

Comprehensive Reading Drill

Answers can be found starting on page 224.

While most fiction writers edit their stories and re-write them when faced with challenging narrative obstacles, Argentine author César Aira _____ the traditional revision process, choosing instead to construct creative solutions to tricky narrative problems rather than simply cut anything that he has already written.

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

- (A) allows
- (B) avoids
- (C) embraces
- (D) integrates

While Navajo musician Klee Benally is perhaps best known for his role as lead vocalist and guitarist for the band Blackfire, he is also a documentary filmmaker and activist. One of his films, *The Snowball Effect*, cautioned against the possible _____ impact of a proposed ski resort on sacred tribal lands in Arizona.

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

- (A) aesthetic
- (B) detrimental
- (C) economic
- (D) restorative



The following text is from Anne Virginia Culbertson's 1904 short story "How Mr. Terrapin Lost His Beard."

The "cook-house" stood at some little distance from the "big house," and every evening after supper it was full of light and noise and laughter. The light came from the fire on the huge hearth, above which hung the crane and the great iron pots which Eliza, the cook, declared were indispensable in the practice of her art. To be sure, there was a cook-stove, but 'Liza was wedded to old ways and maintained there was nothing "stove cooked" that could hope to rival the rich and nutty flavor of ash cake, or greens "b'iled slow an' long over de ha'th, wid a piece er bacon in de pot."

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

(A) Amusement

(B) Recital

(C) Execution

(D) Appraisal



Invented in 1775, Scheele's green (CuHAsO_3) is an acidic copper arsenite that creates a vivid emerald-green pigment and is dangerous to humans. Used in wallpaper and candles in Victorian-era England, the arsenite was completely phased out by the late 1800s, as the public gained knowledge of how toxic its vapors were. However, after the turn of the century, Scheele's green reappeared as an effective insecticide and, controversially, as a food dye to create bright green candy.

Which choice best describes the overall structure of the text?

(A) It describes an invention and then gives specific reasons for its continued use.

(B) It describes a hypothesis concerning a compound and then contradicts that hypothesis.

(C) It introduces a product and then discusses both the uses and the dangers associated with that product.

(D) It explains the initial purpose of an invention and then questions the ethics behind that invention.

5

Text 1

Binge-watching, or viewing multiple episodes of a show at once, became popular with the widespread availability of internet streaming services in the early twenty-first century. Clinical psychologist Dr. John Mayer explains that binge-watching can serve as a form of stress relief for viewers. According to Dr. Mayer, the experience of disconnecting from the real world through an extended viewing session triggers the release of dopamine, a chemical, from the brain, which leads to feelings of relaxation and pleasure.

Text 2

Clinical psychologist Dr. Renee Carr warns that any activity that produces dopamine can potentially be dangerous if an individual engages in the behavior too frequently and becomes dependent on the desirable feelings it produces. She notes that while dopamine is not addictive in and of itself, a form of addiction can take hold whenever an individual develops a need for any activity, including binge-watching, no matter how harmless that activity might seem.

Based on the texts, how would Dr. Renee Carr (Text 2) most likely respond to Dr. John Mayer's observations (Text 1)?

- (A) She would argue that binge-watching can have very different effects on people depending on the subject matter being viewed.
- (B) She would point out that the long-term effects of binge-watching will be negative for streaming companies as well.
- (C) She would suggest that Dr. Mayer compare the dopamine effects of binge-watching to the dopamine effects experienced as the result of engaging in other kinds of pleasurable activities.
- (D) She would suggest that frequent binge-watching may not have an entirely positive effect upon an individual.

6

The following text is from the 1914 short story "A Mother" by James Joyce. Mrs. Kearney, the mother of local pianist Kathleen Kearney, is being discussed.

She had been educated in a high-class convent, where she had learned French and music. As she was naturally pale and unbending in manner she made few friends at school. When she came to the age of marriage she was sent out to many houses where her playing and ivory manners were much admired. She sat amid the chilly circle of her accomplishments, waiting for some suitor to brave it and offer her a brilliant life. But the young men whom she met were ordinary and she gave them no encouragement, trying to console her romantic desires by eating a great deal of Turkish Delight in secret.

According to the text, what is true about Mrs. Kearney?

- (A) Mrs. Kearney had certain standards regarding a potential husband.
- (B) Mrs. Kearney's desperation to marry was obvious to those around her.
- (C) Mrs. Kearney was criticized for treating potential suitors rudely.
- (D) Mrs. Kearney sometimes disapproved of the behavior of her would-be suitors.

7

In one of their numerous studies on invasive species, researcher Satu Ramula and her team in Finland planted a mixture of North American and Finnish garden lupines (*lupinus polyphyllus*) into Finnish soil to examine the impact of soil microbiota (bacteria that live in a plant's root system) on the plant's growth and development. One crop was planted into nutrient-poor soil that contained microbiota from local lupine populations, while the other crop was planted into nutrient-poor soil that contained no microbiota. Regardless of the country of origin, the crop of garden lupines in the soil containing microbiota not only grew much larger than the other crop's lupines, but also secreted a much stronger scent that is a natural deterrent to snails, the garden lupine's most common predator.

Which choice best states the main idea of the text?

- (A) It discusses the study by Ramula and her team to examine one possible reason that garden lupines are able to grow and thrive.
- (B) It details the study by Ramula and her team to critique other researchers for ignoring the impact of soil microbiota on garden lupines.
- (C) It argues that the effects of soil microbiota on garden lupines are often difficult to observe, as was the case with Ramula and her team's study.
- (D) It explains a significant threat to the environment caused by garden lupines that the study by Ramula and her team attempted to address.

8

Approximate Appearance Percentage for Three Blood Types in Four Regions

Region	O+	A+	B+
Asia	37%	28%	25%
Americas	55%	28%	9%
Africa	47%	27%	17%
Oceania	42%	33%	11%

Blood is critical to the function of the human body, as it delivers nutrients to vital organs, exchanges carbon dioxide and oxygen, and moves white blood cells through the circulatory system to fight infections. Blood is often categorized by one of eight blood types, which are referred to first by a letter or letter combination (A, B, AB, or O) and then a positive or negative marker (such as O+ or AB-). Researcher Anshool Deshmukh compiled blood type data from thousands of individuals and reorganized the data by region to better understand the distribution of the blood types O+, A+, and B+ by region. His research shows that type O+ blood has the highest frequency of occurrence in all four regions researched, while type B+ blood in turn has the lowest frequency of occurrence. For example, whereas the approximate appearance percentage for type O+ blood in Asia was 37%, the approximate appearance percentage for _____

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

- (A) type O+ blood in the Americas was 55%.
- (B) type B+ blood in Africa was 17%.
- (C) type O+ blood in Oceania was 42%.
- (D) type B+ blood in Asia was 25%.

9

"John G." is a 1918 short story by Katherine Mayo. In the story, the narrator describes a horse named John G. as dependable and well-behaved: _____

Which quotation from "John G." most effectively illustrates the claim?

- (A) "In the time that goes to saddling a horse, the detail rode into the storm, First Sergeant Price on John G., leading."
- (B) "Delicately, nervously, John G. set his feet, step by step, till he had reached the centre of the second plank."
- (C) "John G., on that diluvian night, was twenty-two years old, and still every whit as clean-limbed, alert, and plucky as his salad days had seen him."
- (D) "And John G. is a gentleman and a soldier, every inch of him. Horse-show judges have affixed their seal to the self-evident fact by the sign of the blue ribbon, but the best proof lies in the personal knowledge of "A" Troop, soundly built on twelve years' brotherhood."

10

Obedience Rates After Training for 3 Behaviors in Dogs, by Reinforcement Schedule

Behavior	Fixed ratio (FR)	Variable ratio (VR)	Fixed interval (FI)	Variable interval (VI)
Sitting on command	90%	71%	65%	60%
Fetching on command	86%	66%	54%	46%
Remaining quiet on command	78%	64%	63%	53%

Behavior modification through positive reinforcement, which is essentially the rewarding of desired behavior, can occur by means of four different reinforcement schedules: a fixed ratio (FR) schedule rewards behavior after a specific number of responses, a fixed interval (FI) schedule rewards behavior after a specific amount of time, a variable ratio (VR) schedule rewards behavior after a varying number of responses, and a variable interval (VI) schedule rewards behavior after a varying amount of time. An animal trainer compiled data that indicate that dogs will exhibit higher rates of obedience for a given behavior, such as sitting or fetching, when trained on a ratio schedule than when trained on an interval schedule for that same behavior. For example, whereas the average obedience rate for sitting after training on a VR schedule is 71%, the average obedience rate for _____

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

- (A) fetching after a VR schedule is 66%.
- (B) sitting after an FR schedule is 90%.
- (C) fetching after a VI schedule is 46%.
- (D) sitting after a VI schedule is 60%.

11



Mark for Review

Clostridium botulinum (*C. botulinum*) is a spore-forming food-borne bacterium that releases a highly dangerous neurotoxin, often causing serious illness or death. Boiling food for 10 minutes will kill *C. botulinum* in the unlikely event that it is present, but this will also destroy many beneficial vitamins and minerals. Since *C. botulinum* is almost exclusively found in home-canned goods, some experts recommend eating only commercially-produced cans of food, consequently _____

Which choice most logically completes the text?

- (A) avoiding the ingestion of *C. botulinum* without losing healthful nutrients.
- (B) making *C. botulinum* more vulnerable to the effects of boiling.
- (C) maximizing the many health benefits of *C. botulinum*.
- (D) enabling safe consumption of food tainted with *C. botulinum*.

Complete Sentences Drill

Answers can be found starting on page 244.

Time: 6 minutes

1

Mark for Review

The Bumblebee Conservation Trust's BeeWalk project is a citizen science project where volunteers collect information about bumblebees. Researchers combine the citizen science data with land cover data to learn where bumblebees live. If the particular types of habitats bumblebees live in are identified, _____. That is the question that researchers like Dr. Penelope Whitehorn are trying to answer.

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

- (A) conservation efforts could be more directed and successful?
- (B) conservation efforts could be more directed and successful.
- (C) could conservation efforts be more directed and successful?
- (D) could conservation efforts be more directed and successful.

2

Mark for Review

Egyptologist Howard Carter led the excavations that discovered the tomb of the pharaoh Tutankhamun in 1922. At this time, the Egyptians had recently gained some independence from the British. The timings of the discovery and these political changes led many to wonder _____

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

- (A) whether the Egyptians or the British should control access to the tomb?
- (B) should the Egyptians or the British control access to the tomb?
- (C) the Egyptians or the British to control access to the tomb.
- (D) whether the Egyptians or the British should control access to the tomb.

3



Mark for Review

The idea of the Great American Novel, a novel that considers the national character and essence of the United States, dates from the 1800s. In the early 1900s, many _____ that the idea of the Great American Novel was out of date, but since the 1920s, this concept has re-emerged among literary circles.

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

(A) believed

(B) believing

(C) to believe

(D) having believed

4



Mark for Review

As one of the highest-ranking women working for the government in her time, Mary Margaret O'Reilly served as the Assistant Director of the United States Bureau of the Mint from 1924 through 1938. When her mandatory retirement came due in 1935, President Franklin D. Roosevelt felt she was too valuable and _____ adjustments to allow her to serve for three additional years.

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

(A) having made

(B) making

(C) to make

(D) made

5



Mark for Review

Ada Yonath is a crystallographer from Israel who focused on the structure of ribosomes. She identified the mechanisms surrounding how antibiotics attack ribosomes and then _____ the Nobel Prize in Chemistry, alongside Thomas A. Steitz and Venkatraman Ramakrishnan.

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

(A) receives

(B) will receive

(C) receive

(D) received

Describing Phrases Drill

Answers can be found starting on page 261.

Time: 7 minutes

1

In 1965, farm workers participated in a labor strike against grape growers to protest exploitation of farm workers. The five-year strike was the first time many common strike tactics were used—boycotts, community organization, nonviolent resistance, and _____ and ultimately resulted in a victory for the farm workers.

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

(A) marches

(B) marches—

(C) marches;

(D) marches,

2

Israeli poet and _____ has used his studies of ancient religions in his works *The Song of Tahira*, an epic about a fictional society's religion and customs, and *The Kingdom*, a novel about the life of King David.

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

(A) novelist, Amir Or

(B) novelist Amir Or

(C) novelist, Amir Or,

(D) novelist Amir Or,

3

Ultrasound technology utilizes a form of sound waves and is used in medicine to generate images of areas of the human body. John J. _____ as the father of medical ultrasound, helped develop the technology with a focus on imaging cancerous cells.

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

(A) Wild, known

(B) Wild known

(C) Wild—known

(D) Wild (known

4

By activating multiple pathways in the brain at once, scientists hope to treat neurological disorders. For example, _____ may be able to be treated by simultaneously stimulating brain cells devoted to hearing and brain cells devoted to pain.

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

(A) tinnitus, or ringing in the ears

(B) tinnitus, or ringing in the ears,

(C) tinnitus or ringing in the ears,

(D) tinnitus or ringing in the ears

5

Mark for Review

Gronk, born Glugio Nicandro, is a Chicano _____ shows his work not only in galleries but also in public spaces, going so far as to distribute flyers featuring his work at bus stops.

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

- (A) artist,
- (B) artist
- (C) artist, which
- (D) artist who

6

Maki Kawai is a chemist from Japan who invented spatially selective single-molecule spectroscopy. She combined two forms of spectroscopy into this new _____ led to the detection of a novel reaction pathway on the superficial level of titanium dioxide.

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

- (A) method
- (B) method, which
- (C) method, that
- (D) method,

Linking Independent Clauses Drill

Answers can be found starting on page 276.

Time: 10 minutes

1

José Barreiro is a Cuban-American novelist who serves as an advocate for Indigenous culture and history for native communities in Guatemala, Cuba, and _____. Barreiro works with the Smithsonian Institution to ensure that the communities are recognized respectfully and accurately.

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

(A) Peru

(B) Peru,

(C) Peru and

(D) Peru.

2

There are many proteins that control the cell cycle and when cells grow and divide. Sir Paul Maxime Nurse discovered one of these proteins in yeast _____. He was awarded the Nobel Prize in Physiology or Medicine alongside Leland Hartwell and Tim Hunt for identifying a similar protein in human cells.

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

(A) cells and

(B) cells, and

(C) cells

(D) cells,

3

Mark for Review

Since many of his works are sardonic, some of Chinese author Yan Lianke's stories have been viewed as controversial. Many of his works question reality and utilize twisted and complex ____ these personas often display apprehension and concern about the living conditions in China.

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

(A) characters and

(B) characters

(C) characters;

(D) characters,

4

Mark for Review

Jenny Tung is an evolutionary anthropologist who studies the connections between genomics, health, and social experiences in different populations of primates and monkeys. While studying a population of Kenyan baboons, she found several factors that led to significantly shorter life ____ environmental conditions, such as droughts, isolation from other baboons, and lower social status within the community.

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

(A) spans:

(B) spans

(C) spans;

(D) spans,

5

Mark for Review

In 1984, Romanian poet and politician Ana Blandiana wrote her first protest poem against her country's communist ____ "Totul," which contrasted the government's official statements about life in Romania with her and others' lived experiences.

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

(A) government:

(B) government;

(C) government

(D) government.

6

Mark for Review

The oldest known surviving film is *Roundhay Garden Scene*, a short silent piece filmed by a French artist. The film has been preserved in multiple ____ it was copied onto glass plates from the original negative, and it was printed on 35 mm film.

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

(A) forms

(B) forms:

(C) forms, for example

(D) forms,

7

Mark for Review

Scientist Margaret S. Collins was the first African American female entomologist and was known as the “Termite Lady.” Starting in the 1970s, she began researching termites for the Smithsonian’s National Museum of Natural _____ in 1989, she discovered a new species of termite called *Neotermes luykxi* with her colleague David Nickle.

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

(A) History, then,

(B) History,

(C) History;

(D) History then,

8

Mark for Review

In languages, classifiers are used to describe a noun, such as how “cups” describes “coffee” in the phrase “three cups of coffee.” Unlike English, which only sometimes uses classifiers, Chinese languages use classifiers very frequently. Often, the specific classifier used is based on some quality of the _____ objects such as tables and paper use “zhāng,” whereas long, thin objects such as sticks and pens use “tiáo.”

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

(A) noun, for example, flat

(B) noun, for example. Flat

(C) noun. For example, flat

(D) noun for example flat

Dependent Clauses, Lists, and No Punctuation Drill

Answers can be found starting on page 294.

Time: 8 minutes

1

Stephen Pile's *The Book of Heroic Failures* describes a variety of instances of individual and group deficiency. For example, the chapter "Off Work" describes *English as She Is Spoke*, a guide to English conversation for Portuguese speakers. However, the phrases included in this book are typically inaccurate or _____ its author, Pedro Carolino, did not speak English and instead relied on two translation books: a Portuguese-to-French and a French-to-English.

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

(A) unidiomatic because

(B) unidiomatic,

(C) unidiomatic. Because

(D) unidiomatic: because

2

Throughout his life, Indian musician Ram Narayan brought attention to the instrument *sarangi* _____ playing major music festivals as a solo artist, recording albums, and eventually touring internationally.

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

(A) by:

(B) by—

(C) by,

(D) by

3

As suggested by the research of Lisa Espinosa of the Emotion Lab at the Karolinska Institute, the reason that people may have intrusive memories with neutral _____ is that the neutral content was paired with a negative experience in the past, such as seeing a picture of an umbrella while receiving a mild electric shock.

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

(A) content

(B) content;

(C) content:

(D) content,

4

Diane E. Benson is a creative writer and actress from Alaska who also ran for governor. She first ventured into politics in _____ she ran for office alongside Desa Jacobson, representing the first two Native women to share a ticket together.

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

(A) 2002, when

(B) 2002,

(C) 2002; when

(D) 2002

5

Scientists have discovered that the area of the human brain responsible for self-serving choices is separate from the area that is responsible for altruistic choices. The hope is that this research will help scientists discover the motivation behind philanthropic behaviors, for instance, donating to charities, such as animal _____ such as recycling plastic and other materials; and helping strangers with tasks, such as holding the door for someone to walk through.

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

(A) shelters; adopting environmental habits,

(B) shelters, adopting environmental habits;

(C) shelters, adopting environmental habits,

(D) shelters; adopting environmental habits;

6

The chemical composition of Jupiter's atmosphere is relatively well-known due to the observations made by the Galileo atmospheric probe in 1995. The ratios of helium to hydrogen and phosphorus to hydrogen in Jupiter's atmosphere are relatively close to the same ratios for the Sun. However, for other elements, Jupiter's atmosphere has a much greater abundance: the ratio of nitrogen to hydrogen in Jupiter is about 3.5 times as great as that of the Sun; carbon to _____ and krypton to hydrogen, 2.7 times as great.

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

(A) hydrogen 2.9 times as great;

(B) hydrogen 2.9 times as great,

(C) hydrogen, 2.9 times as great,

(D) hydrogen, 2.9 times as great;

Grammar Drill

Answers can be found starting on page 317.

Time: 12 minutes

1

Several dwarf planets, including Pluto, _____ found in the Kuiper Belt, a region of space beyond Neptune's orbit. The Kuiper Belt contains many remnants from the solar system's early history and was first explored in 2015 by NASA's New Horizons mission.

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

(A) has been

(B) are

(C) is

(D) was

2

In 1991, American biologists Linda B. Buck and Richard Axel published a landmark paper on the olfactory system. The paper detailed the discovery of the location of odor receptors in the nose and led to a more comprehensive understanding of how humans smell. In 2004, _____ received the Nobel Prize in Physiology or Medicine for that research.

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

(A) we

(B) one

(C) they

(D) some

3

Clifford Possum Tjapaltjarri is one of the most recognized and well-known Australian artists despite some confusion over the details of his life and the exact date of his death. His works are often predicted to raise large amounts at auctions and are often purchased by Australian galleries. The _____ may have been supported by the Australian government to avoid sending such important works internationally.

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

(A) galleries' purchases

(B) galleries' purchase's

(C) galleries purchases

(D) galleries purchase's

4

Oglala Lakota poet, writer, and activist Layli Long Soldier published her first small poetry book, *Chromosomory*, in 2010, and her first full-length volume of poetry, *Whereas*, in 2017. The poems in *Whereas* _____ the historical experience of native tribes in the U.S. as well as Soldier's personal experiences and relationships.

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

(A) explores

(B) has explored

(C) is exploring

(D) explore

5

"Kilroy was here" is a meme that gained popularity in graffiti art during World War II. The origin of the meme is debated, but some theories claim that German intelligence agents found the meme on American weaponry and therefore _____ Kilroy was a high-level American spy.

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

(A) had believed

(B) believed

(C) would believe

(D) were believing

6

Cockatoos in Australia are experts at opening trash bins. The white bird can grab the lid of the bin with _____ beak and push toward the hinge until the lid flips open. People have used various tools, such as bricks or rubber bands, to keep the bins closed, yet the birds are undeterred by these obstacles.

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

(A) their

(B) they're

(C) its

(D) it's

7

In 1977, Emily Kame Kngwarreye, an Aboriginal Australian artist, learned an art technique from Indonesia called batik. Wanting to support other women interested in creating their own art, she founded the Utopia Women's Batik Group with other Aboriginal artists in 1978. The Utopia Women's Batik Group provided a space where the development of _____ was supported.

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

- (A) artists' individual styles'
- (B) artist's individual styles
- (C) artists individual styles
- (D) artists' individual styles

8

Kim Hyesoon is a poet from South Korea who currently teaches creative writing at an art institute in Seoul. Hoping to align with South Korea's strong movement of female poets in the 1990s, _____ and rose to fame as an author of numerous works.

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

- (A) the works written by Hyesoon used imagery and experimental language
- (B) Hyesoon used imagery and experimental language to create her pieces
- (C) numerous works written by Hyesoon used imagery and experimental language
- (D) there was a poet, Hyesoon, who used imagery and experimental language

9

Researchers found that some streaked shearwaters, a type of seabird, survive typhoons by flying into the storms. When stuck between land and a typhoon, the birds will fly toward the eye of the storm, potentially reducing _____ risk of crashing into land or hitting debris.

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

- (A) its
- (B) their
- (C) it's
- (D) they're

10

NASA originally equipped astronauts with pencils to write in space, as ballpoint pens wouldn't work without gravity; however, pencils could smear, break, or catch fire. NASA eventually abandoned its own development of a space pen due to costs. However, a private company, the Fischer Pen Company, was working on its own space pen. Developed by Paul Fischer, _____

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

- (A) the Fischer Space Pen's testing and approval by NASA led to its use in Project Apollo.
- (B) Project Apollo used the Fischer Space Pen after it was tested and approved by NASA.
- (C) NASA tested and approved the Fischer Space Pen for use in Project Apollo.
- (D) the Fischer Space Pen was tested and approved by NASA for use in Project Apollo.

Rhetoric Drill

Answers can be found starting on page 335.

Time: 14 minutes

1

People who are interested in reducing food waste are using banana peels in unique ways. _____ banana peels can be dried and ground into flour and used in baking. Researchers found that baking cookies with banana peel flour led to more healthful cookies.

Which choice completes the text with the most logical transition?

(A) For instance,

(B) Fortunately,

(C) Still,

(D) Moreover,

2

During the Apollo 14 mission in 1971, astronaut Stu Roosa carried 500 tree seeds into lunar orbit. Once back on Earth, the seeds were germinated and the majority of the trees were successfully planted around the world. The locations of the moon trees were not recorded, _____ until a renewed interest in them in 1996 led to the creation of a database of the rediscovered moon trees and their locations.

Which choice completes the text with the most logical transition?

(A) moreover,

(B) for instance,

(C) still,

(D) however,

3

Emmett Chappelle, a scientist who started working with NASA in the 1960s, discovered a way to detect extraterrestrial life. He found that mixing two chemicals found in fireflies, insects known for their bioluminescence, with adenosine triphosphate (ATP) produces light. ATP is present in all living organisms. _____ the presence of life can be confirmed if light is produced when the two firefly chemicals are applied to a sample.

Which choice completes the text with the most logical transition?

(A) Still,

(B) Therefore,

(C) Nevertheless,

(D) Though,

4

Larissa Behrendt's novel *After Story* tells the tale of Indigenous lawyer Jasmine and her mother Della as they take a literary tour of England. During their tour, a girl disappears, echoing the disappearance of Jasmine's older sister twenty-five years earlier. _____ Jasmine reexamines her past, and family secrets come to light.

Which choice completes the text with the most logical transition?

(A) Consequently,

(B) In conclusion,

(C) Similarly,

(D) Despite this,

5

Although street art is sometimes treated as commonplace graffiti or vandalism, Bright Tetteh Ackwerh has used the medium to represent his satirical views on religious and political issues in Ghana. _____ his goal is to provoke spirited conversation about these topics after people view his works.

Which choice completes the text with the most logical transition?

(A) As a rule,

(B) Conversely,

(C) Accordingly,

(D) Subsequently,

6

Writing & Language

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

- Ferrofluid is a liquid created when magnetic nanoparticles are dissolved in a solvent.
- The shape of ferrofluid can be manipulated by magnetic fields.
- Sachiko Kodama is a Japanese artist who makes liquid sculptures with ferrofluid.
- Her sculptures include *Pulsate* and *Protrude, Flow*.

The student wants to introduce Sachiko Kodama and what her sculptures are made of. Which choice most effectively uses relevant information from the notes to accomplish this goal?

(A) *Pulsate* and *Protrude, Flow* by Sachiko Kodama are made with ferrofluid, a type of liquid created when magnetic nanoparticles are dissolved in a solvent.

(B) Sachiko Kodama is a Japanese artist who uses magnetic fields to change the shape of ferrofluid to create her sculptures.

(C) Sachiko Kodama's ferrofluid sculptures include *Pulsate* and *Protrude, Flow*.

(D) Ferrofluid is a magnetic liquid that can be manipulated into sculptures.

7

Writing & Language

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

- Emmanuelle Charpentier, born in 1968, is a French scientist who studies microbiology, biochemistry, and genetics.
- Jennifer Doudna, born in 1964, is an American biochemist who studies biochemistry and molecular biology.
- Charpentier and Doudna met in 2011.
- They worked together and discovered that CRISPR-Cas9 technology could be used for genome editing in 2012.
- In 2020, they were both awarded the Nobel Prize in Chemistry.

The student wants to emphasize the results of Charpentier's and Doudna's working relationship. Which choice most effectively uses relevant information from the notes to accomplish this goal?

(A) Charpentier and Doudna both study biochemistry.

(B) Charpentier and Doudna met in 2011 and were awarded the Nobel Prize in 2020.

(C) Charpentier and Doudna discovered how to use CRISPR-Cas9 for genome editing and were awarded the Nobel Prize in 2020.

(D) Charpentier studies genetics, and Doudna studies molecular biology.

8

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

- Kolkata, also known as Calcutta, is in eastern India.
- The Kolkata Metro System was initially planned in the 1920s but construction didn't start until the 1970s.
- The Kolkata Metro System is a rapid transit system featuring two train lines.
- The Blue Line runs north-south, opened in 1984, and is 31.36 km long.
- The Green Line runs east-west, opened in 2020, and is 9.1 km long.

The student wants to compare the dates of opening and lengths of the lines of the Kolkata Metro System to an audience familiar with the Kolkata Metro System. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- (A) The Kolkata Metro System opened its second line—the 9.1 km-long Green Line—in 2020.
- (B) The 31.36-km-long Blue Line opened in 1984, whereas the 9.1-km-long Green Line opened in 2020.
- (C) The Kolkata Metro System, which began construction in the 1970s, includes the 31.36-km-long Blue Line, which opened in 1984, and the 9.1 km-long Green Line, which opened in 2020.
- (D) Kolkata, also known as Calcutta, is located in eastern India and began construction on the Kolkata Metro System in the 1970s.

9

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

- Various vertebrate species, including honeybees, have the ability to judge numbers.
- Researchers were curious about whether bees organize numbers spatially from left to right, from smallest to largest.
- Humans organize numbers spatially from left to right, from smallest to largest.
- Martin Giurfa and his team trained bees to connect specific numbers with a sucrose reward.
- The bees organized the numbers from left to right based on magnitude.

The student wants to emphasize the aim of the research study. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- (A) The bees in the study by Martin Giurfa and his team were trained with sucrose rewards.
- (B) Martin Giurfa and his team wanted to see whether bees organize numbers spatially from left to right, similar to how humans organize numbers.
- (C) Various vertebrate species, such as humans and honeybees, organize numbers spatially from left to right.
- (D) Martin Giurfa and his team found that bees did organize numbers in a similar way to how humans do.

10

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

- Wolfram's red salt is an inorganic compound.
- Inorganic chemists in the 20th century were interested in Wolfram's red salt because it has a deep red color but its components are colorless.
- In 1935, inorganic chemists H. D. K. Drew and H. J. Tress hypothesized that the red color was due to the presence of platinum (3+) ions.
- In 1936, inorganic chemist K. A. Jensen proved that Wolfram's red salt did not have platinum (3+) ions.
- In 1956, inorganic chemists Yamada Shoichiro and Tsuchida Ryutaro discovered that the red color was due to chains of platinum (2+) and platinum (4+) ions.

The student wants to emphasize a similarity among the research to an audience familiar with Wolfram's red salt. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- (A) 20th-century research into Wolfram's red salt, a deep red inorganic compound made up of colorless components, focused on the presence of various platinum ions.
- (B) While Drew and Tress hypothesized that Wolfram's red salt was red due to platinum (3+) ions, Jensen proved that Wolfram's red salt did not have platinum (3+) ions.
- (C) 20th-century hypotheses and research into the color of Wolfram's red salt focused on the presence of various platinum ions.
- (D) Wolfram's red salt is not deep red due to the presence of platinum (3+) ions, as Drew and Tress hypothesized, but rather due to chains of platinum (2+) and platinum (4+) ions, as discovered by Shoichiro and Ryutaro.