

## MODULE 1

1. Building additional road capacity may seem like an obvious solution to traffic congestion, but numerous studies have cast doubt on the \_\_\_\_\_ of that approach. Not only does additional road capacity often fail to relieve congestion, but it can also make traffic worse by encouraging more people to drive.

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

- A. Efficacy
  - B. Aesthetics
  - C. Originality
  - D. Popularity
2. Though many \_\_\_\_\_ studies of the effect of altitude on blood chemistry focus on people who live above sea level, researchers Suleiman A. Al- Sweedan and Moath Alhaj recently chose the novel path of focusing on people who live below sea level, in locations such as the California towns of Bombay Beach and Imperial.

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

- A. Eccentric
  - B. Traditional
  - C. Meager
  - D. Random
3. Whatever the general attitude toward Spike Lee's 1992 film *Malcolm X* and Carl Franklin's 1995 film *Devil in a Blue Dress* when they were initially released, both films now tend to be regarded quite \_\_\_\_\_. In 2018, for example, critics for the *New York Times* praised the former as "electrifying" and the latter as "picture-perfect."

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

- A. Strangely
  - B. Neutrally
  - C. Skeptically
  - D. Favorably
4. At the turn of the twentieth century, Black residents of Richmond, Virginia, had few formal options for banking and other financial services. To \_\_\_\_\_ this situation, Maggie Lena Walker chartered the St. Luke Penny Savings Bank in 1903. The bank went on to provide home loans and savings opportunities to thousands of Black families over the following decades.

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

- A. Retain
- B. Highlight
- C. Prolong
- D. Rectify

5. The Gleaners, painted in the realist style by Jean-François Millet, depicts peasants picking stray wheat from a field after the harvest. The realists' emphasis on accurately portraying the experiences of average working people was largely a rejection of the romantic style evident in many paintings by Horace Vernet, which instead \_\_\_\_\_ their subjects' beauty or heroism while hiding all imperfection.

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

- A. Counteract
- B. Obscure
- C. Rectify
- D. Accentuate

6. The following text is from Maria Amparo Ruiz de Burton's 1885 novel *The Squatter and the Don*. In the novel, Clarence and Mercedes develop a romantic relationship.

Mercedes, being not quite seventeen, her grief at parting from Clarence was wild, vehement and all-absorbing. But she had been trained to obedience, and her battles with the spirit always took place after she carefully locked her bedroom door. Then Clarence was wildly apostrophized, and a torrent of tears relieved the overcharged, aching heart.

Which choice best states the main purpose of the text?

- A. It emphasizes Mercedes's extreme insecurity
- B. It suggests that the magnitude of Mercedes's feelings are unusual for her age
  - a. It provides background explaining why Clarence has left Mercedes
- C. It conveys how Mercedes handles her intense feelings about being separated from Clarence

7. In 2023 literary scholar Jeremy Douglass cautioned technology investors and enthusiasts who predict conventional books' ultimate displacement by newer forms of media. Douglass observed that the concept of an "interactive" text is much older than technologists assume, extending back to the first time readers scratched notes into a text's margins. In addition, newer media, such as video games, haven't replaced older forms of entertainment, such as comic books, but rather exist alongside them. Douglass believes that rather than supplanting books, technology is simply making new forms of expression possible.

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

- A. It explains the basis for the claim made by the technologists mentioned in the text.
- B. It suggests that academics are better suited than investors to see the potential uses of contemporary interactive texts.
- C. It challenges the stance of the investors and enthusiasts who are mentioned earlier in the text.
- D. It provides a historical anecdote about the technological challenges involved in reading the earliest interactive texts.

8. Businesses selling clothing and other fashion items face obstacles in trying to forecast how much product to order: tastes and styles change quickly, while manufacturing clothing takes a significant amount of time. Researchers Youran Fu and Marshall Fisher have found that combining sellers' own data with information gathered from social media can dramatically improve the accuracy of such forecasts by 24 to 57 percent in the cases they directly studied. Better predictions mean demand is easier to meet without retailers becoming overstocked.

Which choice best states the main idea of the text?

- A. Becoming overstocked is the main preoccupation of sellers trying to forecast demand for fashion items.
  - B. Social media is revolutionizing how both sellers and researchers view the fashion industry.
  - C. Using multiple data sources can enhance the ability of sellers in the fashion industry to anticipate demand.
  - D. Retailers can use their own data to accurately predict how tastes and styles are evolving.
9. Women like Grace Murray Hopper made important early contributions to the history of US cryptology, a field concerned with secure data communication and storage. Hopper was a US naval admiral and computer scientist who coined the term "debugging" and invented the first compiler program for translating computer code. In this way, Hopper and others like her helped make it possible for more women-such as Anna Lysyanskaya, who currently works in and teaches digital cryptography to enter the field of cryptology.

According to the text, what is one similarity between Hopper and Lysyanskaya?

- A. They both founded organizations that encourage women to pursue careers in cryptology.
  - B. They both have contributed to the field of cryptology.
  - C. They both have worked in the field of history.
  - D. They both have argued that more US schools should teach the history of cryptology
10. The following text is from Jerome K. Jerome's 1889 novel *Three Men in a Boat (To Say Nothing of the Dog)*.

The narrator and two friends are taking a boat down the River Thames in England.

In a boat, I have always noticed that it is the fixed idea of each member of the crew that he is doing everything. Harris's notion was, that it was he alone who had been working, and that both George and I had been imposing upon him. George, on the other hand, ridiculed the idea of Harris's having done anything more than eat and sleep, and had a cast-iron opinion that it was he-George himself-who had done all the labour worth speaking of.

Which choice best states the main idea of the text?

- A. The narrator recognizes that Harris's and George's attitudes are typical of how crew members view their own contributions on boats.
- B. The narrator has recognized that Harris spends most of his time eating and sleeping.
- C. Everyone in the group has been given tasks to do, but the narrator hasn't been willing to complete this.
- D. The amount of work that needs to be done on the boat is likely more than the narrator, George, and Harris can handle.

#### 11. Total Areas of Five Tribal Nations around the United States

<b>Tribal nation</b>	<b>Location</b>	<b>Area (square miles)</b>
Crow Tribe	Monata	3,606
White Earth Nation	Minnesota	1,167
Tohono O'odham Nation	Arizona	4,453
Choctaw	Oklahoma	10,864
Yakama Nation	Washington	2,188

In terms of total area, the Choctaw Nation is one of the largest tribal nations in the United States. It covers 10,864 square miles in what is now southeastern Oklahoma. In comparison, the total area of White Earth Nation in Minnesota is only \_\_\_\_\_

- A. 1,167 square miles
- B. 4,453 square miles
- C. 3,606 square miles
- D. 2,188 square miles

#### 12. Pyramids in Egypt and the Americas

<b>Pyramid</b>	<b>Country</b>	<b>Height (meters)</b>	<b>Age (years before present)</b>
The Great Pyramid	Mexico	33	2,050 to 2,400
The Pyramid of Djoser	Egypt	60	4,600 to 4,700
The Pyramid of Sahure	Egypt	47	4,400 to 4,500
El Castillo	Belize	40	1,100 to 1,400

A student is writing an essay about four pyramids for a history class and wants to note how long ago each pyramid was built. Consulting the table, the student finds that el Castillo was built \_\_\_\_\_

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

- A. 4,400 to 4,500 years ago
- B. 4,600 to 4,700 years ago
- C. 1,100 to 1,400 years ago
- D. 2,050 to 2,400 years ago

13. "A Pair of Silk Stockings" is an 1897 short story written by Kate Chopin. In describing the character of Mrs. Sommers, Chopin emphasizes the uniqueness of Mrs. Sommers's perspective:

\_\_\_\_\_

Which quotation from "A Pair of Silk Stockings" most effectively illustrates the claim?

- A. "For a day or two she walked about apparently in a dreamy state, but really absorbed in speculation and calculation."
- B. "She had no time, no second of time to devote to the past. The needs of the present absorbed her faculty."
- C. "It is safe to say there was no one present who bore quite the attitude which Mrs. Sommers did to her surroundings. She gathered in the whole stage and players and people in one wide impression, and absorbed it and enjoyed it."
- D. "She wanted an excellent and stylish fit, she told the young fellow who served her, and she did not mind the difference of a dollar or two more in the price so long as she got what she desired."

14. Properties of Select Rotating Radio Transients

Name	Right ascension (hours)	Period (seconds)	Frequency (hertz)
J0545-03	5:45	1.074	0.931
J1654-2335	16:54:03	0.545	1.834
J0103+54	1:03:37	0.354	2.822
J0121+53	1:21	2.725	0.367
J0614-03	6:15	0.136	7.353

A student is researching rotating radio transients (RRATs), a subclass of pulsar stars characterized by short pulses of radio waves. The time between consecutive pulses of an RRAT is referred to as a period. Looking at the table, the student determines that \_\_\_\_\_.

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

- A. J0545-03 and J0121+53 have the same amount of time between consecutive pulses.
- B. J0103+54 and J0121+53 both have more than one second of time between consecutive pulses.
- C. J0614-03 has the shortest amount of time between consecutive pulses of all the RRATs in the table.
- D. J1654-2335 has the longest amount of time between consecutive pulses of all the RRATs in the table.

15. Tarawa, with a population of roughly 30,000 people, \_\_\_\_\_ home to an impressive 29 percent of Kiribati's total population.

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

- A. are
- B. are being
- C. is
- D. have been

16. Featuring jagged peaks of black ink surrounded by hazy swirls of blue and green paint, Zhang Daqian's 1983 painting *Panorama of Mount Lu* is inspired by the tradition of *qinglü shanshui*, a type of Chinese landscape painting \_\_\_\_\_ by the use of blue and green hues to depict ethereal, otherworldly landscapes.

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

- A. characterized
- B. is characterized
- C. has been characterized
- D. will be characterized

17. Nebraska governor \_\_\_\_\_ the first woman to serve in that role in the state's history took office on January 9, 1987.

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

- A. Kay A. Orr-
- B. Kay A. Orr,
- C. Kay A. Orr
- D. Kay A. Orr:

18. In her work, Bay of Quinte Mohawk artist Hannah Claus uses suspended sculptural installations to explore themes such as time, place, and nature. The Eiteljorg Museum counts pieces by Claus in \_\_\_\_\_ impressive collection of Native artworks.

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

- A. her
- B. it's
- C. its
- D. their

19. Sociologist Todd Gitlin co-opted the term "recombinant," normally used in reference to genetic engineering, to describe serialized television shows of the 1980s. Gitlin's use of the term referenced TV studios' practice of repackaging successful narrative formulas as new \_\_\_\_\_ even shows that varied only slightly from other shows still attracted sizeable audiences.

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

- A. content, in that era,
- B. content in that era,
- C. content, in that era
- D. content; in that era,

20. Kati Horna's 1938 photograph "Stairway to the Cathedral" is collected in the 2021 exhibition *The New-Woman Behind the \_\_\_\_\_* works by artists from over twenty countries, the exhibition showcases the diverse, innovative, often aesthetically daring work of female photographers from the 1920s through the 1950s.

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

- A. *Camera*, featuring
- B. *Camera*. Featuring
- C. *Camera* featuring
- D. *Camera* and featuring

21. Australia ratified the Outer Space Treaty, an international agreement with over 100 signing nations that acts as the foundation for the laws of space, on January 27, 1967. Colombia signed the treaty; \_\_\_\_\_ it has yet to officially ratify it.

Which choice completes the text with the most logical transition?

- A. however,
- B. similarly,
- C. specifically,
- D. for example,

22. In her 2012 analysis of tree rings from Japan's Yaku Island, cosmic ray physicist Fusa Miyake noted an anomalous carbon-14 spike dating to 774- 775 CE, indicating that a massive burst of radiation reached Earth during that time. \_\_\_\_\_ this unprecedented radiocarbon surge was dubbed a "Miyake event" in honor of its discoverer.

Which choice completes the text with the most logical transition?

- A. Fittingly,
- B. Similarly,
- C. However,
- D. In other words,

23. The Coastal Virginia Offshore Wind project is anticipated to generate 2.6 gigawatts of energy, enough to power almost one million homes. As its name indicates, the project—currently in development—consists of wind turbines located off the Virginia coast. \_\_\_\_\_ the project plan calls for 176 large turbines to be placed at a site 27 miles east of Virginia Beach.

Which choice completes the text with the most logical transition?

- A. In conclusion,

- B. In contrast,
- C. As a result,
- D. To be exact,

24.

- Minor planets are astronomical objects that orbit the Sun but are neither planets nor comets.
- Astronomer Jane Luu has discovered many minor planets in her career
- Alongside colleague David C. Jewitt, she discovered the minor planet (15836) 1995 DA2 on February 24, 1995.
- Alongside colleagues David C. Jewitt, Chadwick Trujillo, and K. Berney, she discovered the minor planet (24952) 1997 QJ4 on August 28, 1997.

Which choice most effectively uses information from the given sentences to emphasize the discovery of (15836) 1995 DA2 to an audience already familiar with Jane Luu?

- A. First there was the discovery of (15836) 1995 DA2 on February 24, 1995, and then on August 28, 1997, Jane Luu discovered yet another minor planet with the help of her colleagues David C. Jewitt, Chadwick Trujillo, and K. Berney.
- B. Astronomer Jane Luu helped discover not only the minor planet (15836) 1995 DA2 on February 24, 1995, but also (24952) 1997 QJ4 on August 28, 1997.
- C. Jane Luu is an astronomer famous for her discovery of many minor planets in our solar system, including (15836) 1995 DA2.
- D. On February 24, 1995, Jane Luu and her colleague David C. Jewitt made the exciting discovery of the minor planet (15836) 1995 DA2.

25.

- Soo-Bong Kim is a South Korean particle physicist.
- Particle physicists study subatomic particles.
- Neutrinos are some of the least understood subatomic particles.
- Kim is known for his research on neutrino oscillations

Which choice most effectively uses information from the given sentences to specify what type of neutrino research Kim is known for?

- A. Neutrinos are a type of subatomic particle that particle physicists are still trying to understand.
- B. Soo-Bong Kim, whose research involves particle physics, is from South Korea.
- C. In the ongoing pursuit to better understand these subatomic particles, particle physicist Soo-Bong Kim is known for his research on neutrino oscillations.
- D. One scientist who has worked to advance our understanding of neutrinos is the South Korean particle physicist Soo-Bong Kim.

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

- The Museu de les Ciències Príncipe Felipe is in Valencia, Spain.
- It is home to a Foucault pendulum.
- Vasile Alecsandri National College is in Galați, Romania.
- It is home to a Foucault pendulum.



- A Foucault pendulum dangles from a fixed point that ensures the swing path of the pendulum doesn't change.
- To an observer, the swing path of a Foucault pendulum appears to change over time because Earth rotates beneath it.

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

- A. Because Earth rotates beneath it, the swing path of the Foucault pendulum at the Museu de les Ciències Príncipe Felipe appears to change over time.
- B. The Museu de les Ciències Príncipe Felipe, which is home to a Foucault pendulum, is in Spain, not Romania.
- C. The Museu de les Ciències Príncipe Felipe in Valencia, Spain, and Vasile Alecsandri National College in Galați, Romania, both house Foucault pendulums.
- D. One Foucault pendulum is in Spain, and the other is in Romania.

27.

- The Music by Black Composers (MBC) project aims to inspire
- aspiring music students by archiving and sharing information about the music of Black classical composers.
- William Benjamin Cooper is a Black classical music composer included in MBC's Historic Composers Directory.
- He was born in 1920 and died in 1993.

Which choice most effectively uses information from the given sentences to set up a discussion of Cooper's career for an audience already familiar with the MBC project?

- A. While William Benjamin Cooper is considered a great composer, there are many more such composers included in the MBC Historic Composers Directory.
- B. The MBC project's Historic Composers Directory highlights Black classical composers of the past, such as William Benjamin Cooper (1920-1993), in order to inspire music students to become the classical composers of the future.
- C. Among the many talented figures included in the MBC project is classical music composer William Benjamin Cooper.
- D. Born in 1920, William Benjamin Cooper passed away in 1993, according to the MBC project.