuni people and by the Zuni people we work to provide learning experiences that emphasize A:shiwi ways of knowing, as well as exploring modern concepts of knowledge and the transfer of knowledge."

The student wants to emphasize how long the museum has existed. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A. The Pueblo of Zuni is home to the A:shiwi A:wan Museum and Heritage Center, which was founded by tribal members.
- B. The A:shiwi A:wan Museum and Heritage Center has served the Pueblo of Zuni since 1992.
- C. According to its website, the A:shiwi A:wan Museum and Heritage Center (founded in the 1990s) works to "emphasize A:shiwi ways of knowing."
- D. Knowledge has been one of the central themes of the A:shiwi A:wan Museum and Heritage Center from its founding.

ID: a3df6d00

Because an achiral molecule is symmetrical, flipping it yields a structurally identical molecule. A flipped chiral molecule, _____ can be compared to a glove that has been turned inside out: it produces a structurally inverted molecule rather than an identical one.

Which choice completes the text with the most logical transition?

- A. in other words,
- B. by contrast,
- C. for example,
- D. similarly,

ID: 97da78d2

"O2 Arena," an award-winning science fiction story by Nigerian author Oghenechovwe Donald Ekpeki, takes place in an alternate version of Nigeria where breathable air is a rare commodity that is owned and sold by companies. _____ people must purchase it with currency called O2 credits.

Which choice completes the text with the most logical transition?

- A. As a result,
- B. In any case,
- C. Nevertheless,
- D. Earlier,

ID: cf842c88

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

- Wool is a natural—and economically important—fiber that is obtained from animals like sheep.
- Australia is a leading producer of wool.
- The thickness of wool fibers varies across sheep breeds.
- Merino sheep produce fine wool that is used for apparel.
- Rambouillet sheep produce fine wool that is used for apparel.
- Romney sheep produce thick wool that is used for rugs and blankets.

The student wants to emphasize how Romney wool differs from Merino and Rambouillet wool. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A. Romney wool is just one of the many kinds of wools, each originating from a different breed of sheep.
- B. Sheep wool varies from breed to breed, so Romney wool will be different than other kinds of wool.
- C. The fine wool produced by Merino and Rambouillet sheep is used for apparel, whereas the thicker wool of Romney sheep is used in rugs and blankets.
- D. Wool is an economically important fiber—especially in Australia—that can be used to make apparel or even rugs and blankets.

ID: 274d8844

Okot p'Bitek's poem *Song of Lawino* (1966) explores postcolonial Ugandan life through the eyes of a woman living in a rural village. With its vibrant imagery, bitingly satiric tone, and dexterous use of traditional Acholi song and phraseology, the poem inspired a generation of East African writers. _____ those who adopted its style are often referred to as Okot School poets.

Which choice completes the text with the most logical transition?

- A. Nevertheless,
- B. Fittingly,
- C. By comparison,
- D. Instead,

ID: 5bb70279

“Tulip mania”—the rapid rise and sudden fall of the price of tulip bulbs in seventeenth-century Amsterdam—is often cited as an example of the perils of rampant market speculation. However, recent research has demonstrated that the episode was neither as frenzied nor as disastrous as has been thought. The popular myth surrounding it, _____ should be regarded with some skepticism.

Which choice completes the text with the most logical transition?

- A. for example,
- B. by contrast,
- C. nevertheless,
- D. therefore,

ID: cb822294

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

- Yellowstone is a national park in the northwest United States.
- In 1995, gray wolves were reintroduced into the park.
- Since then, the number of gray wolves in the park has stabilized at roughly 100.
- This number is believed to be the park's carrying capacity.
- Carrying capacity describes the maximum number of a species that a specific environment's resources can sustain over time.

The student wants to specify the number of gray wolves in Yellowstone. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A. Gray wolves were reintroduced into Yellowstone, a national park in the northwest United States, in 1995.
- B. As of 1995, there were gray wolves living in Yellowstone, a national park in the northwest United States.
- C. The carrying capacity of an environment, such as Yellowstone, describes the maximum number of species that the environment can sustain over time.
- D. Yellowstone is a national park that has roughly 100 gray wolves living in it.

ID: e70d7967

Riley Black—the author of critically acclaimed books such as *My Beloved Brontosaurus* (2013)—is best known for writing about dinosaurs, but she has also conducted hands-on fieldwork. _____ her fieldwork has included paleontological digs in Utah, Montana, and Wyoming, and her dinosaur fossil discoveries can be seen at places such as the Carnegie Museum of Natural History.

Which choice completes the text with the most logical transition?

- A. Regardless,
- B. Subsequently,
- C. Specifically,
- D. Conversely,

ID: c0c20ca3

A potter choosing which type of clay to use for a piece considers two key factors: the desired look of the piece and its intended use. _____ earthenware clay is often used for decorative pieces because of its rustic look. This type of clay is not often used in industrial settings, though, because it is less durable than other clays.

Which choice completes the text with the most logical transition?

- A. In other words,
- B. Regardless,
- C. In conclusion,
- D. For example,

ID: 2138137b

The chemical trimethylamine N-oxide not only gives fish their fishy smell but also protects them from crushing hydrostatic pressure in deep waters. Trimethylamine N-oxide strengthens the bonds between water molecules in a fish's body. _____ these water molecules maintain their linked structure at extreme depths, thus preventing pressure-related damage.

Which choice completes the text with the most logical transition?

- A. Nevertheless,
- B. As a result,
- C. However,
- D. For instance,

ID: 2e05d87a

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

- Novelist Willa Cather grew up in Nebraska and attended the University of Nebraska-Lincoln.
- Some of Cather's best-known novels are set in Nebraska.
- Two such novels are *O Pioneers!* (1913) and *My Ántonia* (1918).
- Cather's novels describe the experiences of immigrants who settled in the Great Plains.

The student wants to identify the setting of Cather's novel *My Ántonia*. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A. *My Ántonia* is set in Nebraska, where Cather grew up.
- B. Cather, author of *My Ántonia*, described the experiences of immigrants in her novels.
- C. Among Cather's best-known novels are *O Pioneers!* (1913) and *My Ántonia* (1918).
- D. Cather attended the University of Nebraska-Lincoln and set some of her novels in Nebraska.

ID: 140d2d15

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

- Stars form in a galaxy when gravity causes a massive cloud of dust and gas to collapse.
- A galaxy in a phase of rapid star formation is called a starburst galaxy.
- Quenching is a process in which a galaxy loses star-forming gas.
- A galaxy that no longer forms stars is called a quenched galaxy.
- A quenched galaxy has entered the poststarburst phase.

The student wants to explain what a quenched galaxy is. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A. Before quenching, a starburst galaxy will form stars at a rapid rate.
- B. When it becomes quenched, a starburst galaxy enters the poststarburst phase.
- C. Having entered the poststarburst phase, a quenched galaxy is one that no longer forms stars.
- D. A starburst galaxy will lose star-forming gas and eventually become quenched.

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

- Platinum is a rare and expensive metal.
- It is used as a catalyst for chemical reactions.
- Platinum catalysts typically require a large amount of platinum to be effective.
- Researcher Jianbo Tang and his colleagues created a platinum catalyst that combines platinum with liquid gallium.
- Their catalyst was highly effective and required only trace amounts of platinum (0.0001% of the atoms in the mixture).

The student wants to explain an advantage of the new platinum catalyst developed by Jianbo Tang and his colleagues. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A. Researcher Jianbo Tang and his colleagues created a platinum catalyst that combines platinum, a rare and expensive metal, with liquid gallium.
- B. Like other platinum catalysts, the new platinum catalyst requires a particular amount of the metal to be effective.
- C. Platinum is a rare and expensive metal that is used as a catalyst for chemical reactions; however, platinum catalysts typically require a large amount of platinum to be effective.
- D. While still highly effective, the new platinum catalyst requires far less of the rare and expensive metal than do other platinum catalysts.