

SAT Prep Test 1—Reading and Writing

Module 1

Turn to Section 1 of your answer sheet to answer the questions in this section.

DIRECTIONS

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

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

1  Mark for Review

The Chilean volcano Calabozos is located in _____ area. Therefore, the risk of loss of human life in the event of an eruption is minimal.

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

- (A) a hazardous
- (B) an active
- (C) a mountainous
- (D) a remote

2  Mark for Review

Contemporaries of American modernist poet H.D. focused only on her important contributions to the Imagist movement in the 1920s, taking _____ view of her work. However, she wrote in a variety of forms and genres, from short, lyrical works to complex, book-length poems.

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

- (A) an expansive
- (B) a limited
- (C) an imaginative
- (D) a complicated

CONTINUE 

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3

Mark for Review

Since the 1950s, scientists have known that rapid eye movement, or REM, occurs when someone is sleeping. Previous studies attempting to determine the meaning of these eye movements have been unsuccessful in part because these studies relied on human subjects recalling the content of their dreams. A recent study by physiologists Yuta Senzai and Massimo Scanziani has avoided this issue by studying dreaming mice instead. Their results suggest that REM is correlated to changes in direction during the dream.

Which choice best describes the function of the second sentence in the overall structure of the text?

- (A) It names a problem in the approach taken by Senzai and Scanziani.
- (B) It introduces the difficulty that the study by Senzai and Scanziani was designed to bypass.
- (C) It presents the findings of studies done prior to the study by Senzai and Scanziani.
- (D) It clarifies how others studying REM sleep interpret the study by Senzai and Scanziani.

4

Mark for Review

Electroreception is the ability of an animal to sense the flow of electricity around it by using specialized organs known as electroreceptors. Most species known to use electroreception are fish, including many sharks, elephant fishes, and eels. However, electroreception is not limited to fish. Monotremes, a group of mammals that includes the platypus and some echidnas, have electroreceptors on or near their mouths to help locate prey. There is also some evidence that bees can detect static electricity on flowers.

Which choice best describes the function of the third sentence in the overall structure of the text?

- (A) It generalizes the phenomenon discussed beyond fishes.
- (B) It offers another explanation of electroreception that is different from the explanation of how electroreception is used by fishes.
- (C) It provides more examples of animals with electroreception.
- (D) It explains how electroreception evolved in monotremes and bees.

CONTINUE

5 Mark for Review

Text 1

An animal is said to have a theory of mind when it is able to act according to the mental states of other individuals. Psychologists David Premack and Guy Woodruff studied whether chimpanzees have such a theory of mind. They showed videos of human actors struggling with various problems. The chimpanzees were able to select photographs that showed the best tool to solve each actor's problem.

Text 2

Biologist Daniel J. Povinelli and psychologists Kurt E. Nelson and Sarah T. Boysen have argued that previous research into whether chimpanzees have a theory of mind have not adequately addressed alternative explanations for the chimpanzees' behaviors. Specifically, it may be the case that chimpanzees are following learned behaviors in a known environment, rather than applying a theory of mind in a novel situation.

Based on the texts, how would Povinelli, Nelson, and Boysen (Text 2) most likely respond to Premack and Woodruff (Text 1)?

- (A) They would argue that nonhuman primates other than chimpanzees, such as baboons and gorillas, may also have a theory of mind.
- (B) They would argue that the chimpanzees would be able to solve the problems themselves without referencing the photographs by struggling with the situation themselves and eventually determining the correct solution.
- (C) They would encourage Premack and Woodruff to show the same videos and photographs to other nonhuman primates and compare the other nonhuman primates' reactions to the chimpanzees' reactions.
- (D) They would suggest that placing the chimpanzee subjects in novel environments, such as rooms distinct from the chimpanzees' regular enclosures, may help better ascertain whether chimpanzees have a theory of mind.

6 Mark for Review

The following text is from Oscar Wilde's 1890 novel *The Picture of Dorian Gray*. Dorian is seeing his portrait, painted by Basil Hallward, for the first time.

Dorian made no answer, but passed listlessly in front of his picture and turned towards it. When he saw it he drew back, and his cheeks flushed for a moment with pleasure. A look of joy came into his eyes, as if he had recognized himself for the first time. He stood there motionless and in wonder, dimly conscious that Hallward was speaking to him, but not catching the meaning of his words. The sense of his own beauty came on him like a revelation. He had never felt it before.

According to the text, what is true about Dorian?

- (A) Dorian is distracted by the beauty of the painting.
- (B) Dorian believes that what Hallward is saying is unimportant.
- (C) Dorian does not recognize his own image.
- (D) Dorian is prone to embarrassment.

CONTINUE

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7

Mark for Review

The following text is from Frederick Marryat's 1847 novel *The Children of the New Forest*.

The old forester lay awake the whole of this night, reflecting how he should act relative to the children; he felt the great responsibility that he had incurred, and was alarmed when he considered what might be the consequences if his days were shortened. What would become of them—living in so sequestered a spot that few knew even of its existence—totally shut out from the world, and left to their own resources?

Based on the text, what is true about the children?

- (A) They are isolated from people other than the old forester.
- (B) They are completely unable to take care of themselves.
- (C) The old forester is resentful of having to take care of them.
- (D) They attempt to help the old forester with his responsibilities.

8

Mark for Review

The following text is Baron George Gordon Byron's poem "Answer to _____'s Professions of Affection," written around 1814. The poem is addressed to an unknown person.

In hearts like thine ne'er may I hold a place
Till I renounce all sense, all shame, all grace—
That seat,—like seats, the bane of Freedom's realm,
But dear to those presiding at the helm—
Is basely purchased, not with gold alone;
Add Conscience, too, this bargain is your own—
'Tis thine to offer with corrupting art
The rotten borough of the human heart.

What is the main idea of the text?

- (A) The speaker is expressing disapproval towards the unknown person.
- (B) The speaker is unimportant to the unknown person.
- (C) The speaker is thinking of purchasing a seat.
- (D) The speaker holds a place in the heart of the unknown person.

CONTINUE

9

Mark for Review

Sepsis is a life-threatening condition caused by the body's response to an infection. These infections are typically bacterial but may be fungal, parasitic, or viral. The body's response to these infections leads to increased inflammation and organ damage. This damage, in turn, results in a weakened immune system, which increases the likelihood of reinfection. In a recent study, a team of doctors and pharmacologists led by Shubham Soni claims that administering ketone esters can reduce inflammation and immune system weakening caused by sepsis.

Which finding from the team led by Soni, if true, would most directly support its claim?

- (A) Patients with sepsis who were administered ketone esters had fewer signs of inflammation and less organ damage than those administered standard antibiotics.
- (B) When administered, ketone esters are known to increase blood ketone levels, which in turn are a source of energy for the brain.
- (C) Both those patients administered ketone esters and those administered standard antibiotics did not have reduced inflammation when treated with medication intended to reduce fever.
- (D) Those sepsis patients administered ketone esters had reduced inflammation but greater organ damage than those administered standard antibiotics.

10

Mark for Review

Horses' Responses to Novel Objects
Based on Number of Handlers

	Only One Handler	Multiple Handlers
No reluctance	45%	25%
Mild reluctance	42%	49%
Strong reluctance	13%	26%

Horses have been domesticated for thousands of years. Therefore, they show great sensitivity to the emotions of humans. Biologist Océane Liehrmann from the University of Turku, Finland, led a team of researchers in a study of horses to determine the effect of the number of handlers (either only one person or multiple people) on the horses' responses to a novel object. The researchers determined that horses with only one handler were less reluctant to interact with the novel object than were horses with multiple handlers. For example, 45% of horses with only one handler had no reluctance when interacting with a novel object while

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

- (A) 13% of horses with only one handler had strong reluctance.
- (B) 25% of horses with multiple handlers had no reluctance.
- (C) 26% of horses with multiple handlers had strong reluctance.
- (D) 42% of horses with only one handler had mild reluctance.


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11

Mark for Review

Indian Lok Sabha Results by Percentage of Seats Won, 1999–2019

Party	1999	2004	2009	2014	2019
Bharatiya Janata Party	33%	25%	21%	52%	56%
Indian National Congress	21%	27%	38%	8%	10%
Communist Party of India (Marxist)	6%	8%	4%	7%	4%
Other	40%	40%	37%	33%	30%

India is the largest democracy in the world, with over 614 million people voting in the 2019 election for the Lok Sabha, the parliament of the federal government. In the early years of Indian independence, from the first election in 1951–52 through the eighth Lok Sabha in 1984, each election resulted in one party winning the majority of seats. However, starting with the 1989 election, the party with the largest number of seats failed to win more than half of the total seats. This trend was eventually broken by the Bharatiya Janata Party, which _____

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

- (A) went from holding the second most seats among the top 3 parties in parliament in 2004 and 2009 to holding a majority of seats in 2014 and 2019.
- (B) reached its highest percentage of seats the same year that the Indian National Congress had its lowest percentage of seats over the same time period.
- (C) won a lower percentage of seats in the 2009 election than in the 2004 election.
- (D) had a lower percentage of seats than the Indian National Congress in 2004 but a higher percentage of seats than the Indian National Congress in 1999.

CONTINUE

Changes in Indicators of Fatty Liver Disease
in Vitamin B12 and Placebo Groups

Indicator	Vitamin B12 Group	Control Group
steatosis values (dB/cm/MHz)	-0.41	-0.30
fibrosis values (kPa)	-0.35	0.10
fasting blood glucose (mg/dl)	-5.00	-1.50
fasting serum insulin (μ U/ml)	-1.46	-0.21
homeostasis model assessment of insulin resistance (HOMA-IR)	-0.23	0.06

Fatty liver disease (FLD) occurs when excess fat builds up in the liver. While there are often few or no symptoms of FLD, if left untreated, it can lead to cirrhosis or liver cancer. Because FLD is often asymptomatic, doctors and researchers rely on indicators such as steatosis (retention of fat in the liver), fibrosis (scarring), blood glucose (sugar), serum insulin, and insulin resistance to measure and track the development of FLD. A group of researchers led by radiologist Hamid Reza Talari hypothesized that those who take vitamin B12 would experience improvements in fibrosis and insulin resistance when compared to a control group over the same time period.

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

- (A) Those in the control group had decreases in their steatosis values and fasting blood glucose but had increases in fibrosis values and HOMA-IR.
- (B) Those in the vitamin B12 group had decreases in fibrosis values and HOMA-IR levels, whereas those in the control group had increases in these same values.
- (C) Both those in the vitamin B12 group and the control group had decreases in their steatosis values.
- (D) Those in the control group had a decrease in their fasting blood glucose, but those in the vitamin B12 group had an increase in their fasting blood glucose.

CONTINUE

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13 Mark for Review

Mean Levels of Carbon Monoxide (ppm),
November 18–26, 1966

City	Day of the Month of November									
	18	19	20	21	22	23	24	25	26	
Newark, NJ	16	14	15	21	23	28	32	27	21	
New York, NY	4	3	1	2	3	6	7	13	8	
Philadelphia, PA	6	0	0	0	1	6	9	10	6	
Washington, D.C.	4	2	3	0	0	0	0	0	0	

The air pollution produced in an area is only one factor in that area's air quality. Weather patterns, in particular wind and the movement of air masses, can affect the concentration of pollutants such as carbon monoxide. During a smog event that occurred in the northeastern United States in November 1966, levels of carbon monoxide were recorded in Newark, New Jersey, the origin of the smog event, as well as neighboring city New York, NY, and more distant cities such as Philadelphia, PA, and Washington, D.C. The localized nature of weather patterns during this event can be seen by comparing Newark, NJ, and New York, NY, with _____

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

- (A) Washington, D.C., on the 18th and the 19th.
- (B) Philadelphia, PA, on the 23rd and the 25th
- (C) Philadelphia, PA, on the 24th and the 26th.
- (D) Washington, D.C., on the 23rd and the 24th.

14 Mark for Review

Neurons respond to stimuli from sensory organs or other neurons. Learning occurs when neurons change how they respond to stimuli based on previous experience, which is a property of memory. Electrical engineers seek to replicate similar processes in their development of computer memory. Recently, research by electrical engineer Mohammad Samizadeh Nikoo has demonstrated that vanadium dioxide (VO_2) has a similar memory property to that of neurons, suggesting that _____

Which choice most logically completes the text?

- (A) VO_2 could be used in the development of computer memory.
- (B) neurons use VO_2 when forming memories.
- (C) VO_2 can learn to respond to stimuli from sensory organs.
- (D) electrical engineers can now use neurons to develop computer memory.

CONTINUE

15 Mark for Review

Uruguayan-Spanish author Carmen Posadas has written the children's books *Juego de Niños* (*Child's Play*) and *La Cinta Roja* (*The Red Ribbon*). Currently, _____ available in over fifty countries and thirty languages.

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

☐ (A) some are☐ (B) this is☐ (C) they are☐ (D) it is

16 Mark for Review

During a meeting, a group of twelve young deaf people shared their feelings of isolation and their desire for support. In 1988, the group worked together to form Action Deaf Youth, an _____ provides services and programs for deaf children and youth throughout Northern Ireland.

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

☐ (A) organization, that☐ (B) organization☐ (C) organization that☐ (D) organization,

17 Mark for Review

In 1986, after a 56-day expedition, Ann Bancroft became the first woman to reach the North Pole. Her experience as a physical education teacher and her leadership of the first all-female team to cross the ice to the South _____ her to create a foundation that supports girls in pursuing their dreams.

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

☐ (A) Pole to inspire☐ (B) Pole that inspired☐ (C) Pole, inspiring☐ (D) Pole inspired

18 Mark for Review

American artist Simone Leigh creates art in various mediums, including sculptures, video, and _____. The themes and images in her artwork, Leigh has emphasized that Black women are her primary audience and that they would be familiar with the allusions in her work.

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

☐ (A) performance. Discussing☐ (B) performance discussing☐ (C) performance and discussing☐ (D) performance, discussing**CONTINUE**

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19 Mark for Review

Japanese origamist Akira Yoshizawa is considered the grandmaster of origami, creating more than 50,000 models as well as wet-folding, the most well-known of his invented techniques. _____ dampening the paper before folding, leading to origami models with rounder and more sculpted looks.

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

- (A) It involves
- (B) They involve
- (C) One involves
- (D) These involve

20 Mark for Review

Chinese artist Xu Bing is known for his art installations that showcase his printmaking skills and his creative use of languages and texts. His 1991 installation *A Book from the Sky*, for example, consists of volumes and scrolls printed with characters he invented, while his 2004 installation *The Glassy Surface of a _____* uses the text of Henry David Thoreau's *Walden* to create the illusion of a lake.

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

- (A) Lake:
- (B) Lake
- (C) Lake,
- (D) Lake—

21 Mark for Review

Developed along with the swing style of jazz music in the 1920s, swing dance is a group of social dances that once comprised hundreds of styles. Not all of the styles survived beyond that time _____ the dances that are still popular today include Lindy Hop, Balboa, Collegiate Shag, and Charleston.

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

- (A) period; however,
- (B) period, however;
- (C) period, however,
- (D) period, however


22 Mark for Review

Evolutionary biologist Jonathan Cade may have discovered the oldest amphibious beaver species in the world. Cade first compared measurements of the beaver's ankle to those of almost 350 other rodent species to learn more about how it moved. _____ Cade dated the species to approximately 30 million years ago based on its location between rock and ash layers.

Which choice completes the text with the most logical transition?

- (A) For example,
- (B) In conclusion,
- (C) Next,
- (D) In fact,


CONTINUE

23  Mark for Review

Male and female American citizens had starkly different roles during World War II. Men served as soldiers or took part in the workforce to create weapons and other wartime materials. _____ women were responsible for maintaining the home and supporting the men. Some women also ventured into the workforce for the first time, and the famous "We Can Do It" poster featuring "Rosie the Riveter" was created to motivate women to pursue this new role.

Which choice completes the text with the most logical transition?


- (A) Besides,
- (B) Instead,
- (C) Likewise,
- (D) Meanwhile,

24  Mark for Review

While treatment for hearing loss is typically associated with the ears, some patients with damaged ear structures are not able to use traditional cochlear implants. _____ researchers are working to develop hearing aids anchored to patients' bones in order to combat hearing loss through vibrations in the skull.

Which choice completes the text with the most logical transition?


- (A) Secondly,
- (B) In addition,
- (C) Finally,
- (D) Hence,

25  Mark for Review

Korean artist Anicka Yi uses a unique process and materials to generate her art installations. Her materials are often perishable and biological, such as soap and flowers, and are not traditionally used for artwork. _____ Yi spends almost as much time transforming these substances into completely new materials as she does creating the actual art pieces.

Which choice completes the text with the most logical transition?

- (A) Meanwhile,
- (B) Instead,
- (C) In fact,
- (D) To conclude,


 CONTINUE

Section 1, Module 1: Reading and Writing

26

Mark for Review

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

- A writing system for expressing numbers is a numeral system.
- Two examples of numeral systems from history are Babylonian cuneiform numerals and Roman numerals.
- The Babylonian cuneiform numeral system is a base-60 system and lacks a zero digit.
- It's a positional numeral system in which the position of a digit affects its value.
- The Roman numeral system is a base-10 system and lacks a zero digit.
- It's a non-positional numeral system in which the position of a digit does not affect its value.

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

- (A) Babylonian cuneiform numerals and Roman numerals are two writing systems for expressing numbers.
- (B) The Roman numeral system is a base-10 non-positional system that lacks a zero digit.
- (C) One system for expressing numbers is Babylonian cuneiform; however, another one is the Roman numeral system.
- (D) The Babylonian cuneiform numeral system is base-60 and positional, while the Roman numeral system is base-10 and non-positional.

27

Mark for Review

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

- Archaeologists studied the burial of an individual at the Newen Antug site in Argentinian Patagonia.
- The individual was buried in a wooden structure over 800 years ago.
- An analysis of the structure revealed that it was carved from a tree with excellent buoyancy.
- The wooden structure was a canoe, suggesting that canoes were used as coffins at that time.

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

- (A) The burial site of an individual over 800 years ago was found at the Newen Antug site in Argentinian Patagonia.
- (B) Archaeologists studied the burial site of an individual who was buried at the Newen Antug site over 800 years ago.
- (C) An analysis of a burial site at the Newen Antug site in Argentinian Patagonia provided evidence that canoes were used as coffins over 800 years ago.
- (D) As part of a study of a burial site at the Newen Antug site in Argentinian Patagonia, a wooden structure buried with an individual was analyzed.

CONTINUE