



KSSR STUDY TOOLS - FREE FULL-LENGTH PRACTICE

SAT Full Practice Test 1

Reading and Writing - Math

PRINT AND DIGITAL EDITION

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The answer key and response guidance are included at the back. Do not consult them until you have completed the test.

Content source: separately validated KSSR SAT Test 1 bank, reviewed 27 July 2026. American English edition.

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Candidate information

PAPER PRACTICE FORMAT

This bank contains two 33-question Reading and Writing modules and two 27-question Math modules. For the same timing and navigation used by KSSR online, take the digital version at the link below.

Name: _____ Date: _____

Reading and Writing target time: 64 minutes. Math target time: 70 minutes.

A calculator may be used throughout the Math section. The KSSR online runner includes a calculator.



READING AND WRITING

SECTION INSTRUCTIONS

There are two modules of 33 questions. Choose the best answer for every question.

Reading and Writing Module 1

Words in context

In 1821, Sequoyah completed a writing system for the Cherokee language in which each symbol represented a syllable. Because the system closely matched spoken Cherokee, it was unusually _____: many Cherokee people learned it within only a few years.

1. Which choice completes the text with the most logical and precise word?

- A. decorative
- B. learnable
- C. secretive
- D. accidental

Words in context

Geologist Alfred Wegener proposed continental drift in 1912, arguing that continents had once formed a single landmass. Although later plate-tectonic theory supported the broad idea of moving continents, Wegener's original mechanism was _____; he could not adequately explain what force moved the continents.

2. Which choice completes the text with the most logical and precise word?

- A. inadequate
- B. impartial
- C. redundant
- D. inevitable

Words in context

In her notes on Charles Babbage's Analytical Engine, Ada Lovelace suggested that a machine manipulating symbols by rule might one day work with music as well as numbers. Her view was therefore _____: she imagined uses for computation beyond arithmetic.

3. Which choice completes the text with the most logical and precise word?

- A. prescient
- B. reluctant
- C. conventional
- D. dismissive

Words in context

Conceptual artist Sol LeWitt often wrote instructions that others could use to make wall drawings. Because the instructions, rather than the artist's hand, guided each realization, the work could be _____ in different places while remaining recognizably the same artwork.

4. Which choice completes the text with the most logical and precise word?

- A. replicated
- B. concealed
- C. simplified
- D. contradicted

Words in context

The following text is adapted from Jane Austen's 1813 novel *Pride and Prejudice*.

Elizabeth listens as a wealthy visitor praises a grand estate with rehearsed confidence. Rather than being dazzled, Elizabeth notices how carefully the visitor has arranged every compliment, as if admiration itself were a performance.

5. As used in the text, "arranged" most nearly means

- A. repaired.
- B. organized.
- C. delayed.
- D. transported.

Words in context

In sociology, Emile Durkheim used the term "social facts" for norms, institutions, and patterns of behavior that exist outside any one person yet shape individual action. For Durkheim, a language or legal system is not merely personal preference; it is _____.

6. Which choice completes the text with the most logical and precise word?

- A. external
- B. imaginary
- C. private
- D. temporary

Words in context

Biologist Lynn Margulis argued that mitochondria and chloroplasts originated as once-independent organisms that were incorporated into other cells. The endosymbiotic theory was initially controversial, but evidence from organelle DNA helped make it _____ among biologists.

7. Which choice completes the text with the most logical and precise word?

- A. peripheral
- B. accepted
- C. hidden
- D. ornamental

Words in context

In Joseph Kosuth's *One and Three Chairs* (1965), a physical chair appears beside a photograph of that chair and a dictionary definition of "chair." The artwork asks viewers to consider whether an object, an image, or a word best _____ what a chair is.

8. Which choice completes the text with the most logical and precise word?

- A. represents
- B. damages
- C. purchases
- D. postpones

Central ideas and details

The following text is adapted from Frederick Douglass's 1845 autobiography.

Douglass describes learning to read as both a liberation and a burden. Literacy allows him to understand arguments against slavery, but that understanding makes his own condition feel even more intolerable.

9. Which choice best states the main idea of the text?

- A. Douglass believes that literacy is useful only when it remains secret.
- B. Douglass presents reading as a source of knowledge that also deepens his suffering.
- C. Douglass suggests that learning to read is easier than most people assume.
- D. Douglass argues that books are less persuasive than spoken arguments.

Text structure and purpose

Many historians treat the Lewis and Clark expedition as an example of scientific collecting as well as territorial exploration. The expedition recorded plants, animals, maps, and Indigenous diplomatic encounters, but its records were shaped by the political goals of the United States government.

10. Which choice best describes the function of the underlined idea in the text?

- A. It complicates a simple view of the expedition as purely scientific.
- B. It proves that the expedition collected no scientific information.
- C. It shows that the expedition had no connection to government policy.
- D. It explains why the expedition avoided mapping western territories.

Central ideas and details

Ecologists studying forests sometimes distinguish between "old-growth" forests and forests that have regrown after clearing. Old-growth forests usually contain trees of many ages, large dead wood, and complex habitats. A newly regrown forest may be dense and green, but it does not necessarily have the same ecological structure.

11. Which choice best states the main idea of the text?

- A. forest's ecological complexity cannot be judged only by whether it contains many living trees.
- B. Newly regrown forests always support more species than old-growth forests do.
- C. Scientists no longer use the term "old-growth" when describing forests.
- D. Dead wood prevents old-growth forests from developing complex habitats.

Command of evidence - textual

The following text is adapted from Kate Chopin's 1894 story "The Story of an Hour."

After hearing unexpected news, Louise Mallard sits alone in her room. Outside, she notices patches of blue sky, the smell of rain, and the sound of birds. These ordinary details seem newly intense, as though the world has quietly changed its meaning.

12. Which choice best describes the purpose of the sensory details in the text?

- A. They show that Louise is ignoring the news she has received.
- B. They suggest that Louise's inner state is shifting as she observes the world.
- C. They establish that the story takes place in a rural setting.
- D. They prove that Louise prefers nature to other people.

Command of evidence - quantitative

The table gives selected annual mean carbon dioxide (CO₂) measurements from the Mauna Loa Observatory. Values are in parts per million (ppm).

Year	Annual mean CO ₂ (ppm)
1960	316.91
1980	338.75
2000	369.55
2020	414.24

13. Which choice best describes the trend shown in the table?

- A. CO₂ levels decreased steadily between 1960 and 2020.
- B. CO₂ levels increased in each interval shown, with the largest listed increase occurring from 2000 to 2020.
- C. CO₂ levels rose from 1960 to 1980 but returned to near 1960 levels by 2020.
- D. CO₂ levels remained nearly unchanged from 1980 to 2020.

Central ideas and details

The chart summarizes several works and writings often discussed in histories of conceptual art.

Artist	Work or writing	Year
Marcel Duchamp	Fountain	1917
Yoko Ono	Grapefruit	1964
Sol LeWitt	"Paragraphs on Conceptual Art"	1967
Mierle Laderman Ukeles	"Maintenance Art Manifesto"	1969

14. Which statement is best supported by the chart?

- A. Ono's Grapefruit was published after Ukeles's manifesto.
- B. LeWitt's essay appeared before Duchamp submitted Fountain.
- C. Duchamp's Fountain predates the other listed works and writings.
- D. Ukeles's manifesto was written before Ono's Grapefruit.

Central ideas and details

The graph summarizes the number of known moons of selected planets as recognized by NASA in recent planetary fact sheets.

Planet	Known moons
Earth	1
Mars	2
Uranus	28
Neptune	16

15. A student claims that the chart shows that all outer planets have more known moons than all inner planets listed. Which choice best evaluates the student's claim?

- A. The claim is supported because Uranus and Neptune each have more known moons than Earth and Mars.
- B. The claim is supported because Mars has exactly twice as many known moons as Earth.
- C. The claim is not supported because Neptune has fewer known moons than Uranus.
- D. The claim is not supported because Earth has fewer known moons than Mars.

Cross-text connections

Text 1

Some critics argue that Mary Shelley's *Frankenstein* warns against scientific ambition: Victor Frankenstein's desire to create life leads to isolation and disaster.

Text 2

Other critics argue that the novel is less a rejection of science than a critique of irresponsibility. Victor's failure is not curiosity itself but his refusal to care for the being he creates.

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

- A. By agreeing that the novel condemns all scientific inquiry
- B. By arguing that the novel's warning is aimed at neglected responsibility rather than ambition alone
- C. By denying that Victor's experiment has serious consequences
- D. By claiming that the novel is mainly about political revolution

Command of evidence - textual

Text 1

In conceptual art, the idea behind a work can be more important than the object's visual appearance. For this reason, some works can be remade from written instructions.

Text 2

However, material form still matters. A viewer encountering a remade instruction-based work in a museum experiences specific scale, placement, lighting, and materials, not an abstract idea alone.

17. What is the main relationship between the two texts?

- A. Text 2 rejects the claim that conceptual art uses ideas.
- B. Text 2 adds a qualification to Text 1's emphasis on ideas.
- C. Text 2 gives a historical example unrelated to Text 1.
- D. Text 2 argues that conceptual art ended before museums displayed it.

Transitions

The Rosetta Stone contains a decree written in three scripts: hieroglyphic, Demotic, and Greek. Scholars could read ancient Greek; _____, they used the Greek text to help decipher the Egyptian scripts.

18. Which choice completes the text with the most logical transition?

- A. nevertheless,
- B. for example,
- C. therefore,
- D. similarly,

Transitions

Many people associate volcanoes only with destruction. _____, volcanic ash can weather into fertile soil, and volcanic islands can create new habitats.

19. Which choice completes the text with the most logical transition?

- A. Consequently,
- B. Specifically,
- C. In other words,
- D. However,

Transitions

Sociologist W. E. B. Du Bois used empirical data, including charts and maps, in his study of Black life in Philadelphia. _____, he also wrote in a literary and philosophical style in works such as *The Souls of Black Folk*.

20. Which choice completes the text with the most logical transition?

- A. As a result,
- B. Instead,
- C. In addition,
- D. For instance,

Transitions

The James Webb Space Telescope observes infrared light, which can pass through some cosmic dust more easily than visible light can. _____, Webb can reveal details in star-forming regions that earlier visible-light images might obscure.

21. Which choice completes the text with the most logical transition?

- A. By contrast,
- B. Even so,
- C. For example,
- D. As a result,

Command of evidence - textual

Historian Annette Gordon-Reed reexamined archival evidence about Thomas Jefferson and Sally Hemings; her work challenged assumptions that earlier scholars had often treated as settled.

22. Which choice is the best version of the underlined portion?

- A. Hemings, her
- B. Hemings; her
- C. Hemings her
- D. Hemings and her

Command of evidence - textual

The painter Jacob Lawrence created The Migration Series, a group of sixty panels that narrates the movement of Black Americans from the rural South to northern cities during the twentieth century.

23. Which choice is the best version of the underlined portion?

- A. Series a group
- B. Series; a group
- C. Series, and a group
- D. Series, a group

Command of evidence - textual

Known for her precise observations of chimpanzee behavior, Jane Goodall changed how many scientists understood tool use among nonhuman animals.

24. Which choice is the best version of the underlined portion?

- A. behavior Jane Goodall, changed
- B. behavior; Jane Goodall changed,
- C. behavior, Jane Goodall changed
- D. behavior Jane Goodall changed

Command of evidence - textual

The artist Yoko Ono published Grapefruit in 1964; the book consists of brief instructions that readers may perform physically or imagine performing.

25. Which choice is the best version of the underlined portion?

- A. 1964, the
- B. 1964 the
- C. 1964; the
- D. 1964 and the

Command of evidence - textual

During the Harlem Renaissance, Zora Neale Hurston collected folklore in the American South, and she later incorporated elements of oral storytelling into her fiction.

26. Which choice is the best version of the underlined portion?

- A. South and, she later
- B. South; and she later
- C. South she later
- D. South, and she later

Command of evidence - textual

The botanist George Washington Carver promoted crop rotation, especially the planting of legumes such as peanuts, to help restore nitrogen to depleted soils.

27. Which choice is the best version of the underlined portion?

- A. rotation especially, the planting
- B. rotation, especially the planting
- C. rotation especially the planting,
- D. rotation; especially the planting

Command of evidence - textual

In 1967, Jocelyn Bell Burnell noticed a regular radio signal while analyzing data from a radio telescope. The signal, later identified as coming from a pulsar, helped open a new area of astronomy.

28. Which choice is the best version of the underlined portion?

- A. signal later identified as coming from a pulsar helped,
- B. signal, later identified as coming from a pulsar helped
- C. signal later identified, as coming from a pulsar, helped
- D. signal, later identified as coming from a pulsar, helped

Form, structure, and sense

The notes in Ada Lovelace's 1843 translation of an article about the Analytical Engine _____ longer than the article itself.

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

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

Subject-verb agreement

Neither the photograph nor the dictionary definition in Kosuth's One and Three Chairs _____ the physical chair; instead, each presents a different way of understanding it.

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

- A. replace
- B. replacing
- C. replaces
- D. have replaced

Form, structure, and sense

Although Mary Anning made major fossil discoveries, many scientific papers of her time _____ her contributions.

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

- A. overlooks
- B. overlooked
- C. overlooking
- D. has overlooked

Rhetorical synthesis

While researching the history of photography, a student has taken the following notes:

Anna Atkins was an English botanist and photographer.

She used cyanotype, a photographic process that produces blue images.

Her book *Photographs of British Algae: Cyanotype Impressions* appeared in parts beginning in 1843.

The book is often described as one of the first books illustrated with photographs.

32. The student wants to emphasize the historical importance of Atkins's book. Which choice most effectively uses relevant information from the notes?

- A. Anna Atkins was both a botanist and a photographer, and she worked in England.
- B. Cyanotype is a photographic process that produces blue images.
- C. Beginning in 1843, Atkins's *Photographs of British Algae* helped make photographic images part of book illustration.
- D. Atkins studied algae before publishing a book about them.

Rhetorical synthesis

While researching urban sociology, a student has taken the following notes:

Jane Jacobs published *The Death and Life of Great American Cities* in 1961.

Jacobs criticized urban planning that isolated functions such as housing, work, and shopping.

She argued that mixed uses and active sidewalks could make neighborhoods safer and more vibrant.

Her ideas influenced later debates about city planning.

33. The student wants to explain Jacobs's central claim. Which choice most effectively uses relevant information from the notes?
- A. Jacobs's 1961 book became influential in later debates about urban planning.
 - B. Jacobs argued that neighborhoods work better when they combine uses and support active street life.
 - C. Jacobs criticized some urban planners in the twentieth century.
 - D. *The Death and Life of Great American Cities* was published in 1961.

Reading and Writing Module 2**Words in context**

In the 1790s, Benjamin Banneker published almanacs containing astronomical calculations. Because such almanacs required mathematical skill and were widely circulated practical texts, they helped make Banneker's expertise _____ to readers beyond his local community.

34. Which choice completes the text with the most logical and precise word?
- A. visible
 - B. irrelevant
 - C. doubtful
 - D. accidental

Words in context

Paleontologist Mary Anning discovered important marine reptile fossils along the cliffs of Lyme Regis. Yet because nineteenth-century scientific institutions often excluded women and working-class collectors, her labor was frequently _____ in formal publications.

35. Which choice completes the text with the most logical and precise word?
- A. amplified
 - B. minimized
 - C. duplicated
 - D. forecast

Words in context

Astronomer Cecilia Payne-Gaposchkin argued in her 1925 doctoral thesis that stars are composed mainly of hydrogen and helium. At first, the conclusion seemed _____ because it conflicted with the prevailing assumption that stars resembled Earth in composition.

36. Which choice completes the text with the most logical and precise word?

- A. radical
- B. trivial
- C. decorative
- D. repetitive

Words in context

Jane Jacobs's observations of sidewalks, shops, and neighbors led her to criticize city plans that separated urban functions too rigidly. Her method was notably _____: she drew broad planning arguments from close attention to everyday street life.

37. Which choice completes the text with the most logical and precise word?

- A. empirical
- B. mythical
- C. hereditary
- D. reluctant

Words in context

The following text is adapted from Mary Shelley's 1818 novel *Frankenstein*.

Walton writes from the Arctic to his sister, describing both the grandeur of the icy landscape and his longing for a friend who can understand his ambitions. His excitement about discovery is therefore shadowed by isolation.

38. As used in the text, "shadowed" most nearly means

- A. copied.
- B. protected.
- C. darkened.
- D. followed.

Words in context

Artist Adrian Piper's conceptual works often ask viewers to examine assumptions about race, identity, and social interaction. Rather than treating the audience as passive observers, Piper's work frequently makes viewers _____ in the questions the work raises.

39. Which choice completes the text with the most logical and precise word?

- A. complicit
- B. invisible
- C. decorative
- D. unrelated

Words in context

In Thomas Kuhn's account of scientific change, a "paradigm shift" occurs when accumulating anomalies lead a scientific community to replace one framework with another. The process is not merely additive; it is _____.

40. Which choice completes the text with the most logical and precise word?

- A. transformative
- B. alphabetical
- C. temporary
- D. imitative

Words in context

Barbara McClintock discovered that some genetic elements can move within a genome. Because her findings challenged the idea that genes occupy fixed positions, they were initially _____ by some geneticists before later being recognized as foundational.

41. Which choice completes the text with the most logical and precise word?

- A. resisted
- B. rehearsed
- C. inflated
- D. preserved

Central ideas and details

The following text is adapted from Charles W. Chesnutt's 1899 story collection *The Conjure Woman*.

The narrator often presents himself as practical and skeptical, yet he repeatedly listens to Julius's stories about plantation life. The frame allows Chesnutt to place official-sounding narration beside oral storytelling, making readers compare competing forms of authority.

42. Which choice best states the main idea of the text?

- A. Chesnutt presents Julius's stories as unrelated to plantation history.
- B. Chesnutt suggests that skeptical narrators are always correct.
- C. Chesnutt uses the frame narrative to contrast different claims to knowledge.
- D. Chesnutt avoids using oral storytelling techniques.

Central ideas and details

In many Indigenous oral traditions, repetition is not simply redundancy. Repeated phrases can mark structure, aid memory, and invite listeners to notice variation. A written transcript that removes repetition may therefore make an oral performance seem less artful than it is.

43. Which choice best states the main idea of the text?

- A. Written transcripts always preserve the full effect of oral performance.
- B. Repetition in oral traditions can serve important artistic and practical functions.
- C. Indigenous oral traditions avoid repeated phrases.
- D. Listeners usually dislike variation in repeated phrases.

Text structure and purpose

Some historians of science note that Rosalind Franklin's X-ray diffraction work was crucial to identifying the structure of DNA. They also emphasize that scientific discovery is often collaborative, even when later accounts focus on a small number of celebrated individuals.

44. Which choice best describes the function of the second sentence?

- A. It denies that Franklin's X-ray work mattered.
- B. It explains the chemical structure of DNA in detail.
- C. It shifts the topic from science to unrelated biography.
- D. It places Franklin's contribution within a broader claim about how science is remembered.

Central ideas and details

The "broken windows" theory in sociology and criminology proposed that visible signs of disorder could encourage further disorder. Later researchers debated both the theory's evidence and its policy consequences, especially when it was used to justify aggressive policing.

45. Which choice best states the main idea of the text?

- A. The broken windows theory was never discussed outside academic journals.
- B. Later researchers agreed completely with the theory's original claims.
- C. A social theory can become controversial not only because of evidence but also because of how it is applied.
- D. The theory was mainly about repairing literal windows in old buildings.

Central ideas and details

The chart shows the Volcanic Explosivity Index (VEI) assigned to selected eruptions. A higher VEI indicates a more explosive eruption.

Volcano and eruption year	VEI
Mount Tambora, 1815	7
Krakatoa, 1883	6
Mount Pinatubo, 1991	6
Eyjafjallajokull, 2010	4

46. Which statement is best supported by the chart?

- A. Eyjafjallajokull had the most explosive eruption listed.
- B. Tambora's 1815 eruption has a higher VEI than the other eruptions listed.
- C. Krakatoa's 1883 eruption had a lower VEI than Eyjafjallajokull's 2010 eruption.
- D. Pinatubo's 1991 eruption and Tambora's 1815 eruption had the same VEI.

Central ideas and details

The table lists several works often cited in sociology and urban studies.

Author	Work	Year
Emile Durkheim	The Rules of Sociological Method	1895
W. E. B. Du Bois	The Philadelphia Negro	1899
Erving Goffman	The Presentation of Self in Everyday Life	1959
Jane Jacobs	The Death and Life of Great American Cities	1961

47. Which statement is best supported by the table?

- A. Jacobs's work appeared before Durkheim's.
- B. Du Bois's work appeared four years after Durkheim's.
- C. Goffman's work appeared in the nineteenth century.
- D. Durkheim and Jacobs published their listed works in the same decade.

Central ideas and details

The chart lists selected scientific discoveries or experiments and the scientists associated with them.

Scientist	Discovery or experiment	Year
Mary Anning	Early ichthyosaur fossil discovery	1811
Chien-Shiung Wu	Experimental test of parity conservation	1956
Jocelyn Bell Burnell	Pulsar signal detection	1967
Barbara McClintock	Nobel Prize for work on mobile genetic elements	1983

48. Which statement is best supported by the chart?

- A. Bell Burnell's pulsar signal detection occurred before Wu's parity experiment.
- B. McClintock's Nobel Prize came before Anning's fossil discovery.
- C. The listed event associated with Anning occurred earlier than the other listed events.
- D. Wu's parity experiment occurred after McClintock's Nobel Prize.

Command of evidence - quantitative

Text 1

Thomas Kuhn argued that scientific communities work within paradigms: shared models that guide what questions scientists ask and what counts as evidence.

Text 2

Philosopher Karl Popper emphasized falsifiability, arguing that scientific claims should be testable in ways that could show them to be false.

49. Based on the texts, which statement best describes a difference between Kuhn's and Popper's emphases?
- A. Kuhn rejects evidence, while Popper rejects scientific testing.
 - B. Kuhn focuses only on biology, while Popper focuses only on astronomy.
 - C. Kuhn and Popper both argue that scientific theories cannot change.
 - D. Kuhn emphasizes shared historical frameworks, while Popper emphasizes a logical standard for testing claims.

Cross-text connections

Text 1

Yoko Ono's instruction pieces show that an artwork can exist as a prompt completed in the viewer's imagination.

Text 2

Performance histories of Ono's work show that actual bodies, places, and audiences also matter; the same instruction can produce different meanings when enacted in different contexts.

50. How would the author of Text 2 most likely respond to Text 1?
- A. By arguing that Ono never used written instructions
 - B. By claiming that imagined artworks are unrelated to conceptual art
 - C. By agreeing but adding that performance context changes how an instruction-based work is experienced
 - D. By denying that audiences participate in Ono's work

Transitions

The Mexican artist Mierle Laderman Ukeles wrote the 1969 "Maintenance Art Manifesto," connecting everyday maintenance labor to art. _____, her later work with New York sanitation workers treated public service as a form of social and artistic practice.

51. Which choice completes the text with the most logical transition?

- A. Nevertheless,
- B. Instead,
- C. Similarly,
- D. Earlier,

Transitions

The Great Migration reshaped US cities as millions of Black Americans left the South between roughly 1916 and 1970. _____, artists such as Jacob Lawrence represented the movement not as a single event but as a sequence of departures, journeys, and arrivals.

52. Which choice completes the text with the most logical transition?

- A. However,
- B. Consequently,
- C. For instance,
- D. In contrast,

Transitions

Rachel Carson's *Silent Spring* drew public attention to the ecological risks of pesticides. _____, some chemical companies criticized the book, arguing that Carson had overstated the dangers.

53. Which choice completes the text with the most logical transition?

- A. Therefore,
- B. In other words,
- C. For example,
- D. At the same time,

Transitions

The Voyager Golden Record includes sounds, music, images, and greetings selected to represent Earth to possible extraterrestrial finders. _____, the record is both a scientific artifact and a cultural self-portrait.

54. Which choice completes the text with the most logical transition?

- A. Nevertheless,
- B. Thus,
- C. Previously,
- D. By contrast,

Command of evidence - textual

The scientist Chien-Shiung Wu designed an experiment testing whether parity is conserved in weak nuclear interactions; the results helped overturn a widely held assumption in physics.

55. Which choice is the best version of the underlined portion?

- A. interactions, the
- B. interactions the
- C. interactions; the
- D. interactions and the

Command of evidence - quantitative

In *The Souls of Black Folk*, W. E. B. Du Bois combines historical analysis, personal reflection, and musical epigraphs, creating a work that crosses disciplinary boundaries.

56. Which choice is the best version of the underlined portion?

- A. epigraphs creating,
- B. epigraphs; creating
- C. epigraphs and creating,
- D. epigraphs, creating

Command of evidence - textual

The astronomer Vera Rubin studied the rotation of galaxies, and her observations provided evidence that large amounts of unseen mass affect galactic motion.

57. Which choice is the best version of the underlined portion?

- A. galaxies and, her
- B. galaxies; and her
- C. galaxies her
- D. galaxies, and her

Command of evidence - textual

Marcel Duchamp's Fountain, a porcelain urinal submitted as art in 1917, raised questions about authorship, selection, and the role of institutions.

58. Which choice is the best version of the underlined portion?

- A. Fountain a porcelain urinal submitted as art in 1917, raised
- B. Fountain, a porcelain urinal submitted as art in 1917 raised
- C. Fountain, a porcelain urinal submitted as art in 1917, raised
- D. Fountain; a porcelain urinal submitted as art in 1917, raised

Command of evidence - textual

Although the term "Anthropocene" is widely used in discussions of human impacts on Earth systems, geologists have debated whether it should be formalized as an official epoch.

59. Which choice is the best version of the underlined portion?

- A. systems geologists
- B. systems; geologists,
- C. systems, and geologists,
- D. systems, geologists

Command of evidence - textual

The sociologist Erving Goffman analyzed everyday interaction as a kind of performance, a framework that made ordinary gestures, settings, and roles newly available for study.

60. Which choice is the best version of the underlined portion?

- A. performance a framework
- B. performance; a framework,
- C. performance, a framework
- D. performance and a framework,

Command of evidence - quantitative

In 1968, the Apollo 8 astronauts photographed Earth rising above the lunar horizon; the image later called Earthrise, became an icon of environmental awareness.

61. Which choice is the best version of the underlined portion?

- A. horizon, the image later called Earthrise, became
- B. horizon the image, later called Earthrise, became
- C. horizon; the image, later called Earthrise, became
- D. horizon; the image later called Earthrise became,

Form, structure, and sense

The data from Franklin's X-ray images _____ Watson and Crick as they developed their model of DNA's structure.

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

- A. informs
- B. informed
- C. informing
- D. have informs

Subject-verb agreement

Each of On Kawara's date paintings _____ the date on which it was made.

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

- A. record
- B. recording
- C. records
- D. have recorded

Subject-verb agreement

Neither Kuhn's historical account nor Popper's falsifiability criterion _____ every question philosophers ask about science.

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

- A. answer
- B. answering
- C. have answered
- D. answers

Rhetorical synthesis

While researching marine biology, a student has taken the following notes:

Eunice Newton Foote conducted experiments on gases and heat in the 1850s.

She found that air containing carbon dioxide warmed more than ordinary air when exposed to sunlight.

Her 1856 paper was presented at a meeting of the American Association for the Advancement of Science.

Her work is now discussed in histories of climate science.

65. The student wants to emphasize the scientific relevance of Foote's experiment. Which choice most effectively uses relevant information from the notes?

- A. Foote's paper was presented at a scientific meeting in the nineteenth century.
- B. Foote conducted experiments in the 1850s.
- C. Foote's 1856 experiment showed that carbon dioxide-rich air warmed more than ordinary air, a finding relevant to later climate science.
- D. Historians now discuss Foote's work.

Rhetorical synthesis

While researching conceptual art, a student has taken the following notes:

Sol LeWitt wrote "Paragraphs on Conceptual Art" in 1967.

LeWitt argued that in conceptual art, the idea or concept is the most important aspect of the work.

He created wall drawings that could be executed by others following instructions.

Because of this process, the same work can have multiple realizations.

66. The student wants to connect LeWitt's theory to his artistic practice. Which choice most effectively uses relevant information from the notes?
- A. LeWitt wrote about conceptual art in 1967 and became associated with wall drawings.
 - B. LeWitt's wall drawings put his theory into practice: written instructions allowed others to realize works whose guiding idea remained central.
 - C. "Paragraphs on Conceptual Art" is an important essay from the 1960s.
 - D. LeWitt's works can appear in different locations.

MATH

SECTION INSTRUCTIONS

There are two modules of 27 questions. For student-produced response items, write the exact value in the response line.

Math Module 1

1. If $5x + 4 = 39$, what is the value of x ?
 - A. 6
 - B. 8
 - C. 7
 - D. 35
2. What is the median of the data set 13, 7, 16, 11, 22?
 - A. $69/5$
 - B. 11
 - C. 16
 - D. 13
3. A community art studio charges a one-time materials fee of \$35 and \$6 for each class. Mina paid \$77 in total. How many classes did she take?
 - A. 6
 - B. 8
 - C. $77/6$
 - D. 7
4. A line passes through $(-4, -3)$ and $(-2, 1)$. What is the slope of the line?

Response: _____
5. Which equation has the same solution as $7x + 7 = 42$?
 - A. $7x = 49$
 - B. $7x = 7$
 - C. $7x = 35$
 - D. $x = 35$

6. A cyclist travels 18 miles at a constant speed of 6 miles per hour. How many hours does the trip take?
- A. 6
 - B. 4
 - C. 12
 - D. 3
7. A preserve has 360 trees distributed over 15 acres. What is the tree density, in trees per acre?
- A. 39
 - B. 24
 - C. 15
 - D. 345
8. A quantity is modeled by $f(t) = 5(2)^t$. What is $f(2)$?

Response: _____

9. A value of 320 is increased by 15%. What is the new value?
- A. 272
 - B. 368
 - C. 320
 - D. 48



Image description: Data display for SAT Test 1 Math Module 1 Question 10.

10. A right rectangular prism has length 10, width 6, and height 4. What is its volume?

- A. 240
- B. 60
- C. 248
- D. 20

11. The equation $y = 5x - 10$ relates x and y . Which equation expresses x in terms of y ?

- A. $x = (y + 10)/5$
- B. $x = 5y + 10$
- C. $x = (y - 10)/5$
- D. $x = y/5 - 10$

12. The system $3x + 2y = 10$ and $x - 2y = 14$ has solution (x, y) . What is the value of x ?

- A. 6
- B. 7
- C. 5
- D. 2

13. In a random sample of 250 residents, 62% supported a park proposal. About how many of the town's 2,400 residents would be expected to support the proposal?

Response: _____

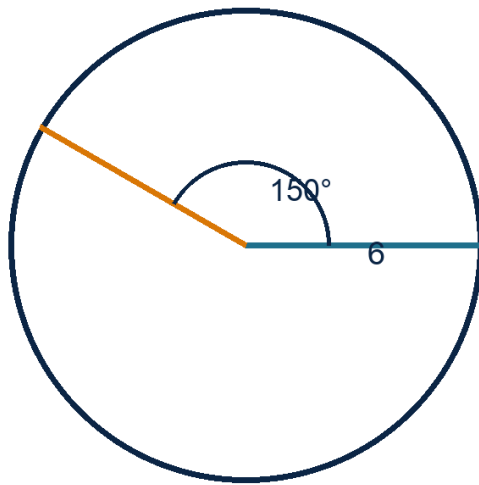


Image description: The diagram shows a circle with the indicated radius and central angle.

14. The diagram shows a circle with the indicated radius and central angle. What is the arc length divided by π ?
- A. $\frac{5}{2}$
 - B. 5
 - C. 6
 - D. 15

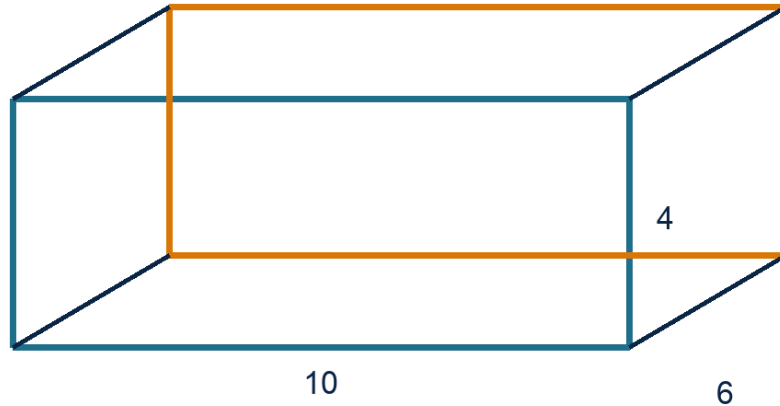


Image description: Data display for SAT Test 1 Math Module 1 Question 15.

15. A right rectangular prism has length 10, width 6, and height 4. What is its surface area?
- A. 40
 - B. 248
 - C. 240
 - D. 124
16. A club has \$20 already and earns \$6 for each item sold. What is the least number of items the club must sell to have at least \$92?
- A. 11
 - B. $46/3$
 - C. 12
 - D. 13
17. Which expression is equivalent to $x^2 - x - 12$?
- A. $(x - 4)(x + 3)$
 - B. $(x + 4)(x + 3)$
 - C. $(x - 4)(x - 3)$
 - D. $(x + 4)(x - 3)$

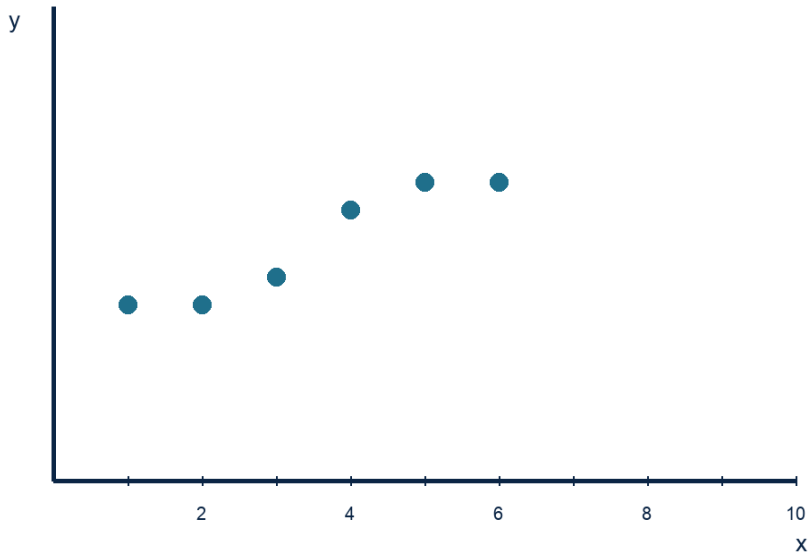


Image description: The scatterplot shows a relationship between x and y.

18. The scatterplot shows a relationship between x and y. A reasonable line of best fit is $y = 2x + 10$. According to this model, what is the predicted value of y when $x = 8$?

Response: _____

19. In a right triangle, an acute angle θ has opposite side 7 and hypotenuse 25. What is $\sin \theta$?

- A. $25/7$
- B. $7/25$
- C. $24/25$
- D. $7/24$

20. An account starts with \$600 and grows by 3% each year with no additional deposits. Which expression gives the balance after 2 years?

- A. $600 + 0.03(2)$
- B. $600(0.03)^2$
- C. $600(1 + 3)^2$
- D. $600(1.03)^2$

21. The graph of $y = f(x)$ has an x-intercept at $(9, 0)$. What is the x-intercept of $y = f(x - 4)$?

- A. $(4, 0)$
- B. $(13, 0)$
- C. $(9, 4)$
- D. $(5, 0)$

22. At a school concert, adult tickets cost \$9 and student tickets cost \$5. A total of 37 tickets brought in \$257. How many adult tickets were sold?

Response: _____

23. Which table contains only solutions to $y > 4x - 5$?

- A. Table I: (1, 1); (3, 11); (5, 19)
- B. Table II: (1, -1); (3, 11); (5, 19)
- C. Table III: (1, 1); (3, 4); (5, 19)
- D. Table IV: (1, 1); (3, 11); (5, 13)

Age	Plan X	Plan Y	Total
Under 18	19	10	29
18 or older	22	24	46
Total	41	34	75

24. Of the surveyed people who chose Plan Y, what fraction were 18 or older?

- A. $\frac{5}{17}$
- B. $\frac{46}{75}$
- C. $\frac{8}{25}$
- D. $\frac{12}{17}$

25. For $x \neq 4$, which expression is equivalent to $(x^2 - 16)/(x - 4) + 2$?

- A. $x + 2$
- B. $x^2 + 6$
- C. $x + 6$
- D. $x - 6$

26. For $x \neq 0$, what positive value of x satisfies $x - 1 = 12/x$?

- A. 12
- B. -3
- C. 1
- D. 4

27. In $x^2 + 12x + k = 0$, k is an integer. What is the least value of k for which the equation has no real solutions?

Response: _____

Math Module 2

28. If $4x - 10 = 34$, what is the value of x ?

- A. 12
- B. 11
- C. 10
- D. 44

29. A community art studio charges a one-time materials fee of \$24 and \$9 for each class. Mina paid \$141 in total. How many classes did she take?
- A. 14
B. 13
C. $47/3$
D. 12

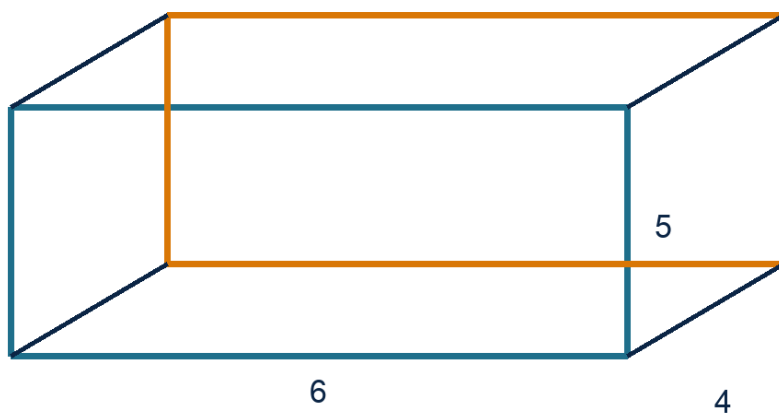


Image description: Data display for SAT Test 1 Math Module 2 Question 3.

30. A right rectangular prism has length 6, width 4, and height 5. What is its volume?
- A. 15
B. 24
C. 120
D. 148

x	f(x)
-1	-12
0	-7
1	-2
2	3

31. The table shows values of a linear function f . What is $f(4)$?

Response: _____

32. A value of 320 is increased by 30%. What is the new value?

- A. 224
- B. 320
- C. 96
- D. 416

33. The equation $y = 7x - 7$ relates x and y . Which equation expresses x in terms of y ?

- A. $x = 7y + 7$
- B. $x = (y + 7)/7$
- C. $x = (y - 7)/7$
- D. $x = y/7 - 7$

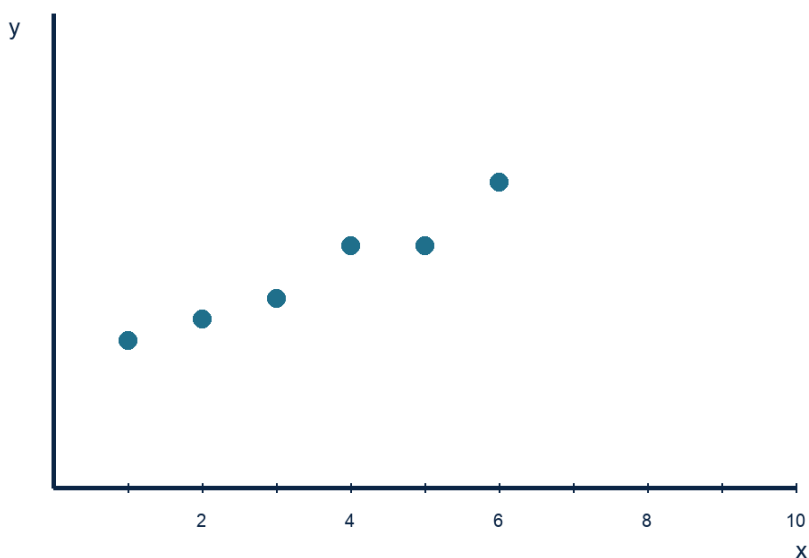


Image description: The scatterplot shows a relationship between x and y .

34. The scatterplot shows a relationship between x and y . A reasonable line of best fit is $y = 3x + 10$. According to this model, what is the predicted value of y when $x = 8$?

Response: _____

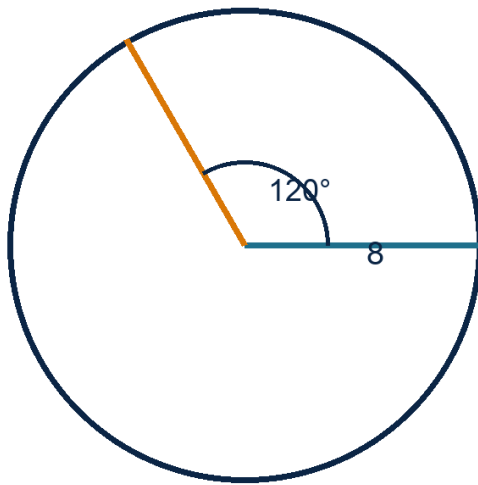


Image description: The diagram shows a circle with the indicated radius and central angle.

35. The diagram shows a circle with the indicated radius and central angle. What is the arc length divided by π ?
- A. $8/3$
 - B. 8
 - C. $16/3$
 - D. $64/3$
36. A club has \$22 already and earns \$5 for each item sold. What is the least number of items the club must sell to have at least \$77?
- A. 10
 - B. 12
 - C. 11
 - D. $77/5$

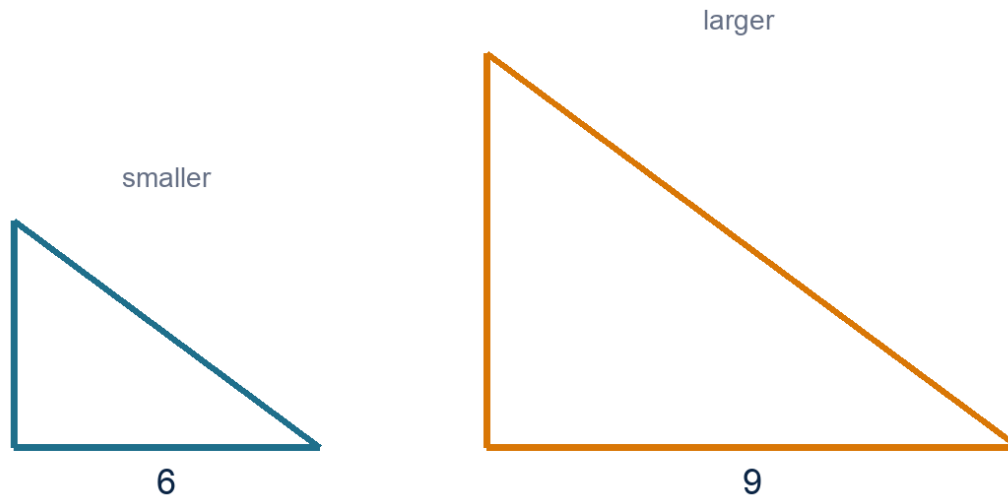


Image description: Data display for SAT Test 1 Math Module 2 Question 10.

37. Two triangles are similar. A side of the smaller triangle is 6, and the corresponding side of the larger triangle is 9. What is the scale factor from the smaller triangle to the larger triangle?

- A. 1.5
- B. 2.5
- C. 3
- D. 0.667

38. A course grade is 40% from a score of 78 and 60% from a score of 92. What is the weighted average?

Response: _____

39. In a right triangle, an acute angle θ has opposite side 5 and hypotenuse 13. What is $\sin \theta$?

- A. $12/13$
- B. $5/12$
- C. $5/13$
- D. $13/5$

40. The function $V(t) = 180 - 15t$ gives the volume of water, in liters, in a tank t minutes after draining begins. What does 15 represent?

- A. The tank initially contains 15 liters.
- B. The tank empties after 15 minutes.
- C. The tank loses 15 liters of water per minute.
- D. The tank gains 15 liters per minute.

41. Which equation represents the line with slope -1 that passes through (2, 0)?

- A. $y = 2x - 1$
- B. $y = x + 2$
- C. $y = -x - 2$
- D. $y = -x + 2$

42. The height of a model rocket is $h(t) = -2(t - 6)^2 + 86$, where t is time in seconds. At what time does the rocket reach its maximum height?

Response: _____

43. A line is parallel to $y = 4x + 4$ and passes through (-1, 3). Which equation represents this line?

- A. $y = 7x + 4$
- B. $y = 4x + 4$
- C. $y = -4x + 7$
- D. $y = 4x + 7$

44. If $f(x) = 5x - 4$ and $g(x) = 4x + 2$, what is $f(g(1))$?

- A. 26
- B. 31
- C. 7
- D. 6

45. The graph of $y = f(x)$ has an x-intercept at (9, 0). What is the x-intercept of $y = f(x - 5)$?

- A. (14, 0)
- B. (5, 0)
- C. (9, 5)
- D. (4, 0)

46. Which expression is equivalent to $2(2)^{x+3}$?

- A. $5(2)^x$
- B. $2(5)^x$
- C. $16(2)^x$
- D. $6(2)^x$

47. For what value of x does $f(x) = 2(x - 5)^2 + 1$ reach its minimum?

Response: _____

48. Which table contains only solutions to $y > 3x - 1$?

- A. Table II: (1, 0); (3, 10); (5, 15)
- B. Table IV: (1, 5); (3, 10); (5, 14)
- C. Table I: (1, 5); (3, 10); (5, 15)
- D. Table III: (1, 5); (3, 7); (5, 15)

Age	Plan X	Plan Y	Total
Under 18	21	15	36
18 or older	25	15	40
Total	46	30	76

49. Of the surveyed people who chose Plan Y, what fraction were 18 or older?

Response: _____

50. For $x \neq 3$, which expression is equivalent to $(x^2 - 9)/(x - 3) + 2$?

- A. $x - 5$
- B. $x + 5$
- C. $x^2 + 5$
- D. $x + 1$

51. The positive numbers x and y satisfy $x + y = 9$ and $xy = 18$. What is the larger value?

- A. 9
- B. 3
- C. 6
- D. 18

52. In $x^2 + 8x + k = 0$, k is an integer. What is the least value of k for which the equation has no real solutions?

- A. 25
- B. 17
- C. 15
- D. 16

53. For $x \neq 0$, what positive value of x satisfies $x - 4 = 21/x$?

- A. -3
- B. 21
- C. 4
- D. 7

54. What is the solution to $\sqrt{x + 29} = x - 1$?

Response: _____

ANSWER MATERIALS

UNOFFICIAL PRACTICE ANSWERS

Because the official SAT is adaptive, raw accuracy on this fixed KSSR bank cannot reproduce a College Board score. Use these answers and explanations for review after completing the entire test.

Reading and Writing answer key

Module 1

1. B - learnable	2. A - inadequate	3. A - prescient
4. A - replicated	5. B - organized.	6. A - external
7. B - accepted	8. A - represents	9. B - Douglass presents reading as a source of knowledge that also deepens his suffering.
10. A - It complicates a simple view of the expedition as purely scientific.	11. A - A forest's ecological complexity cannot be judged only by whether it contains many living trees.	12. B - They suggest that Louise's inner state is shifting as she observes the world.
13. B - CO2 levels increased in each interval shown, with the largest listed increase occurring from 2000 to 2020.	14. C - Duchamp's Fountain predates the other listed works and writings.	15. A - The claim is supported because Uranus and Neptune each have more known moons than Earth and Mars.
16. B - By arguing that the novel's warning is aimed at neglected responsibility rather than ambition alone	17. B - Text 2 adds a qualification to Text 1's emphasis on ideas.	18. C - therefore,
19. D - However,	20. C - In addition,	21. D - As a result,
22. B - Hemings; her	23. D - Series, a group	24. C - behavior, Jane Goodall changed
25. C - 1964; the	26. D - South, and she later	27. B - rotation, especially the planting
28. D - signal, later identified as coming from a pulsar, helped	29. C - were	30. C - replaces
31. B - overlooked	32. C - Beginning in 1843, Atkins's Photographs of British Algae helped make photographic images part of book illustration.	33. B - Jacobs argued that neighborhoods work better when they combine uses and support active street life.

Module 2

34. A - visible	35. B - minimized	36. A - radical
37. A - empirical	38. C - darkened.	39. A - complicit
40. A - transformative	41. A - resisted	42. C - Chesnutt uses the frame narrative to contrast different claims to knowledge.
43. B - Repetition in oral traditions can serve important artistic and practical functions.	44. D - It places Franklin's contribution within a broader claim about how science is remembered.	45. C - A social theory can become controversial not only because of evidence but also because of how it is applied.
46. B - Tambora's 1815 eruption has a higher VEI than the other eruptions listed.	47. B - Du Bois's work appeared four years after Durkheim's.	48. C - The listed event associated with Anning occurred earlier than the other listed events.
49. D - Kuhn emphasizes shared historical frameworks, while Popper emphasizes a logical standard for testing claims.	50. C - By agreeing but adding that performance context changes how an instruction-based work is experienced	51. C - Similarly,
52. C - For instance,	53. D - At the same time,	54. B - Thus,
55. C - interactions; the	56. D - epigraphs, creating	57. D - galaxies, and her
58. C - Fountain, a porcelain urinal submitted as art in 1917, raised	59. D - systems, geologists	60. C - performance, a framework
61. C - horizon; the image, later called Earthrise, became	62. B - informed	63. C - records
64. D - answers	65. C - Foote's 1856 experiment showed that carbon dioxide-rich air warmed more than ordinary air, a finding relevant to later climate science.	66. B - LeWitt's wall drawings put his theory into practice: written instructions allowed others to realize works whose guiding idea remained central.

Math answer key

Module 1

1. C - 7	2. D - 13	3. D - 7
4. 2	5. C - $7x = 35$	6. D - 3
7. B - 24	8. 20	9. B - 368
10. A - 240	11. A - $x = (y + 10)/5$	12. A - 6
13. 1488	14. B - 5	15. B - 248
16. C - 12	17. A - $(x - 4)(x + 3)$	18. 26
19. B - $7/25$	20. D - $600(1.03)^2$	21. B - (13, 0)
22. 18	23. A - Table I: (1, 1); (3, 11); (5, 19)	24. D - 12/17
25. C - $x + 6$	26. D - 4	27. 37

Module 2

28. B - 11	29. B - 13	30. C - 120
31. 13	32. D - 416	33. B - $x = (y + 7)/7$
34. 34	35. C - $16/3$	36. C - 11
37. A - 1.5	38. 86.4	39. C - $5/13$
40. C - The tank loses 15 liters of water per minute.	41. D - $y = -x + 2$	42. 6
43. D - $y = 4x + 7$	44. A - 26	45. A - (14, 0)
46. C - $16(2)^x$	47. 5	48. C - Table I: (1, 5); (3, 10); (5, 15)
49. $1/2$	50. B - $x + 5$	51. C - 6
52. B - 17	53. D - 7	54. 7



Answer explanations

Reading and Writing

Module 1

1. B - learnable

Choice B is correct. In this context, "learnable" supplies the meaning and logical relationship required by the surrounding sentences; the other choices do not fit the passage's precise claim.

2. A - inadequate

Choice A is correct. In this context, "inadequate" supplies the meaning and logical relationship required by the surrounding sentences; the other choices do not fit the passage's precise claim.

3. A - prescient

Choice A is correct. In this context, "prescient" supplies the meaning and logical relationship required by the surrounding sentences; the other choices do not fit the passage's precise claim.

4. A - replicated

Choice A is correct. In this context, "replicated" supplies the meaning and logical relationship required by the surrounding sentences; the other choices do not fit the passage's precise claim.

5. B - organized

Choice B is correct. In this context, "organized" supplies the meaning and logical relationship required by the surrounding sentences; the other choices do not fit the passage's precise claim.

6. A - external

Choice A is correct. In this context, "external" supplies the meaning and logical relationship required by the surrounding sentences; the other choices do not fit the passage's precise claim.

7. B - accepted

Choice B is correct. In this context, "accepted" supplies the meaning and logical relationship required by the surrounding sentences; the other choices do not fit the passage's precise claim.

8. A - represents

Choice A is correct. In this context, "represents" supplies the meaning and logical relationship required by the surrounding sentences; the other choices do not fit the passage's precise claim.

9. B - Douglass presents reading as a source of knowledge that also deepens his suffering.

Choice B is correct. The passage or data display directly supports this conclusion: Douglass presents reading as a source of knowledge that also deepens his suffering. The other choices contradict, overstate, or are not established by the supplied evidence.

10. A - It complicates a simple view of the expedition as purely scientific.

Choice A is correct. The passage or data display directly supports this conclusion: It complicates a simple view of the expedition as purely scientific. The other choices contradict, overstate, or are not established by the supplied evidence.

11. A - A forest's ecological complexity cannot be judged only by whether it contains many living trees.

Choice A is correct. The passage or data display directly supports this conclusion: A forest's ecological complexity cannot be judged only by whether it contains many living trees. The other choices contradict, overstate, or are not established by the supplied evidence.

12. B - They suggest that Louise's inner state is shifting as she observes the world.

Choice B is correct. The passage or data display directly supports this conclusion: They suggest that Louise's inner state is shifting as she observes the world. The other choices contradict, overstate, or are not established by the supplied evidence.

13. B - CO2 levels increased in each interval shown, with the largest listed increase occurring from 2000 to 2020.

Choice B is correct. The passage or data display directly supports this conclusion: CO2 levels increased in each interval shown, with the largest listed increase occurring from 2000 to 2020. The other choices contradict, overstate, or are not established by the supplied evidence.

14. C - Duchamp's Fountain predates the other listed works and writings.

Choice C is correct. The passage or data display directly supports this conclusion: Duchamp's Fountain predates the other listed works and writings. The other choices contradict, overstate, or are not established by the supplied evidence.

15. A - The claim is supported because Uranus and Neptune each have more known moons than Earth and Mars.

Choice A is correct. The passage or data display directly supports this conclusion: The claim is supported because Uranus and Neptune each have more known moons than Earth and Mars. The other choices contradict, overstate, or are not established by the supplied evidence.

16. B - By arguing that the novel's warning is aimed at neglected responsibility rather than ambition alone

Choice B is correct. The passage or data display directly supports this conclusion: By arguing that the novel's warning is aimed at neglected responsibility rather than ambition alone The other choices contradict, overstate, or are not established by the supplied evidence.

17. B - Text 2 adds a qualification to Text 1's emphasis on ideas.

Choice B is correct. The passage or data display directly supports this conclusion: Text 2 adds a qualification to Text 1's emphasis on ideas. The other choices contradict, overstate, or are not established by the supplied evidence.

18. C - therefore,

Choice C is correct. The transition "therefore," accurately signals the relationship between the ideas on either side of the blank.

19. D - However,

Choice D is correct. The transition "However," accurately signals the relationship between the ideas on either side of the blank.

20. C - In addition,

Choice C is correct. The transition "In addition," accurately signals the relationship between the ideas on either side of the blank.

21. D - As a result,

Choice D is correct. The transition "As a result," accurately signals the relationship between the ideas on either side of the blank.

22. B - Hemings; her

Choice B is correct. The passage or data display directly supports this conclusion: Hemings; her The other choices contradict, overstate, or are not established by the supplied evidence.

23. D - Series, a group

Choice D is correct. The passage or data display directly supports this conclusion: Series, a group The other choices contradict, overstate, or are not established by the supplied evidence.

24. C - behavior, Jane Goodall changed

Choice C is correct. The passage or data display directly supports this conclusion: behavior, Jane Goodall changed The other choices contradict, overstate, or are not established by the supplied evidence.

25. C - 1964; the

Choice C is correct. The passage or data display directly supports this conclusion: 1964; the The other choices contradict, overstate, or are not established by the supplied evidence.

26. D - South, and she later

Choice D is correct. The passage or data display directly supports this conclusion: South, and she later The other choices contradict, overstate, or are not established by the supplied evidence.

27. B - rotation, especially the planting

Choice B is correct. The passage or data display directly supports this conclusion: rotation, especially the planting The other choices contradict, overstate, or are not established by the supplied evidence.

28. D - signal, later identified as coming from a pulsar, helped

Choice D is correct. The passage or data display directly supports this conclusion: signal, later identified as coming from a pulsar, helped The other choices contradict, overstate, or are not established by the supplied evidence.

29. C - were

Choice C is correct. "were" completes the sentence in a way that follows Standard English conventions and preserves the intended meaning.

30. C - replaces

Choice C is correct. "replaces" completes the sentence in a way that follows Standard English conventions and preserves the intended meaning.

31. B - overlooked

Choice B is correct. "overlooked" completes the sentence in a way that follows Standard English conventions and preserves the intended meaning.

32. C - Beginning in 1843, Atkins's Photographs of British Algae helped make photographic images part of book illustration.

Choice C is correct. It uses the relevant information from the notes to satisfy the stated writing goal: Beginning in 1843, Atkins's Photographs of British Algae helped make photographic images part of book illustration.

33. B - Jacobs argued that neighborhoods work better when they combine uses and support active street life.

Choice B is correct. It uses the relevant information from the notes to satisfy the stated writing goal: Jacobs argued that neighborhoods work better when they combine uses and support active street life.

Module 2

34. A - visible

Choice A is correct. In this context, "visible" supplies the meaning and logical relationship required by the surrounding sentences; the other choices do not fit the passage's precise claim.

35. B - minimized

Choice B is correct. In this context, "minimized" supplies the meaning and logical relationship required by the surrounding sentences; the other choices do not fit the passage's precise claim.

36. A - radical

Choice A is correct. In this context, "radical" supplies the meaning and logical relationship required by the surrounding sentences; the other choices do not fit the passage's precise claim.

37. A - empirical

Choice A is correct. In this context, "empirical" supplies the meaning and logical relationship required by the surrounding sentences; the other choices do not fit the passage's precise claim.

38. C - darkened.

Choice C is correct. In this context, "darkened" supplies the meaning and logical relationship required by the surrounding sentences; the other choices do not fit the passage's precise claim.

39. A - complicit

Choice A is correct. In this context, "complicit" supplies the meaning and logical relationship required by the surrounding sentences; the other choices do not fit the passage's precise claim.

40. A - transformative

Choice A is correct. In this context, "transformative" supplies the meaning and logical relationship required by the surrounding sentences; the other choices do not fit the passage's precise claim.

41. A - resisted

Choice A is correct. In this context, "resisted" supplies the meaning and logical relationship required by the surrounding sentences; the other choices do not fit the passage's precise claim.

42. C - Chesnutt uses the frame narrative to contrast different claims to knowledge.

Choice C is correct. The passage or data display directly supports this conclusion: Chesnutt uses the frame narrative to contrast different claims to knowledge. The other choices contradict, overstate, or are not established by the supplied evidence.

43. B - Repetition in oral traditions can serve important artistic and practical functions.

Choice B is correct. The passage or data display directly supports this conclusion: Repetition in oral traditions can serve important artistic and practical functions. The other choices contradict, overstate, or are not established by the supplied evidence.

44. D - It places Franklin's contribution within a broader claim about how science is remembered.

Choice D is correct. The passage or data display directly supports this conclusion: It places Franklin's contribution within a broader claim about how science is remembered. The other choices contradict, overstate, or are not established by the supplied evidence.

45. C - A social theory can become controversial not only because of evidence but also because of how it is applied.

Choice C is correct. The passage or data display directly supports this conclusion: A social theory can become controversial not only because of evidence but also because of how it is applied. The other choices contradict, overstate, or are not established by the supplied evidence.

46. B - Tambora's 1815 eruption has a higher VEI than the other eruptions listed.

Choice B is correct. The passage or data display directly supports this conclusion: Tambora's 1815 eruption has a higher VEI than the other eruptions listed. The other choices contradict, overstate, or are not established by the supplied evidence.

47. B - Du Bois's work appeared four years after Durkheim's.

Choice B is correct. The passage or data display directly supports this conclusion: Du Bois's work appeared four years after Durkheim's. The other choices contradict, overstate, or are not established by the supplied evidence.

48. C - The listed event associated with Anning occurred earlier than the other listed events.

Choice C is correct. The passage or data display directly supports this conclusion: The listed event associated with Anning occurred earlier than the other listed events. The other choices contradict, overstate, or are not established by the supplied evidence.

49. D - Kuhn emphasizes shared historical frameworks, while Popper emphasizes a logical standard for testing claims.

Choice D is correct. The passage or data display directly supports this conclusion: Kuhn emphasizes shared historical frameworks, while Popper emphasizes a logical standard for testing claims. The other choices contradict, overstate, or are not established by the supplied evidence.

50. C - By agreeing but adding that performance context changes how an instruction-based work is experienced

Choice C is correct. The passage or data display directly supports this conclusion: By agreeing but adding that performance context changes how an instruction-based work is experienced The other choices contradict, overstate, or are not established by the supplied evidence.

51. C - Similarly,

Choice C is correct. The transition "Similarly," accurately signals the relationship between the ideas on either side of the blank.

52. C - For instance,

Choice C is correct. The transition "For instance," accurately signals the relationship between the ideas on either side of the blank.

53. D - At the same time,

Choice D is correct. The transition "At the same time," accurately signals the relationship between the ideas on either side of the blank.

54. B - Thus,

Choice B is correct. The transition "Thus," accurately signals the relationship between the ideas on either side of the blank.

55. C - interactions; the

Choice C is correct. The passage or data display directly supports this conclusion: interactions; the The other choices contradict, overstate, or are not established by the supplied evidence.

56. D - epigraphs, creating

Choice D is correct. The passage or data display directly supports this conclusion: epigraphs, creating The other choices contradict, overstate, or are not established by the supplied evidence.

57. D - galaxies, and her

Choice D is correct. The passage or data display directly supports this conclusion: galaxies, and her The other choices contradict, overstate, or are not established by the supplied evidence.

58. C - Fountain, a porcelain urinal submitted as art in 1917, raised

Choice C is correct. The passage or data display directly supports this conclusion: Fountain, a porcelain urinal submitted as art in 1917, raised The other choices contradict, overstate, or are not established by the supplied evidence.

59. D - systems, geologists

Choice D is correct. The passage or data display directly supports this conclusion: systems, geologists The other choices contradict, overstate, or are not established by the supplied evidence.

60. C - performance, a framework

Choice C is correct. The passage or data display directly supports this conclusion: performance, a framework The other choices contradict, overstate, or are not established by the supplied evidence.

61. C - horizon; the image, later called Earthrise, became

Choice C is correct. The passage or data display directly supports this conclusion: horizon; the image, later called Earthrise, became The other choices contradict, overstate, or are not established by the supplied evidence.

62. B - informed

Choice B is correct. "informed" completes the sentence in a way that follows Standard English conventions and preserves the intended meaning.

63. C - records

Choice C is correct. "records" completes the sentence in a way that follows Standard English conventions and preserves the intended meaning.

64. D - answers

Choice D is correct. "answers" completes the sentence in a way that follows Standard English conventions and preserves the intended meaning.

65. C - Foote's 1856 experiment showed that carbon dioxide-rich air warmed more than ordinary air, a finding relevant to later climate science.

Choice C is correct. It uses the relevant information from the notes to satisfy the stated writing goal: Foote's 1856 experiment showed that carbon dioxide-rich air warmed more than ordinary air, a finding relevant to later climate science.

66. B - LeWitt's wall drawings put his theory into practice: written instructions allowed others to realize works whose guiding idea remained central.

Choice B is correct. It uses the relevant information from the notes to satisfy the stated writing goal: LeWitt's wall drawings put his theory into practice: written instructions allowed others to realize works whose guiding idea remained central.

Math

Module 1

1. C - 7

C - Linear equations in one variable. Subtract 4 on both sides, then divide by 5. This gives $x = 7$.

2. D - 13

D - Median of a data set. After ordering the five values, the middle value is 13.

3. D - 7

D - Linear equations in context. The equation $35 + 6c = 77$ gives $6c = 42$, so $c = 7$.

4. 2

2 - Slope of a line. The slope is $(1 - (-3))/(-2 - (-4)) = 2$.

5. C - $7x = 35$

C - Equivalent linear equations. Subtracting 7 from both sides produces $7x = 35$.

6. D - 3

D - Rates. Time equals distance divided by speed: $18/6 = 3$ hours.

7. B - 24

B - Rates and density. Density is population divided by area: $360/15 = 24$ trees per acre.

8. 20

20 - Evaluating exponential functions. Substitute $t = 2$: $f(2) = 5(2)^2 = 20$.

9. B - 368

B - Percent change. Multiply 320 by 1.15 to obtain 368.

10. A - 240

A - Volume of a rectangular prism. Volume = length $\times$ width $\times$ height = $10(6)(4) = 240$.

11. A - $x = (y + 10)/5$

A - Rearranging formulas. Add 10 to both sides and divide by 5: $x = (y + 10)/5$.

12. A - 6

A - Systems of linear equations. Eliminating one variable gives the solution (6, -4); therefore $x = 6$.

13. 1488

1488 - Inference from a random sample. Apply the sample proportion to the population: 62% of 2,400 is approximately 1,488.

14. B - 5

B - Arc length. Arc length = $(150/360)(2\pi(6))$, so the arc length divided by π is 5.

15. B - 248

B - Surface area of a rectangular prism. Surface area = $2(lw + lh + wh) = 2(60 + 40 + 24) = 248$.

16. C - 12

C - Linear inequalities in context. Solve $20 + 6n \geq 92$. This gives $n \geq 12$, so the least possible number is 12.

17. A - $(x - 4)(x + 3)$

A - Factoring quadratic expressions. The two numbers multiply to -12 and add to -1; they are -4 and 3. Thus the factorization is $(x - 4)(x + 3)$.

18. 26

26 - Using a line of best fit. Substitute $x = 8$ into the model: $y = 2(8) + 10 = 26$.

19. B - $7/25$

B - Trigonometric ratios. $\sin \theta = \text{opposite/hypotenuse} = 7/25$.

20. D - $600(1.03)^2$

D - Exponential growth models. A 3% annual increase uses growth factor $1 + 3/100 = 1.03$, giving $600(1.03)^2$.

21. B - (13, 0)

B - Function transformations. Replacing x by $x - 4$ shifts the graph 4 units right, so the intercept moves to (13, 0).

22. 18

18 - Systems of linear equations in context. Let a and s be the ticket counts. From $a + s = 37$ and $9a + 5s = 257$, elimination gives $a = 18$.

23. A - Table I: (1, 1); (3, 11); (5, 19)

A - Linear inequalities represented by tables. In Table I, each y -value is greater than $4x - 5$ for its corresponding x -value.

24. D - $12/17$

D - Conditional probability. Condition on Plan Y: 24 of the 34 Plan Y respondents were 18 or older, so the fraction is $12/17$.

25. C - $x + 6$

C - Equivalent rational expressions. Factor $x^2 - 16 = (x - 4)(x + 4)$. Cancel $x - 4$, then add 2, giving $x + 6$.

26. D - 4

D - Rational equations. Multiply by x to get $x^2 - x - 12 = 0$. Factoring gives the positive solution $x = 4$.

27. 37

37 - Discriminant and number of solutions. No real solutions require $b^2 - 4k < 0$. Thus $k > 36$, and the least integer is 37.

Module 2

28. B - 11

B - Linear equations in one variable. Add 10 on both sides, then divide by 4. This gives $x = 11$.

29. B - 13

B - Linear equations in context. The equation $24 + 9c = 141$ gives $9c = 117$, so $c = 13$.

30. C - 120

C - Volume of a rectangular prism. Volume = length $\times$ width $\times$ height = $6(4)(5) = 120$.

31. 13

13 - Linear functions represented by tables. The output changes by 5 when x increases by 1, so $f(x) = 5x - 7$. Thus $f(4) = 13$.

32. D - 416

D - Percent change. Multiply 320 by 1.3 to obtain 416.

33. B - $x = (y + 7)/7$

B - Rearranging formulas. Add 7 to both sides and divide by 7: $x = (y + 7)/7$.

34. 34

34 - Using a line of best fit. Substitute $x = 8$ into the model: $y = 3(8) + 10 = 34$.

35. C - $16/3$

C - Arc length. Arc length = $(120/360)(2\pi(8))$, so the arc length divided by π is $16/3$.

36. C - 11

C - Linear inequalities in context. Solve $22 + 5n \geq 77$. This gives $n \geq 11$, so the least possible number is 11.

37. A - 1.5

A - Similar triangles. The scale factor is corresponding large side divided by small side: $9/6 = 1.5$.

38. 86.4

86.4 - Weighted averages. The weighted average is $0.4(78) + 0.6(92) = 86.4$.

39. C - $5/13$

C - Trigonometric ratios. $\sin \theta = \text{opposite/hypotenuse} = 5/13$.

40. C - The tank loses 15 liters of water per minute.
C - Interpreting linear models. The coefficient of t is -15 , so the volume decreases by 15 liters each minute.
41. D - $y = -x + 2$
D - Equation of a line. Using $y = mx + b$ and the given point gives $b = 2$, so the equation is $y = -x + 2$.
42. 6
6 - Quadratic models. The vertex is $(6, 86)$, so the maximum occurs at $t = 6$ seconds.
43. D - $y = 4x + 7$
D - Parallel lines. Parallel lines have slope 4. Substituting $(-1, 3)$ into $y = 4x + b$ gives $b = 7$.
44. A - 26
A - Function composition. First, $g(1) = 6$. Then $f(6) = 5(6) - 4 = 26$.
45. A - $(14, 0)$
A - Function transformations. Replacing x by $x - 5$ shifts the graph 5 units right, so the intercept moves to $(14, 0)$.
46. C - $16(2)^x$
C - Equivalent exponential expressions. Use $b^{a(x + 3)} = b^a x b^3$. The coefficient is $2(2^3) = 16$.
47. 5
5 - Vertex form of quadratic functions. The function is in vertex form $a(x - h)^2 + k$, so its minimum occurs at $x = 5$.
48. C - Table I: $(1, 5); (3, 10); (5, 15)$
C - Linear inequalities represented by tables. In Table I, each y -value is greater than $3x - 1$ for its corresponding x -value.
49. $1/2$
 $1/2$ - Conditional probability. Condition on Plan Y: 15 of the 30 Plan Y respondents were 18 or older, so the fraction is $1/2$.
50. B - $x + 5$
B - Equivalent rational expressions. Factor $x^2 - 9 = (x - 3)(x + 3)$. Cancel $x - 3$, then add 2, giving $x + 5$.
51. C - 6
C - Nonlinear systems. The numbers are roots of $t^2 - 9t + 18 = 0$, which factors as $(t - 3)(t - 6)$. The larger value is 6.
52. B - 17
B - Discriminant and number of solutions. No real solutions require $b^2 - 4k < 0$. Thus $k > 16$, and the least integer is 17.
53. D - 7
D - Rational equations. Multiply by x to get $x^2 - 4x - 21 = 0$. Factoring gives the positive solution $x = 7$.
54. 7
7 - Radical equations. Square both sides, solve the resulting quadratic, and check candidates in the original equation. Only $x = 7$ is valid.