

SAT Reasoning Test™

Question-and-Answer Service
May 2006 Administration
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INSIDE:

- The test questions that counted toward the critical reading, math, and writing scores on the SAT Reasoning Test
- Your essay prompt and all other essay prompts administered on test day
- The correct answers
- The difficulty level of each question
- The instructions for scoring your test

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ESSAY

Time — 25 minutes

The essay gives you an opportunity to show how effectively you can develop and express ideas. You should, therefore, take care to develop your point of view, present your ideas logically and clearly, and use language precisely.

Your essay must be written on the lines provided on your answer sheet—you will receive no other paper on which to write. You will have enough space if you write on every line, avoid wide margins, and keep your handwriting to a reasonable size. Remember that people who are not familiar with your handwriting will read what you write. Try to write or print so that what you are writing is legible to those readers.

Important Reminders:

- A pencil is required for the essay. An essay written in ink will receive a score of zero.
- Do not write your essay in your test book. You will receive credit only for what you write on your answer sheet.
- An off-topic essay will receive a score of zero.

You have twenty-five minutes to write an essay on the topic assigned below.

Think carefully about the issue presented in the following excerpt and the assignment below.

Some people claim that each individual is solely responsible for what happens to him or her. But the claim that we ought to take absolute responsibility for the kinds of people we are and the kinds of lives we lead suggests that we have complete control over our lives. We do not. The circumstances of our lives can make it more or less impossible to make certain kinds of choices.

Adapted from Gordon D. Marino, "I Think You Should Be Responsible; Me, I'm Not So Sure"

Assignment: Are we free to make our own decisions or are we limited in the choices we can make? Plan and write an essay in which you develop your point of view on this issue. Support your position with reasoning and examples taken from your reading, studies, experience, or observations.

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You have twenty-five minutes to write an essay on the topic assigned below.

Think carefully about the issue presented in the following excerpt and the assignment below.

Certainly anyone who insists on condemning all lies should think about what would happen if we could reliably tell when our family, friends, colleagues, and government leaders were deceiving us. It is tempting to think that the world would become a better place without the deceptions that seem to interfere with our attempts at genuine communication. On the other hand, perhaps there is such a thing as too much honesty.

Adapted from Allison Kornet, "The Truth About Lying"

Assignment: Would the world be a better place if everyone always told the complete truth? Plan and write an essay in which you develop your point of view on this issue. Support your position with reasoning and examples taken from your reading, studies, experience, or observations.



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- **An off-topic essay will receive a score of zero.**

The supervisor will tell you how much time you have to write an essay on the topic assigned below.

Think carefully about the issue presented in the following excerpt and the assignment below.

It is not that people dislike being part of a community; it is just that they care about their individual freedoms more. People value neighborliness and social interaction—until being part of a group requires them to limit their freedom for the larger good of the group. But a community or group cannot function effectively unless people are willing to set aside their personal interests.

Adapted from Warren Johnson, *The Future Is Not What It Used To Be*

Assignment: Does the success of a community—whether it is a class, a team, a family, a nation, or any other group—depend upon people's willingness to limit their personal interests? Plan and write an essay in which you develop your point of view on this issue. Support your position with reasoning and examples taken from your reading, studies, experience, or observations.

**ESSAY**

Time — 25 minutes

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- **Do not write your essay in your test book.** You will receive credit only for what you write on your answer sheet.
- **An off-topic essay will receive a score of zero.**

You have twenty-five minutes to write an essay on the topic assigned below.

Think carefully about the issue presented in the following excerpt and the assignment below.

There is an old saying: "A person with one watch knows what time it is; a person with two watches isn't so sure." In other words, a person who looks at an object or event from two different angles sees something different from each position. Moreover, two or more people looking at the same thing may each perceive something different. In other words, truth, like beauty, may lie in the eye of the beholder.

Adapted from Gregory D. Foster, "Ethics: Time to Revisit the Basics"

Assignment: Does the truth change depending on how people look at things? Plan and write an essay in which you develop your point of view on this issue. Support your position with reasoning and examples taken from your reading studies, experience, or observations.

**SECTION 3**

Time — 25 minutes

24 Questions

Turn to Section 3 (page 4) of your answer sheet to answer the questions in this section.**Directions:** For each question in this section, select the best answer from among the choices given and fill in the corresponding circle on the answer sheet.

Each sentence below has one or two blanks, each blank indicating that something has been omitted. Beneath the sentence are five words or sets of words labeled A through E. Choose the word or set of words that, when inserted in the sentence, best fits the meaning of the sentence as a whole.

Example:

Hoping to ----- the dispute, negotiators proposed a compromise that they felt would be ----- to both labor and management.

- (A) enforce . . useful
(B) end . . divisive
(C) overcome . . unattractive
(D) extend . . satisfactory
(E) resolve . . acceptable

(A) (B) (C) (D) ●

- Her political ----- came from her ----- vision of the nation, a vision that included and drew strength from every social constituency.

(A) autonomy . . sweeping
(B) reticence . . mystical
(C) triumph . . restricted
(D) rebellion . . conventional
(E) success . . comprehensive
- As one would expect, the reclusive poet ----- public appearances and invasions of privacy.

(A) rewarded (B) endorsed (C) neglected
(D) invited (E) detested
- Turn-of-the-century actress Sarah Bernhardt had so ----- a talent that she ----- audiences with her diverse and utterly convincing characterizations.

(A) unrealized . . enchanted
(B) protean . . bedazzled
(C) eclectic . . wearied
(D) quixotic . . confounded
(E) mediocre . . spellbound
- In the classroom, Carol was unusually -----; on the playground, however, she became as intractable as the other children.

(A) optimistic (B) mercurial (C) magnanimous
(D) taciturn (E) docile
- Bubble gum is not a topic usually treated seriously, so it is appropriate that this new book tracing the cultural history of bubble gum has a ----- tone.

(A) morbid (B) cathartic (C) pedantic
(D) flippant (E) reticent
- Jamake Highwater manages to touch on the arts of almost every American Indian nation in one reasonably sized book that makes up for its occasional lack of ----- with its remarkable ----- .

(A) specificity . . detail
(B) discontinuity . . concreteness
(C) loftiness . . inaccessibility
(D) profundity . . inclusiveness
(E) uniqueness . . comparability
- Though Judd is typically ----- and reserved in social gatherings, at last night's reception he spoke and acted with uncharacteristic ----- .

(A) loquacious . . alacrity
(B) querulous . . languor
(C) disaffected . . resentment
(D) diplomatic . . decorum
(E) diffident . . aplomb
- Most politicians find television ----- to the ----- of their messages: the medium plays an essential role in propagating their ideas.

(A) crucial . . renunciation
(B) indispensable . . dissemination
(C) detrimental . . communication
(D) tangential . . interpretation
(E) relevant . . legislation



The passages below are followed by questions based on their content; questions following a pair of related passages may also be based on the relationship between the paired passages. Answer the questions on the basis of what is stated or implied in the passages and in any introductory material that may be provided.

Questions 9-10 are based on the following passage.

Line Jazz musician Benny Carter, known for his
sophisticated compositions and arrangements, was
also a virtuoso alto saxophone player. Fellow musicians
5 frequently cited Carter's groundbreaking improvisational
style, which avoided the expected run up and down the
chord changes and instead spread out phrase fragments
over the chord progression. In 1934, just six years after his
first recording, Carter played at the opening of the Apollo
Theater in Harlem and then led the first interracial big band
10 to tour Europe. In the ensuing quarter century, Carter wrote
music for film and television in Hollywood, where he
played a key role in the merger of the trade unions of Black
musicians and White musicians.

9. The author suggests that Carter was not only an outstanding jazz composer but also
- (A) a talented composer of classical music
 - (B) a highly imitative performer
 - (C) an opponent of organized labor
 - (D) an effective participant in social change
 - (E) an astute critic of other musicians' work
10. The passage supports which of the following statements about Carter as a saxophone player?
- (A) He impressed other musicians with his technique.
 - (B) He was less celebrated as an instrumentalist than as a bandleader.
 - (C) He did not perform in public after the 1930's.
 - (D) He confused critics with his unusual technique.
 - (E) He preferred to perform in local venues.

Questions 11-12 are based on the following passage.

Line David Stahle is an expert on the imprints that
climate, fire, and pestilence leave in a tree's growth
rings. His pulse rises when he spots a stand of beat-up
5 old trees because they have stories to tell. For reasons
not fully understood, such trees, growing under harsh
conditions, often live longer and are more sensitive
to fluctuations in weather than healthier trees growing
on better land. Recently, Stahle concluded from rings in
10 bald cypress trees that a severe drought struck Roanoke
Island, North Carolina, in the late sixteenth century.
This might explain why the so-called Lost Colony of
Roanoke died out by 1590.

11. The reference to Stahle's "pulse" (line 3) serves to indicate his level of
- (A) vitality
 - (B) frustration
 - (C) anger
 - (D) playfulness
 - (E) excitement
12. The statement in lines 11-12 ("This . . . 1590") serves primarily to
- (A) advocate a cause
 - (B) offer a theory
 - (C) question a belief
 - (D) modify a claim
 - (E) predict an outcome



Questions 13-24 are based on the following passages.

The first of the following excerpts is adapted from a 1996 essay about an exhibit of paintings by the Dutch artist Johannes Vermeer (1632-1675); the second is from an autobiography written in 1962.

Passage 1

Line
5 Anyone who has read Edward Snow's highly personal and poetic *Study of Vermeer* is unlikely to be able to meet the gaze of the young woman in *The Girl with the Pearl Earring* without feeling something of the confusion and
5 complicity he so eloquently describes. "To meet this young girl's gaze is to be implicated in its urgency," Snow writes. "It is *me* at whom she gazes, with real, unguarded human emotions, and with an intensity that demands something
10 just as real and human in return." Snow describes the girl's gaze as a stew of unresolved contradictions, which only leaves the captivated viewer all the more guilty and confused. Surprise, bewilderment, yearning, acceptance, understanding—in sequence, or all at once—her glance seems to convey all of these. "Suddenly, the most personal
15 responses, drawn from the most private, well-protected regions of the self, are required."

My responses to this and other Vermeer paintings were rarely as personal and passionate as Snow's. To his private testimony regarding *The Girl with the Pearl Earring*, I
20 would only add that a great deal of whatever impact it has on the viewer seems to me to derive from very specific, very visible painterly techniques. The light-colored spots that appear to round her lip; the shift from light paint to darker that forms the ridge below her nose; the dots of
25 white on her pupils that make her eyeballs seem to bulge; the brusque, Cézanne-like rounding of her turban by shifting the blue strokes to black—all of these are as vivid as fingerprints, evidence of Vermeer's presence, of his attempts (as Snow put it) to nurse this face into being.

30 Today the entire painted surface of this work is spider-webbed with a fine network of cracks—what art critics call *cracquelure*—which makes the ability of this imaginary girl to reach out and disturb us from her paint-created, 330-year-old flatness all the more astonishing.

Passage 2

35 There was an empty room at the top of our house and on the wall, between the fireplace and the window, almost hidden in the gloom, hung a small portrait in oils. Dim and yellowed by time, that picture showed the head of a man of strange appearance, for he had long hair and below his
40 pointed beard was some kind of wide collar brim. His face was melancholy and yet it always seemed to me that there was a sneer upon those bearded lips.

45 Children rarely look up when they are playing with toys on the floor, for they are too busy with their own imaginings, but one day, when I had strayed into that

vacant room and was amusing myself, I happened to glance toward the portrait and saw, to my astonishment, that the eyes of the man were watching me. I turned away, then looked up, and once more his eyes met mine. I got to my
50 feet and, as I did so, those eyes turned to watch every movement I made. I backed toward the door and that look still followed me, half-mournful, half-accusing.

I did not tell anyone what had happened, but I did not venture into the room again for more than a few seconds at a time, except when I was with grown-ups. Emboldened by
55 their company, I learned to play a fearful but exciting game. I moved slowly here and there about the room, knowing that wherever I went, those eyes followed me. I pretended not to look, I talked with my elders, then swung around sharply. I was still being watched. The searching
60 gaze was always the same, so melancholy and accusing that I began to feel a sense of guilt, began to wonder what evil I could have committed. Guilt and fear mingled in my mind and I was certain that the stranger was treacherous, that his
65 anger could be terrible when it was aroused. Sometimes greatly daring, I crept up the stairs and opened the door very quietly, very quickly, and peeped in. Every time I did so, his eyes were looking straight at me.

13. Which of the following statements best characterizes the individual perspectives presented in the two passages?

- (A) The first passage presents a critical perspective, whereas the second presents the view of an uneducated art lover.
- (B) The first passage offers the perspective of art historians, whereas the second offers that of an art student.
- (C) The first passage offers the perspective of adult art collectors, whereas the second contains the views of a child prodigy.
- (D) The first passage offers the views of two adults, whereas the second presents a child's perspective.
- (E) The first passage offers the views of two successful artists, whereas the second presents the view of a failed artist.



14. The first paragraph of Passage 1 (lines 1-16) primarily serves to
- (A) indicate how critics have tended to see Vermeer's work in the past
 - (B) outline the major events in the life of Vermeer
 - (C) demonstrate the modern qualities of Vermeer's *The Girl with the Pearl Earring*
 - (D) highlight the significance of Snow's *Study of Vermeer*
 - (E) discuss Snow's response to a painting by Vermeer
15. According to the author of Passage 1, the "confusion" mentioned in line 4 refers to the
- (A) author's initial misunderstanding of Vermeer's painting
 - (B) arcane language Snow uses in his study of Vermeer
 - (C) facial expression of the figure depicted in the painting
 - (D) complex emotions experienced by someone viewing the Vermeer painting
 - (E) intricate arguments a critic has made about Vermeer's genius
16. In context, which of the following observations from Passage 1 most nearly parallels an observation the narrator of Passage 2 might make?
- (A) "To meet this young girl's gaze is to be implicated in its urgency" (lines 5-6)
 - (B) "My responses to this and other Vermeer paintings were rarely as personal and passionate as Snow's" (lines 17-18)
 - (C) "whatever impact it has on the viewer seems to me to derive from very specific, very visible painterly techniques" (lines 20-22)
 - (D) "all of these are as vivid as fingerprints, evidence of Vermeer's presence" (lines 27-28)
 - (E) "Today the entire painted surface of this work is spider-webbed with a fine network of cracks" (lines 30-31)
17. The second paragraph of Passage 1 (lines 17-29) primarily serves to
- (A) illustrate the narrator's emotional response to the painting
 - (B) outline the different ways critics have viewed Vermeer
 - (C) compare the artistic achievement of Cézanne and Vermeer
 - (D) discuss how Vermeer achieved specific effects in his painting
 - (E) describe the materials Vermeer used in his painting
18. In relation to the reaction of the narrator of Passage 2 to the painting, the reaction of the author of Passage 1 can best be described as
- (A) more emotional
 - (B) more analytical
 - (C) more fearful
 - (D) less idealistic
 - (E) less complimentary
19. The first paragraph of Passage 2 (lines 35-42) is primarily concerned with
- (A) providing a physical description of the portrait
 - (B) showing the child's growing fear of being watched
 - (C) revealing how the child overcame an irrational dislike of the portrait
 - (D) discussing some techniques used in the painting
 - (E) explaining the significance of the man in the portrait
20. The reaction of the child in Passage 2 to the painting (lines 43-52) was primarily one of
- (A) abject terror
 - (B) overwhelming curiosity
 - (C) growing unease
 - (D) cool indifference
 - (E) unconcealed admiration



21. The narrator of Passage 2 looks to adults for

- (A) companionship
- (B) amusement
- (C) security
- (D) guidance
- (E) approval

22. The narrator of Passage 2 experiences emotions that are most similar to those of the

- (A) "young woman" (line 3)
- (B) "viewer" (line 11)
- (C) "man" (line 38)
- (D) "grown-ups" (line 55)
- (E) "stranger" (line 64)

23. In line 60, "searching" most nearly means

- (A) hidden
- (B) beseeching
- (C) resourceful
- (D) forlorn
- (E) penetrating

24. The descriptions of the paintings in both passages suggest that paintings

- (A) require critical understanding to be appreciated fully
- (B) cannot withstand the test of time
- (C) can have a powerful impact on the life of a viewer
- (D) need careful restoration to achieve their full power
- (E) may fill viewers with a feeling of nostalgia

NOTE: The reading passages in this test are brief excerpts or adaptations of excerpts from the published material. The ideas contained in them do not necessarily represent the opinions of the College Board or Educational Testing Service. To make the test suitable for testing purposes, we may in some cases have altered the style, contents, or point of view of the original.

STOP

If you finish before time is called, you may check your work on this section only.
Do not turn to any other section in the test.



SECTION 4

Time — 25 minutes

20 Questions

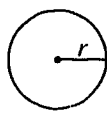
Turn to Section 4 (page 5) of your answer sheet to answer the questions in this section.

Directions: For this section, solve each problem and decide which is the best of the choices given. Fill in the corresponding circle on the answer sheet. You may use any available space for scratchwork.

Notes

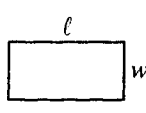
- The use of a calculator is permitted.
- All numbers used are real numbers.
- Figures that accompany problems in this test are intended to provide information useful in solving the problems. They are drawn as accurately as possible EXCEPT when it is stated in a specific problem that the figure is not drawn to scale. All figures lie in a plane unless otherwise indicated.
- Unless otherwise specified, the domain of any function f is assumed to be the set of all real numbers x for which $f(x)$ is a real number.

Reference Information

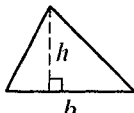


$$A = \pi r^2$$

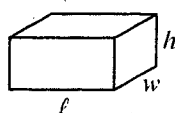
$$C = 2\pi r$$



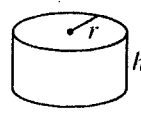
$$A = \ell w$$



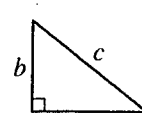
$$A = \frac{1}{2}bh$$



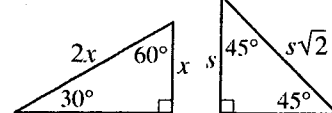
$$V = \ell wh$$



$$V = \pi r^2 h$$



$$c^2 = a^2 + b^2$$



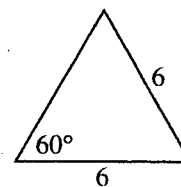
Special Right Triangles

The number of degrees of arc in a circle is 360.

The sum of the measures in degrees of the angles of a triangle is 180.

1. Which of the following triples (x, y, z) does NOT satisfy the equation $\frac{xy}{z} = 6$?

- (A) (9, 2, 3)
 (B) (6, 6, 6)
 (C) (6, 4, 4)
 (D) (6, 3, 2)
 (E) (4, 3, 2)

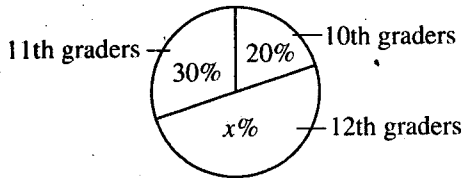


2. What is the perimeter of the triangle shown above?
- (A) 18
 (B) 16
 (C) 15
 (D) 12
 (E) 9

GO ON TO THE NEXT PAGE



DEBATING TEAM MEMBERSHIP



3. Based on the information in the graph above, what percent of the membership of the debating team is made up of 11th and 12th graders?

- (A) 40%
(B) 50%
(C) 60%
(D) 70%
(E) 80%

5. If three times a number x is twelve more than x , what is x ?

- (A) 2
(B) 3
(C) 4
(D) 6
(E) 9

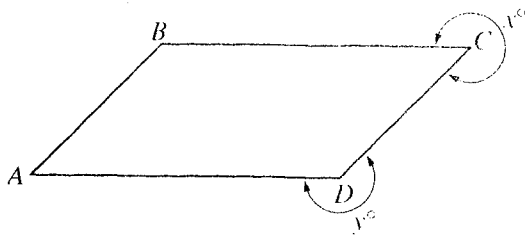
6. Today, Joaquín has 45 cents in his piggy bank and Marcy has 93 cents in her piggy bank. Starting tomorrow, Joaquín will add 6 cents to his bank each day and Marcy will add 4 cents to her bank each day. In how many days will the amount in Joaquín's bank first be greater than the amount in Marcy's bank?

- (A) 5
(B) 15
(C) 20
(D) 25
(E) 58

4. Points P , Q , R , and S lie on a line in that order. Q is the midpoint of \overline{PR} . If the length of \overline{RS} is 3 and the length of \overline{PS} is 13, what is the length of \overline{QR} ?

- (A) 5
(B) 6
(C) 8
(D) 9
(E) 10

GO ON TO THE NEXT PAGE 



Note: Figure not drawn to scale.

7. In the figure above, $ABCD$ is a parallelogram. If $x = 300$, what is the value of y ?

(A) 200
(B) 240
(C) 280
(D) 320
(E) 330

8. If $xy = 2$, $yz = 5$, $xz = 10$, and $x > 0$, then $xyz =$

(A) 5
(B) 10
(C) 17
(D) 50
(E) 100

	x	y	x	y	x
m					
m					
m					
m					

9. In the figure above, all angles are right angles and $y = 2x$. If m , x , and y are lengths of the segments indicated, what fraction of the figure is shaded?

(A) $\frac{1}{7}$
(B) $\frac{1}{5}$
(C) $\frac{3}{14}$
(D) $\frac{3}{10}$
(E) $\frac{5}{14}$

10. When a certain odd number is divided by 5, the remainder is 1. Which digit must be in the units place of this odd number?

(A) 1
(B) 3
(C) 5
(D) 7
(E) 9

GO ON TO THE NEXT PAGE



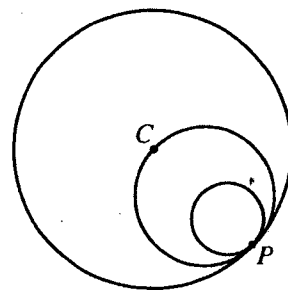
11. Let the functions f , g , and h be defined by $f(x) = x^2$, $g(x) = x$, and $h(x) = f(x) - g(x)$. For $x > 10$, which of the following describes what happens to h as x gets farther from 10?
- (A) h increases only.
 (B) h decreases only.
 (C) h stays the same.
 (D) h decreases at first and then increases.
 (E) h increases at first and then decreases.

If x is an integer between 2,000 and 2,016 and if the sum of the digits of x is even, then x must be even.

13. Which of the following is one possible value of x that proves that the statement above is FALSE?
- (A) 2,008
 (B) 2,009
 (C) 2,010
 (D) 2,011
 (E) 2,012

12. A certain physical fitness test lasts a total of 3 hours. Each part of the test requires the same amount of time, and 12-minute breaks are included between consecutive parts. If there are a total of 3 breaks during the 3 hours, what is the required time, in minutes, for each part of the test?

- (A) 33
 (B) 36
 (C) 38
 (D) 45
 (E) 48



14. The centers of the three circles above lie on segment \overline{CP} (not shown), and the three circles are mutually tangent at point P . The center of the largest circle is point C , and the center of the middle circle lies on the smallest circle. If the radius of the smallest circle is 5, what is the circumference of the largest circle?
- (A) 10π
 (B) 20π
 (C) 30π
 (D) 40π
 (E) 60π

GO ON TO THE NEXT PAGE



15. Let a "prd" number be defined as one in which the product of the positive divisors of the number, not including the number itself, is greater than the number. Which of the following is a prd number?

(A) 8
(B) 15
(C) 18
(D) 21
(E) 27

16. If $k^2x = kx$ for every value of x , what are all possible values of k ?

(A) 0 only
(B) 1 only
(C) 0 or 1 only
(D) 1 or -1 only
(E) 0, 1, or -1

17. Tickets for a community play cost \$2.00 for a child and \$4.00 for an adult. If 200 tickets were sold for a total of \$700, what was the ratio of the number of children's tickets sold to the number of adults' tickets sold?

(A) 1 to 4
(B) 1 to 3
(C) 1 to 2
(D) 4 to 7
(E) 2 to 3

18. The average (arithmetic mean) of 3 numbers is x . If one of the numbers is y , what is the average of the remaining 2 numbers in terms of x and y ?

(A) $\frac{x}{3}$
(B) $\frac{2y - x}{3}$
(C) $\frac{2x - y}{3}$
(D) $\frac{3y - x}{2}$
(E) $\frac{3x - y}{2}$

GO ON TO THE NEXT PAGE 



19. A container in the shape of a right circular cylinder has an inside base radius of 4 inches and an inside height of 9 inches. This cylinder is completely filled with water. All of the water is then poured into a second right circular cylinder with a larger inside base radius of 9 inches. What must be the minimum inside height, in inches, of the second container?

- (A) $\frac{4}{3}$
- (B) $\frac{16}{9}$
- (C) $\frac{9}{4}$
- (D) 4
- (E) 6

20. In the xy -plane, the graph of the function f is a line.

If $f(2) = 7$ and $f(12) = 1$, what is the value of $f(7)$?

- (A) 5.2
- (B) 5
- (C) 4.6
- (D) 4
- (E) 3.4

STOP

If you finish before time is called, you may check your work on this section only.
Do not turn to any other section in the test.



SECTION 5

Time — 25 minutes

24 Questions

Turn to Section 5 (page 5) of your answer sheet to answer the questions in this section.

Directions: For each question in this section, select the best answer from among the choices given and fill in the corresponding circle on the answer sheet.

Each sentence below has one or two blanks, each blank indicating that something has been omitted. Beneath the sentence are five words or sets of words labeled A through E. Choose the word or set of words that, when inserted in the sentence, best fits the meaning of the sentence as a whole.

Example:

Hoping to ----- the dispute, negotiators proposed a compromise that they felt would be ----- to both labor and management.

- (A) enforce . . useful
(B) end . . divisive
(C) overcome . . unattractive
(D) extend . . satisfactory
(E) resolve . . acceptable

(A) (B) (C) (D) ●

- Canaries are often said to have ----- voices because they make such sweet, harmonious sounds.
(A) insistent (B) unnatural (C) melodious
(D) inaudible (E) strident
- The ----- plots of Agatha Christie's detective stories reflect the complexities hidden beneath the simple appearances of English village life.
(A) intricate (B) discrete (C) straightforward
(D) elementary (E) vacuous

- Government officials authorized ----- because they wanted to have a complete enumeration of the country's population.

(A) a discontinuance (B) an appointment
(C) a waiver (D) a census (E) a levy

- Even in her fiction writing, Denise Chavez functions as a kind of historian in that she ----- the real experiences of Hispanic women through her characters.

(A) predicts (B) defends (C) chronicles
(D) averts (E) surmises

- Fanatically committed to one political cause, Anderson was a -----, maintaining an exclusively ----- outlook.

(A) libertine . . provincial
(B) zealot . . partisan
(C) patriot . . indulgent
(D) maverick . . altruistic
(E) rebel . . vicarious



The passages below are followed by questions based on their content; questions following a pair of related passages may also be based on the relationship between the paired passages. Answer the questions on the basis of what is stated or implied in the passages and in any introductory material that may be provided.

Questions 6-9 are based on the following passages.

Passage 1

Line Many scientists tend to split the universe into two
5 realms: science and irrationality. They believe that
"truth" is only what can be experimentally proved and
that "understanding" is only what fits into the straitjacket
of logic. This approach may work beautifully within the
10 scope of questions that science can answer, but life is a far
richer tapestry than the threads of logic alone can weave.
It is myopic to define "reason" so narrowly that one can't
see the other threads. Science can teach us many things,
but there are some truths science cannot measure.

Passage 2

15 After spending years training in Buddhist meditative
practices, neurologist James Austin got his first taste of
spiritual enlightenment while waiting on a London train
platform, idly glancing toward the Thames River. Instantly,
the panorama of sky and buildings acquired a sense of what
20 he calls "absolute reality, intrinsic rightness, and ultimate
perfection." He suddenly shed his formerly unshakable
assumption that he was an individual, separated from
the rest of the world by a skin suit. Within seconds, other
insights dawned.

25 Austin described in a book how this experience spurred
him to study brain processes that underlie spiritual
experiences. But the harsh reality of science is that those
who study mysticism are rarely taken seriously. For
scientists, claims of mystical enlightenment have long
smacked of self-deception, charlatanism, or both.

6. The "scientists" referred to in line 1, Passage 1, would most likely view the "book" mentioned in line 21, Passage 2, with

- (A) respect
- (B) curiosity
- (C) objectivity
- (D) ambivalence
- (E) skepticism

7. James Austin (in Passage 2) would most likely respond to the assertion in lines 6-7 of Passage 1 ("life is . . . weave") by

- (A) agreeing and citing his own experience as evidence
- (B) agreeing and citing specific scientific findings as proof
- (C) declining to offer an opinion either way
- (D) disagreeing and citing the beliefs of most scientists
- (E) disagreeing and citing Buddhist texts for support

8. The author of Passage 1 would most likely characterize the "insights" mentioned in Passage 2, line 20, as

- (A) mystical experiences that have little relevance to most people's lives
- (B) truths that can be arrived at only through rigorous scientific studies
- (C) potentially valuable perceptions that most scientists would not consider legitimate
- (D) sensory impressions that are unlikely to yield meaningful information
- (E) personal experiences that scientists should not attempt to study

9. Unlike Passage 1, Passage 2 makes use of

- (A) generalization
- (B) anecdote
- (C) figurative language
- (D) literary allusion
- (E) technical jargon



Questions 10-18 are based on the following passage.

The following passage by an Asian American author has been adapted from a short story published in 2000. Caroline and Marcella are former friends; Dean is Caroline's current boyfriend.

Line Caroline Yip and Marcella Ahn had a history. They had
5 both lived in Cambridge, Massachusetts, in their twenties,
and for several years they had been the best of friends—
inseparable, really. But then their first books had come
out at the same time, Marcella's from a major New York
publisher, Caroline's from a small, albeit respected press.
Both had very similar jacket photos, the two women
looking solemn and precious, hair flowing in full regalia.
An unfortunate coincidence. Critics couldn't resist
10 reviewing them together, mocking the pair, even then,
as "The Hair Poets," "The Braids of the East," and "The
New Asian Poe-tresses."

But Marcella escaped these barbs relatively unscathed.
Her book was taken seriously, and she was even compared
15 to Marianne Moore and Emily Dickinson. Her poetry
was highly erudite, usually beginning with mundane
observations about birds or plant life, then slipping into
long, abstract meditations on entropy and inertia, the Bible,
evolution, and death, punctuated by the briefest mention of
20 personal deprivations. Or so the critics said. Dean still had
the book from the library, and he couldn't make heads or
tails of it.

In contrast, Caroline's book had been skewered. She
wrote in a slangy, contemporary voice, full of topical,
25 popculture allusions. She wrote about Marilyn Monroe
and moo goo gai pan, about alien babies and her strange,
loopy obsession with poultry. She was roundly dispatched
as a mediocre talent.

Worse, Caroline said, was what happened afterwards.
30 Marcella began to thwart her at every turn. Teaching jobs,
coveted magazine publications, awards—everything
Caroline applied for, Marcella got. It didn't hurt that
Marcella was a shameless schmoozer, flirting and
networking with anyone who might be of use, all the while
35 ridiculing them behind their backs. The fact was, Marcella
was rich. Her father was a shipping tycoon, and she had
a trust fund in the millions. She didn't need any of these
pitifully small sinecures which would have meant a
livelihood to Caroline, and it became obvious that the only
40 reason Marcella was pursuing them at all was to taunt her.

"She's a vulture, a vampire," Caroline told Dean. "You
know she won't go out in the light of day? She stays up
until four, five in the morning and doesn't wake up until
past noon."

45 And then there was the matter of Evan Paviromo, the
English-Italian editor of a literary journal whom Caroline
had dated for seven years, waiting patiently for them to get

married and have children. He broke it off one day without
explanation. She dogged him. Why? Why was he ending it?
50 She refused to let him go without some sort of answer.
Finally he complied. "It's something Marcella said," he
admitted.

At first Caroline feared they were involved romantically,
but the truth was more vicious. "Marcella told me she
55 admired me," Evan said, "that I was far more generous than
she could ever be. She said she just wouldn't be able
to stay with someone whose work she didn't really respect.
I thought about that, and I decided I'm not that generous
after all. It's something that would eat away at me, that's
60 bothered me all along. It's something I can't abide."

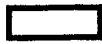
Caroline fled to California, eventually landing in the
little nondescript town of Rosarita Bay. She completely
disengaged herself from the poetry world. She was still
writing every day, excruciating as it was for her, but she
65 had not attempted to publish anything in six years. She
was thirty-seven now, and a waitress—the breakfast shift
at a diner, the dinner shift at a barbecue joint. Her feet had
grown a full size from standing so much, and she was
broke. But she had started to feel like her old self again,
70 healthier, more relaxed, sleeping better. Dean had a lot to
do with it, she said. She was happy—or as happy as it was
possible for a poet to be. Until now. Until Marcella Ahn
suddenly arrived.

10. The word "history" (line 1) refers to a

- (A) chronological record of actual occurrences
- (B) long-standing and noteworthy relationship
- (C) formal written account of an incident
- (D) branch of knowledge focused on the past
- (E) creative work based on historical events

11. In context, what is the primary significance of the
two similar "jacket photos" (line 7) ?

- (A) They served as a way for critics to link two
newly published poets.
- (B) They provided an opportunity for two poets
to announce their friendship.
- (C) They revealed the animosity that had always
existed between the two poets.
- (D) They mirrored the similarity of topics in
the two books of poetry.
- (E) They reflected the casualness and informality
of the language used in the poems.



12. The tone of the characterizations quoted in lines 11-12 is best described as
- (A) morose
 - (B) curious
 - (C) sardonic
 - (D) threatening
 - (E) incredulous
13. The tone of the statement in line 20 ("Or . . . said") is best described as
- (A) impatient
 - (B) apologetic
 - (C) reflective
 - (D) anxious
 - (E) unconvinced
14. Lines 25-27 ("She . . . poultry") serve to provide examples of
- (A) particular references found in Caroline's poetry
 - (B) diverse subjects about which Caroline knew surprisingly little
 - (C) allusions in Caroline's poetry that puzzled critics
 - (D) topics that should not be mentioned even in modern poetry
 - (E) images that are found also in Marcella's poetry
15. The "reason" mentioned in line 40 was most "obvious" (line 39) to
- (A) magazine publishers
 - (B) award committees
 - (C) Marcella's father
 - (D) Dean
 - (E) Caroline
16. In context, lines 45-50 ("And . . . answer") suggest that Caroline's response to Evan's action encompassed all of the following EXCEPT
- (A) shock
 - (B) disbelief
 - (C) confusion
 - (D) persistence
 - (E) retaliation
17. Which is most analogous to the situation described in lines 62-70 ("She . . . better") ?
- (A) A ballerina achieves early success and fame but then is forced by personal problems to stop dancing.
 - (B) A novelist, undaunted by many initial rejections, continues to try to publish her stories.
 - (C) An artist is unable to support himself with his painting but finds contentment working as a clerk.
 - (D) A scholar, discouraged by continuous harsh criticism of his writings, gradually becomes despondent.
 - (E) A violinist, skilled at interpreting the works of others, is unsuccessful at composing her own music.
18. The statement in lines 71-72 ("She . . . be") suggests which of the following about poets?
- (A) They tend to be reclusive and uncommunicative.
 - (B) They are by nature inclined to be discontented.
 - (C) They rarely reveal their true feelings.
 - (D) Their poetry is shaped by real and imaginary experiences.
 - (E) Those who are most successful express a range of emotions in their poems.



Questions 19-24 are based on the following passage.

This passage is excerpted from a 1996 book about Thomas Jefferson, statesman and third President of the United States.

According to the National Park Service, about a million tourists pay their respects to Thomas Jefferson in his memorial each year. On the March day in 1993 that I visited, several hundred tourists walked up the marble steps and looked up to the four inscribed panels on the walls and read the words, often moving their lips and murmuring the famous phrases to themselves. The first panel, which attracted more attention than the others, contained the most famous and familiar words in American history: "We hold these truths to be self-evident, that all men are created equal, that they are endowed by their Creator with certain inalienable Rights, that among these are Life, Liberty, and the pursuit of Happiness."

But what do these words mean? How do they create magic?

Merely to ask these questions is to risk being accused of some combination of treason and sacrilege, since self-evident truths are not meant to be analyzed: that is what being self-evident is all about. But when these words are stripped of the patriotic haze, read straightaway and literally, two monumental claims are being made here. The explicit claim is that the individual is the sovereign unit in society; the individual's natural state is freedom from and equality with all other individuals; this is the natural order of things. The implicit claim is that all restrictions on this order are immoral transgressions, violations of what God intended; individuals liberated from such restrictions will interact with their fellows in a harmonious scheme requiring no external discipline and producing maximum happiness.

This is a wildly idealistic message, the kind of good news simply too good to be true. It is, truth be told, a recipe for anarchy. Any national government that seriously attempted to operate in accord with these principles would be committing suicide. But, of course, the words were not intended to serve as an operational political blueprint. Jefferson was not a profound political thinker. He was, however, an utterly brilliant rhetorician and visionary. The genius of his vision is to propose that our deepest yearnings for freedom are in fact attainable. The genius of his rhetoric is to articulate irreconcilable human urges at a sufficiently abstract level to mask their mutual exclusiveness. Jefferson guards the American Creed at this inspirational level, which is inherently immune to scholarly skepticism and a place where ordinary Americans can congregate to speak the magic words together. The

Jeffersonian magic works because we permit it to function at a rarified region where real-life choices do not have to be made.

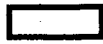
Jefferson's words allow American citizens to come together and simultaneously embrace seemingly opposite propositions. They can believe, for example, that health care and a clean environment for all Americans are natural rights, but that the federal bureaucracies and taxes required to implement medical and environmental programs violate individual independence. The primal source of Jefferson's modern-day appeal is that he provides the sacred space—not really common ground but more a midair location floating above all the political battle lines—where Americans can come together on such issues and, at least for that moment, become a chorus instead of a cacophony.

19. Lines 3-7 ("On the . . . themselves") primarily serve to

- (A) emphasize the austere beauty of the Jefferson Memorial
- (B) suggest that many Americans are unfamiliar with Jefferson's philosophy
- (C) indicate the reverence people feel for Jefferson's words
- (D) show the strong regard that people have for history
- (E) point out that Americans experience different degrees of patriotism

20. The author suggests that "to ask these questions" (line 16) is to risk being considered

- (A) ignorant
- (B) insincere
- (C) heretical
- (D) sentimental
- (E) impractical



21. The passage as a whole suggests that the “two monumental claims” (line 21) are
- (A) evidence of Jefferson’s profound political thinking
 - (B) useful principles that can help to solve everyday problems
 - (C) more important to Americans than they probably should be
 - (D) incompatible when put into practice
 - (E) irrelevant at this point in American history
22. The author’s view of “the implicit claim” (line 25) might best be characterized as
- (A) dismissive
 - (B) defensive
 - (C) reverent
 - (D) resentful
 - (E) skeptical
23. The author uses the phrase “rarified region” (line 48) to
- (A) hint that only a few people truly appreciate the originality of Jefferson’s philosophy
 - (B) indicate that Jefferson accurately predicted the political problems of the future
 - (C) suggest that Jefferson’s world was remote from the realities faced by Americans today
 - (D) imply that Jefferson’s ideas are too obscure for the average person to grasp
 - (E) emphasize the unique status that Jefferson’s assertions enjoy
24. The author would most likely describe the “federal bureaucracies and taxes” (line 54) as
- (A) measures that limit some rights in order to safeguard other rights
 - (B) excessive and unnecessary violations of individual freedom
 - (C) examples of the kinds of governmental infringement that Jefferson could not foresee
 - (D) proof that Jefferson’s words have an influence on public policy today
 - (E) regulations that reveal the true lack of freedom in America

STOP

If you finish before time is called, you may check your work on this section only.
Do not turn to any other section in the test.

**SECTION 6**

Time — 25 minutes

35 Questions

Turn to Section 6 (page 6) of your answer sheet to answer the questions in this section.**Directions:** For each question in this section, select the best answer from among the choices given and fill in the corresponding circle on the answer sheet.

The following sentences test correctness and effectiveness of expression. Part of each sentence or the entire sentence is underlined; beneath each sentence are five ways of phrasing the underlined material. Choice A repeats the original phrasing; the other four choices are different. If you think the original phrasing produces a better sentence than any of the alternatives, select choice A; if not, select one of the other choices.

In making your selection, follow the requirements of standard written English; that is, pay attention to grammar, choice of words, sentence construction, and punctuation. Your selection should result in the most effective sentence—clear and precise, without awkwardness or ambiguity.

EXAMPLE:

Laura Ingalls Wilder published her first book and she was sixty-five years old then.

- (A) and she was sixty-five years old then
- (B) when she was sixty-five
- (C) at age sixty-five years old
- (D) upon the reaching of sixty-five years
- (E) at the time when she was sixty-five

(A) (B) (C) (D) (E)

1. It being agreed by world leaders that there should be a major organized effort to address poverty, illiteracy, and disease; they then set goals by which progress could be measured.
 - (A) It being agreed by world leaders
 - (B) World leaders agreed
 - (C) World leaders who should agree
 - (D) World leaders being in agreement
 - (E) World leaders, in agreement
2. At lunchtime, Kevin paid for Anita's hamburger; the reason is because he owed her money.
 - (A) hamburger; the reason is because he owed
 - (B) hamburger; this was because he owed
 - (C) hamburger, in that he owed
 - (D) hamburger because he owed
 - (E) hamburger because of owing
3. Reading poetry aloud usually helps me understand it better.
 - (A) Reading poetry aloud
 - (B) Poetry, read aloud,
 - (C) To read poetry aloud, this
 - (D) If one reads poetry aloud it
 - (E) I read poetry aloud, it
4. One of the most beautiful trees in North America, the chestnut tree brought nearly to extinction by a fungus during the chestnut blight of 1909.
 - (A) tree brought nearly to extinction by a fungus
 - (B) tree, which a fungus brought nearly to extinction
 - (C) tree, but a fungus brought it nearly to extinction
 - (D) tree was brought nearly to extinction by a fungus
 - (E) tree, having been brought nearly to extinction by a fungus
5. A hot-air balloon rises when the air inside it becomes warm, drops when that air cools, and moves sideways when blown by the wind.
 - (A) moves sideways when blown by the wind
 - (B) moving sideways when the wind blows
 - (C) when the wind blows, the movement is sideways
 - (D) caused to move sideways when blown by the wind
 - (E) it is blown by the wind, causing sideways movement



6. The supply clerk was careless in taking inventory, its leading to a shortage of some items and an excess of others.
- (A) The supply clerk was careless in taking inventory, its leading
 - (B) In taking inventory the supply clerk was careless, this carelessness led
 - (C) The supply clerk was careless in taking inventory and it led
 - (D) The supply clerk's carelessness in taking inventory led
 - (E) The inventory, it was taken carelessly by the supply clerk, which led
7. In 1903, physicist Marie Curie was the first woman to win the Nobel Prize, moreover, in 1911, she became the first person to win it a second time.
- (A) physicist Marie Curie was the first woman to win the Nobel prize, moreover,
 - (B) Marie Curie, a physicist, won the Nobel prize, which was the first time a woman won it, then,
 - (C) physicist Marie Curie became the first woman to win the Nobel Prize;
 - (D) Marie Curie won the Nobel Prize for the first time as a woman who was a physicist, and
 - (E) physicist Marie Curie became the first winner of the Nobel Prize among women, moreover,
8. Sometimes called "the founder of art in Texas," a sculpture of William Jennings Bryan was completed by Elisabet Ney in her Austin studio in 1899.
- (A) a sculpture of William Jennings Bryan was completed by Elisabet Ney in her Austin studio in 1899
 - (B) William Jennings Bryan's sculpture was completed by Elisabet Ney in her Austin studio in 1899
 - (C) in her Austin studio, Elisabet Ney having completed a sculpture of William Jennings Bryan in 1899
 - (D) because a sculpture of William Jennings Bryan was completed in 1899 in her Austin studio by Elisabet Ney
 - (E) Elisabet Ney completed a sculpture of William Jennings Bryan in her Austin studio in 1899
9. Professor Brand, who enjoys welcoming international students to her home on Thanksgiving, served the traditional turkey dressed in Pilgrim clothing.
- (A) served the traditional turkey dressed in Pilgrim clothing
 - (B) served the traditional turkey, dressing in Pilgrim clothing
 - (C) serving the traditional turkey and dressed in Pilgrim clothing
 - (D) dressed in Pilgrim clothing to serve the traditional turkey
 - (E) dressed in Pilgrim clothing and the traditional turkey was served
10. Chop suey originated in the United States, and many people assume that it was China.
- (A) and many people assume that it was
 - (B) many people assuming
 - (C) not, as many people assume, in
 - (D) not what many people assume being
 - (E) but many people assume it to be
11. The discrepancy between the richness of Shakespeare's works and how much biographical information is lacking has not diminished over centuries.
- (A) how much biographical information is lacking
 - (B) the lacking of much biographical information
 - (C) the lack of biographical information about Shakespeare
 - (D) there is a lack of biographical information
 - (E) Shakespeare's biography



The following sentences test your ability to recognize grammar and usage errors. Each sentence contains either a single error or no error at all. No sentence contains more than one error. The error, if there is one, is underlined and lettered. If the sentence contains an error, select the one underlined part that must be changed to make the sentence correct. If the sentence is correct, select choice E. In choosing answers, follow the requirements of standard written English.

EXAMPLE:

The other delegates and him immediately
 A B C
 accepted the resolution drafted by the
 D
 neutral states. No error
 E

(A) ● (C) (D) (E)

12. Global warming trends, what play a big role in
 A
 the melting of tropical glaciers like those on
 B
 Mt. Kilimanjaro, may cause many ice caps
 C
 to vanish within 20 years. No error
 D E
13. Charles Dickens' *Great Expectations* is a novel
 in which the main character becomes so obsessed with
 A B
 the idea of becoming a gentleman that his moral
 C D
 judgment is temporarily affected. No error
 E
14. The candidate called for medical insurance reform,
 A
 but to me he seemed less interested in
 the plight of uninsured citizens than in whether
 B
 enough is registered to vote. No error
 C D E
15. Our new neighbors are the most sociable people we
 A
 have ever met, and our chief interests, cooking and
 B C
 politics, are similar to them. No error
 D E
16. Katherine felt that she has not had
 A
 any understanding of the highly intricate workings
 B C
 of the stock market until her uncle took her to the
 D
 New York Stock Exchange. No error
 E
17. It was fortunate that the police officer arrived quickly
 A
 because she was the only person at the scene who
 B
 was able to investigate the accident calm and
 C D
 dispassionately. No error
 E
18. During rehearsals, the director praised the actors
 which had supporting roles more often than those
 A B C
 with the most demanding roles. No error
 D E
19. What becomes apparent from assessing scientific
 A B
 accomplishments is that only relatively recently have
 C
 the necessary technology been developed for solving
 D
 the mysteries of genetics. No error
 E



20. Because his experience in the naval medical corps had
A
been rewarding, Bob applied to medical school after
B C
he was discharged from the navy. No error
D E
21. Ocean currents that start in the warm waters of the
Pacific and Indian Oceans are initially low in salt
A B
content but become more saline as it flows northward
C D
into colder regions. No error
E
22. Plants grown for their flowers should be treated with
A B
a low-nitrogen fertilizer because excessive nitrogen
promotes the growth of leaves at the expense of
C D
flowers. No error
E
23. Those who defend sequoia trees from loggers
A B
justified doing so on the grounds that such trees
C D
are irreplaceable. No error
E
24. Extending along several city blocks are a row of
A B
ginkgo trees, their leaves turning a brilliant yellow
C D
now that summer is over. No error
E
25. Africa's Kanem empire, after enduring for over a
A
thousand years, is believed to have fallen into decline
B C
when trade centers shift outside its boundaries.
D
No error
E
26. Opposite to most people I know, Annie, a good
A
photographer herself, actually enjoys seeing
B C
the photographs that her friends take on their
D
vacations. No error
E
27. My roommate, a drama major, claimed that Ibsen's
A
plays, unlike Ionesco, are totally conventional in
B C
their style. No error
D E
28. Not very particular in nesting sites, house wrens
A B
may nest in birdhouses, mailboxes, building
C
crevices—even in the pockets of hanging laundry.
D
No error
E
29. At the reception were the chattering guests, the
A B C
three-tiered cake, and the lively music that have
become characteristic of many wedding celebrations.
D
No error
E



Directions: The following passage is an early draft of an essay. Some parts of the passage need to be rewritten.

Read the passage and select the best answers for the questions that follow. Some questions are about particular sentences or parts of sentences and ask you to improve sentence structure or word choice. Other questions ask you to consider organization and development. In choosing answers, follow the requirements of standard written English.

Questions 30-35 refer to the following passage.

(1) History is the study not only of cataclysmic events but also of seemingly insignificant things, like the chili pepper.

(2) The chili pepper was known only in the Americas.

(3) When Columbus ran into the chili pepper, he mistakenly thought it was related to black pepper, which was widely traded in Europe. (4) Once Columbus introduced the chili pepper to Europe, it spread quickly throughout Europe and Asia.

(5) The introduction of the chili pepper had a tremendous impact on the balance of power among the European countries that were already involved in the black pepper trade, and, what was even larger in scope, on Asian and European cultures. (6) Before the discovery of chili pepper, black pepper was considered so valuable that it was the focus of international rivalry. (7) Egypt and the Italian city-states, Venice and Genoa, wanted to retain exclusive control of the black pepper trade and the economic power that went along with it.

(8) Spain's explorers went to sea, and one reason for it was black pepper. (9) They wanted to get it by bypassing the trade route controlled by the Arabs and Italians. (10) But instead of black pepper, they found the chili pepper and discovered that it had many advantages over black pepper. (11) Among them was that it was a lot easier to grow than black pepper: it could grow in cool regions as well as hot ones.

30. In context, which should be added to the beginning of sentence 2 ?

- (A) Because it was unknown in Europe and Asia,
- (B) To the astonishment of most people,
- (C) Until the expeditions of the European explorer, Columbus,
- (D) Moreover, after the years of European exploration
- (E) Why chili peppers have turned out to be so important is that

31. Which is the best replacement for "ran into" in sentence 3 ?

- (A) encountered
- (B) met up with
- (C) observed
- (D) confronted
- (E) got hold of

32. Of the following, which is the best revision for the underlined part of sentence 5 (reproduced below) ?

The introduction of the chili pepper had a tremendous impact on the balance of power among the European countries that were already involved in the black pepper trade, and, what was even larger in scope, on Asian and European cultures.

- (A) trade, not to mention on
- (B) trade, but also
- (C) trade, an impact also on
- (D) trade; it also was affecting
- (E) trade, and they also affected

33. Which of the following would most improve the third paragraph (sentences 5-7) ?

- (A) A more detailed discussion of how the introduction of the chili pepper influenced Asian and European cultures
- (B) An account of earlier attempts to take control of the black pepper trade away from Egypt and the Italian city-states
- (C) More information about how black pepper came to be so expensive
- (D) A list of the countries that were affected by the introduction of the chili pepper
- (E) A comparison of the price of black pepper in different countries in Europe during the Middle Ages



34. In context, which is the best way to combine sentences 8 and 9 (reproduced below) ?

Spain's explorers went to sea, and one reason for it was black pepper. They wanted to get it by bypassing the trade route controlled by the Arabs and Italians.

- (A) Spain's explorers went to sea, and one reason for that was they wanted to bypass the trade route controlled by the Arabs and Italians for black pepper.
- (B) Spain's explorers went to sea, one reason for this was to find black pepper, bypassing the trade route controlled by the Arabs and Italians.
- (C) For black pepper, Spain's explorers went to sea, one reason for which was to bypass the trade route controlled by the Arabs and Italians.
- (D) Because the Arabs and Italians controlled the trade route of black pepper, Spain's explorers went to sea as a bypass.
- (E) One reason that Spain's explorers went to sea was to get black pepper by bypassing the trade route controlled by the Arabs and Italians.

35. Which is the best sentence to put after sentence 11 ?

- (A) In the United States you can even grow chili peppers in northern states like Minnesota.
- (B) Suddenly, there was a hardy alternative to black pepper.
- (C) In the end, the Europeans never found a passage to the spice countries through the American continents.
- (D) Black pepper is still popular today, and much less expensive than it was a few centuries ago.
- (E) The majority of peppers are grown and consumed in Mexico and Latin America.

STOP

If you finish before time is called, you may check your work on this section only.
Do not turn to any other section in the test.

SECTION 7

Time — 25 minutes

18 Questions

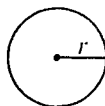
Turn to Section 7 (page 6) of your answer sheet to answer the questions in this section.

Directions: This section contains two types of questions. You have 25 minutes to complete both types. For questions 1-8, solve each problem and decide which is the best of the choices given. Fill in the corresponding circle on the answer sheet. You may use any available space for scratchwork.

Notes

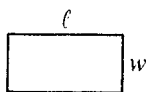
- The use of a calculator is permitted.
- All numbers used are real numbers.
- Figures that accompany problems in this test are intended to provide information useful in solving the problems. They are drawn as accurately as possible EXCEPT when it is stated in a specific problem that the figure is not drawn to scale. All figures lie in a plane unless otherwise indicated.
- Unless otherwise specified, the domain of any function f is assumed to be the set of all real numbers x for which $f(x)$ is a real number.

Reference Information

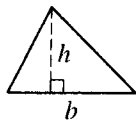


$$A = \pi r^2$$

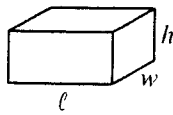
$$C = 2\pi r$$



$$A = \ell w$$



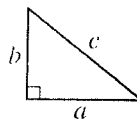
$$A = \frac{1}{2}bh$$



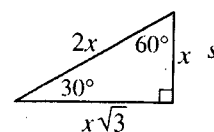
$$V = \ell wh$$



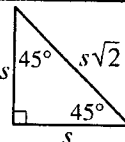
$$V = \pi r^2 h$$



$$c^2 = a^2 + b^2$$



Special Right Triangles



The number of degrees of arc in a circle is 360.

The sum of the measures in degrees of the angles of a triangle is 180.

1. For all positive integers x and y , let $\boxed{x|y}$ be defined

as $\boxed{x|y} = x + 2y$. What is the value of $\boxed{4|3}$?

- (A) 7
(B) 8
(C) 9
(D) 10
(E) 11

$$y = kx$$

2. In the equation above, k is a constant. When $y = 12$, then $x = 5$. When $y = 60$, what does x equal?

- (A) 10
(B) 17
(C) 25
(D) 53
(E) 144

GO ON TO THE NEXT PAGE

3. Which of the following numbers is between 0.499 and 0.500?

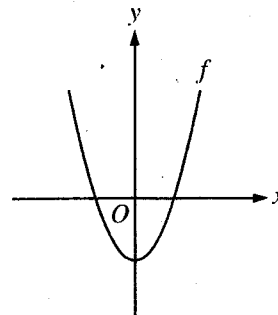
- I. 0.4955
- II. 0.4994
- III. 0.5001

- (A) I only
- (B) II only
- (C) III only
- (D) I and II
- (E) II and III

2, 6, 12, ...

4. The first term of the sequence above equals 1×2 , the second term equals 2×3 , and the third term equals 3×4 . In general the n th term of the sequence equals $n(n + 1)$. What is the 20th term minus the 19th term?

- (A) 2
- (B) 38
- (C) 40
- (D) 42
- (E) 400

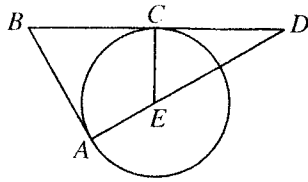


5. The figure above shows the graph of the function f .

If $g(x) = -f(x)$ for all values of x , which of the following is a true statement describing the graph of g in comparison with the graph of f ?

- (A) It is wider than the graph of f and opens upward.
- (B) It is wider than the graph of f and opens downward.
- (C) It is narrower than the graph of f and opens upward.
- (D) It is narrower than the graph of f and opens downward.
- (E) It has the same shape as the graph of f but opens downward.

GO ON TO THE NEXT PAGE



6. In the figure above, line segments \overline{BD} and \overline{AB} are tangent to the circle at points C and A , respectively. If the circle is centered at E , what angle must have the same measure as $\angle ABD$?

- (A) $\angle BAD$
 (B) $\angle BCE$
 (C) $\angle CDE$
 (D) $\angle CEA$
 (E) $\angle CED$

YEAR	STUDENT POPULATION
1990	1,800
1992	2,050
1994	2,275
1996	2,525
1998	2,750

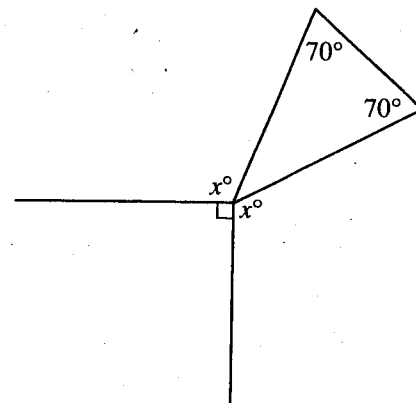
7. The chart above shows the student population at Johnston High School from 1990 through 1998. Beginning in 1990, the student population increased by a constant amount every 4 years. What was the student population in the year 2002?
- (A) 3,000
 (B) 3,225
 (C) 3,250
 (D) 3,500
 (E) 3,700

8. In $\triangle PQR$, $PQ = 4$, $QR = 3$, $PR = 6$, and the measure of angle PQR is x° . Which of the following must be true about x ?

- (A) $45 \leq x < 60$
 (B) $x = 60$
 (C) $60 < x < 90$
 (D) $x = 90$
 (E) $x > 90$

11. Of all the students in a high school, on a certain day $\frac{2}{3}$ rode the bus to school, $\frac{1}{6}$ rode in a car, and the remaining students walked. What fraction of the school's students walked to school on that day?

12. What is one possible value of x for which $2x < 2 < 3x$?

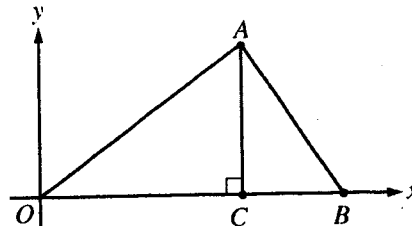


13. What is the value of x in the figure above?

14. In an assortment of cereals, 23 types contain oats and 25 types contain rice. Some of these cereals contain both oats and rice. If 16 cereals in this assortment contain oats but not rice, how many cereals contain rice but not oats?

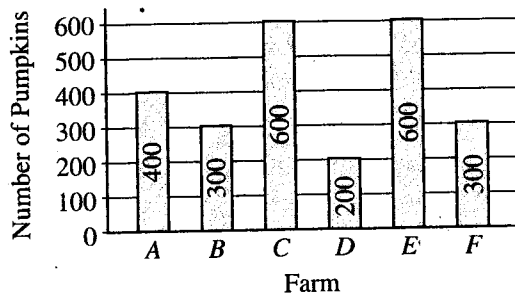
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15. If $a > 1$ in the equations $\frac{a^x}{a^y} = a^{-6}$ and $a^x \cdot a^y = a^{12}$, what is the value of y ?



17. In the xy -plane above, $\triangle OAB$ has area 9, the length of \overline{OC} is 4, and the coordinates of point B are $(6, 0)$. What is the slope of segment \overline{OA} ?

NUMBER OF PUMPKINS HARVESTED
AT SIX FARMS



16. Based on the bar chart above, what is the total number of pumpkins harvested at those farms for which the number of pumpkins harvested was greater than the median number of pumpkins harvested at the 6 farms?

18. In the integer 3,589 the digits are all different and increase from left to right. How many integers between 4,000 and 5,000 have digits that are all different and that increase from left to right?

STOP

If you finish before time is called, you may check your work on this section only.
Do not turn to any other section in the test.

**SECTION 8**

Time — 20 minutes

19 Questions

Turn to Section 8 (page 7) of your answer sheet to answer the questions in this section.**Directions:** For each question in this section, select the best answer from among the choices given and fill in the corresponding circle on the answer sheet.

Each sentence below has one or two blanks, each blank indicating that something has been omitted. Beneath the sentence are five words or sets of words labeled A through E. Choose the word or set of words that, when inserted in the sentence, best fits the meaning of the sentence as a whole.

Example:

Hoping to ----- the dispute, negotiators proposed a compromise that they felt would be ----- to both labor and management.

- (A) enforce . . useful
(B) end . . divisive
(C) overcome . . unattractive
(D) extend . . satisfactory
(E) resolve . . acceptable

(A) (B) (C) (D) ●

- The outbreak of disease could not be labeled pandemic, since despite its rapid ----- it remained confined to one small region.
(A) spread (B) concentration (C) fading
(D) symptoms (E) improvement
- The author's theory about modern design had an enormous impact when first published, but as ----- as it was then, it is now clearly -----.
(A) scholarly . . erudite
(B) lackluster . . impressive
(C) influential . . outdated
(D) primitive . . antiquarian
(E) prestigious . . masterful
- Texas is known for its wild orchids, whose ----- is evident in their ----- colors: 52 species have been catalogued, ranging from pure white to bright red.
(A) novelty . . traditional
(B) diversity . . myriad
(C) stature . . uniform
(D) starkness . . vibrant
(E) toxicity . . varying
- In 1974 the committee overseeing the Pulitzer Prize in Literature was ----- so much ----- that it bestowed no award at all that year.
(A) plagued by . . concordance
(B) afforded with . . esteem
(C) exempt from . . debate
(D) racked with . . dissension
(E) emboldened by . . scrutiny
- Pablo Picasso was ----- youth: his extraordinary artistic talent was obvious at a very early age.
(A) an articulate (B) an immature
(C) a disturbed (D) a precocious
(E) a callow
- Jared has the habits of -----: he lives simply and donates most of his income to local charities.
(A) a skeptic (B) a pundit (C) a dilettante
(D) an insurgent (E) an ascetic



The passage below is followed by questions based on its content. Answer the questions on the basis of what is stated or implied in the passage and in any introductory material that may be provided.

Questions 7-19 are based on the following passage.

This passage about the survival of cheetahs is from a book published in 1995.

Line
5 The cheetah may be a gorgeous, sleek sports car among mammals, able to sprint at speeds approaching seventy miles an hour, yet it has not been able to run away from its many miseries. Once the cat ranged throughout the African continent, the Near East, and into southern India; now it is extinct almost everywhere but in scattered patches of sub-Saharan Africa. Farmers in Namibia shoot cheetahs as vermin. On reserves, where cheetahs are often forced into unnatural proximity with other predators, they are at the bottom of the meat eaters' grim hierarchy; lions will go out
10 of their way to destroy cheetah cubs, while hyenas, leopards, and even vultures can easily chase away a cheetah from its hard-caught prey. To make the magnificent cat's story more poignant still, many scientists have concluded that the species is severely inbred, the result of a disastrous population crash thousands of years ago from which the poor animals have hardly had a chance to recover.

20 Studies of cheetah chromosomes show a surprising lack of genetic diversity from one individual to the next, and as a result the cheetah is widely portrayed as sitting under an evolutionary guillotine, the population so monochromatic that, in theory, a powerful epidemic could destroy many if not all of the approximately fifteen thousand cheetahs that currently exist in the wilderness.

25 Some zoos have complained that cheetahs are infertile, and they attribute the problem to the cheetah's bleak genetic makeup, calling into question the long-term prognosis even for cats living in the pampered confines of a park. Now some maverick biologists argue that this widely held notion of the inbred cheetah may be wrong, an artifact of test-tube manipulations with little relevance to the cat's workaday world. They insist that, far from displaying the negative effects of lethargy and feebleness seen in other animals known to be genetically homogeneous, cheetahs are in
35 many ways quite robust.

The significance of the debate extends far beyond the cat itself. Scientists are seeking to calculate the odds that any number of endangered or threatened species are likely

40 to survive into the twenty-first century, and among the many questions they ask is how much genetic diversity a creature requires if it is to rebound from the brink of extinction. Inbreeding is thought to be harmful to a species for two reasons: first, it allows hazardous recessive traits to come to the fore, resulting in physical problems and, in some cases, infertility; and second, it leads to a genetically uniform population without the diversity to resist epidemics and environmental changes.

45 But the scientists who resist the inbred cheetah dogma point out that many zoo cats bear healthy cubs, are perfectly fertile and vigorous, and have great variation in their immune systems. While the cheetah may look genetically tenuous when its DNA is appraised, by such real-life measurements as litter size, cub health, and immune response, the cheetah is perfectly fit for the millennium. The work of these scientists calls into question the validity of a strictly molecular approach to the sometimes murky science of species preservation, and it strongly suggests that scientists do not yet understand why certain genetic patterns detected in laboratory tests translate into the genuine strengths and weaknesses of a wild animal. The work also indicates that
50 zoos having trouble propagating cheetahs in captivity perhaps should not blame the animal's DNA, but rather their own ineptitude at the science of animal breeding.

55 In the final analysis, the cheetah's long-term future very likely rests not on genetic research, but on old-fashioned remedies like preserving its remaining habitat and enlisting the help of those who live alongside it. In Namibia, where the cheetah does not have to compete with many other carnivores, as it does elsewhere in Africa, the feline fares reasonably well, and its biggest problem is ranchers who shoot it in the belief that the cat threatens their livestock. Biologists in Namibia are seeking to convince the cattle owners that cheetahs in fact kill very few livestock animals, and to establish a compensatory program should
60 a calf occasionally be lost. With its sizeable free-ranging population now confined to Namibia, the cheetah is being pitched as a uniquely Namibian cat and thus a source of national pride. More than an ideal genetic profile, the cheetah needs a bit of panting room and all the public relations its noble bearing can buy.
80



7. The author refers to a "grim hierarchy" (line 10) in order to
- (A) suggest the nature of the intense competition among carnivorous animals
 - (B) emphasize the brutality of predators in the wild as opposed to those on reserves
 - (C) explain the difficulty cheetahs have catching prey on animal reserves
 - (D) highlight the speed and power of cheetahs contrasted to that of other carnivorous animals
 - (E) exemplify the result of severe inbreeding among cheetahs over the past several thousand years
8. In lines 8-13 ("On . . . prey"), the author suggests that the reserves established to preserve wildlife are
- (A) losing public support because they are not adequately safeguarding the cheetah population
 - (B) disdained by scientists who prefer habitats where species can be carefully bred and shielded from predators
 - (C) facing imminent danger from ranchers who aggressively oppose protecting wild animals that destroy their livestock
 - (D) undermining their mission by grouping animals together in conditions that are unlike those found in the wild
 - (E) manipulating the environment to favor animals at the bottom of the meat eaters' hierarchy
9. In the opening paragraph, the cheetah is portrayed primarily as a
- (A) poignant example of how animals live and die in the wild
 - (B) gentle creature that has been wrongly stereotyped as a fierce predator
 - (C) cat that is both revered and despised in its African homeland
 - (D) species whose future is grim despite the optimism of many scientists
 - (E) mammal whose beauty and swiftness cannot compensate for its weaknesses
10. In line 16, "crash" most nearly means
- (A) accident
 - (B) intensity
 - (C) decline
 - (D) noise
 - (E) extinction
11. The intended effect of the portrayal of the cheetah in lines 18-24 is to
- (A) suggest an inescapable fate
 - (B) persuade scientists to abandon genetic research
 - (C) illustrate the uniqueness of a trait
 - (D) convey a creature's remarkable resilience
 - (E) idealize the true nature of a beast
12. The "maverick biologists" (line 29) would most likely believe that the reason some zoos have found their cheetahs to be infertile is due to
- (A) the cheetahs' "bleak genetic makeup" (lines 26-27)
 - (B) the "pampered confines" (line 28) of the parks that many cheetahs inhabit
 - (C) a development of "hazardous recessive traits" (line 43) among surviving cheetahs
 - (D) the absence of "a strictly molecular approach" (lines 55-56) to species preservation
 - (E) an "ineptitude at the science of animal breeding" (line 63)
13. In lines 28-35, what does the critique of a widely held notion about cheetahs most directly suggest about common scientific practices?
- (A) Preconceived ideas are rarely put aside even though they may compromise scientific objectivity.
 - (B) Theories that may be supported in a controlled laboratory setting do not always reflect the reality of the outside world.
 - (C) Conventional scientific approaches overemphasize appearance and behavior in assessing a species' chances for survival.
 - (D) Scientists assume that the responses of animals in a study are predictive of their behavior in the wild.
 - (E) The necessity for quick results discourages the use of exciting but unproven approaches.



14. The aspect of the "debate" (line 36) that the author is most concerned with is
- (A) the idealistic belief that something can still be done to save endangered species from extinction
 - (B) the increasingly apparent differences in genetic diversity between cheetahs and other mammals
 - (C) the acceptance of a species' genetic profile as an accurate indicator of its chances for survival
 - (D) that scientists who argue against the inbreeding theory offer no valid alternative explanations for the cheetahs' problems
 - (E) that manipulating a species' genetic makeup will yield unpredictable results and is potentially dangerous
15. The "real-life measurements" (lines 52-53) primarily serve to
- (A) support an approach popularized by zoologists
 - (B) confirm the results of test-tube experiments
 - (C) substantiate the beliefs of maverick biologists
 - (D) question the motivations of genetic scientists
 - (E) discourage the hopes of animal preservationists
16. In lines 54-63, the author's observation about propagating cheetahs in captivity is best described as
- (A) a stereotypical response
 - (B) a candid assessment
 - (C) a categorical denial
 - (D) an unsettling anecdote
 - (E) an emotional plea
17. In lines 54-63, the author's discussion of the "science of species preservation" primarily suggests that
- (A) a focus on trivial details has sidetracked scientists from their chief aim
 - (B) a sterile laboratory setting is an unlikely place to observe wild animals
 - (C) genetic research is the key to enhancing a species' ability to reproduce
 - (D) scientists would be unwise to tamper with natural patterns of evolution
 - (E) much remains to be learned about what factors determine a species' survival
18. Which hypothetical approach is most similar to the author's proposal for the cheetahs?
- (A) Moving rare tropical birds from their native habitats to a controlled and protective zoo environment
 - (B) Eliminating stiff penalties for hunters in Africa who sell ivory taken from the tusks of endangered elephants
 - (C) Breeding genetically enhanced sea turtles to augment the species' dwindling numbers
 - (D) Funding scientific study of the magnificent but threatened beluga whale
 - (E) Instilling in people a sense of duty to preserve the endangered wolf as a symbol of North America's wilderness
19. In line 80, "bearing" most nearly means
- (A) relationship or interconnection
 - (B) the power of producing offspring
 - (C) something that supports weight
 - (D) demeanor or presence
 - (E) awareness of a situation

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STOP

**If you finish before time is called, you may check your work on this section only.
Do not turn to any other section in the test.**



SECTION 9

Time — 20 minutes

16 Questions

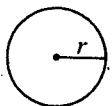
Turn to Section 9 (page 7) of your answer sheet to answer the questions in this section.

Directions: For this section, solve each problem and decide which is the best of the choices given. Fill in the corresponding circle on the answer sheet. You may use any available space for scratchwork.

Notes

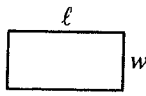
- The use of a calculator is permitted.
- All numbers used are real numbers.
- Figures that accompany problems in this test are intended to provide information useful in solving the problems. They are drawn as accurately as possible EXCEPT when it is stated in a specific problem that the figure is not drawn to scale. All figures lie in a plane unless otherwise indicated.
- Unless otherwise specified, the domain of any function f is assumed to be the set of all real numbers x for which $f(x)$ is a real number.

Reference Information

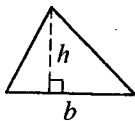


$$A = \pi r^2$$

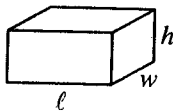
$$C = 2\pi r$$



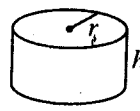
$$A = \ell w$$



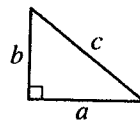
$$A = \frac{1}{2}bh$$



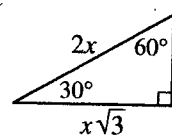
$$V = \ell wh$$



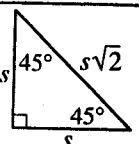
$$V = \pi r^2 h$$



$$c^2 = a^2 + b^2$$



Special Right Triangles

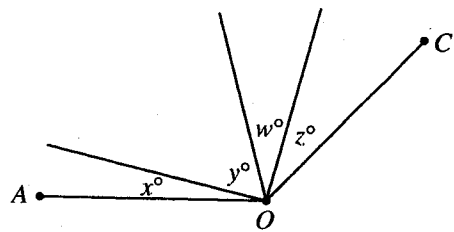


The number of degrees of arc in a circle is 360.

The sum of the measures in degrees of the angles of a triangle is 180.

1. One hundred centimeters are equal to 1 meter, and 1,000 meters are equal to 1 kilometer. How many centimeters equal 1 kilometer?

- (A) 1,000
(B) 10,000
(C) 11,000
(D) 11,100
(E) 100,000



Note: Figure not drawn to scale.

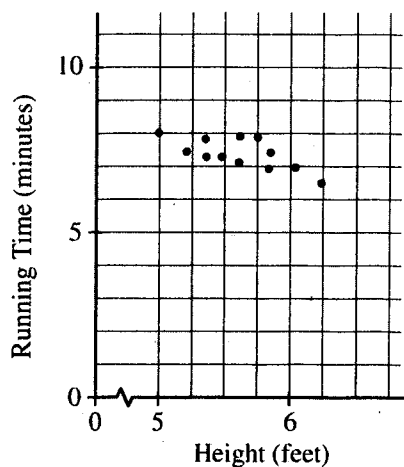
2. In the figure above, the measure of $\angle AOC$ is 144° . What is the average (arithmetic mean) of x , y , w , and z ?

- (A) 24
(B) 32
(C) 36
(D) 44
(E) 48

GO ON TO THE NEXT PAGE

3. In the xy -plane, $y = 2x + 3$ and $y = mx + b$ are parallel lines. What is the value of m ?

- (A) $-\frac{1}{2}$
- (B) $\frac{1}{3}$
- (C) $\frac{1}{2}$
- (D) 2
- (E) 3

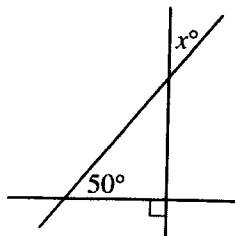


5. Twelve people were asked to run a distance of 1 mile. The scatterplot above shows the height and running time for each of them. Which of the following is true about the line of best fit?

- (A) Its slope is positive.
- (B) Its slope is negative.
- (C) It goes through the point $(0, 0)$.
- (D) It goes through the point $(0, m)$, where $m < 0$.
- (E) It goes through the point $(p, 0)$, where $p < 0$.

4. If $3x + 4 = 5$, what is the value of $6x + 7$?

- (A) 8
- (B) 9
- (C) 10
- (D) 11
- (E) 13



6. In the figure above, three lines intersect as shown. What is the value of x ?

(A) 40
(B) 45
(C) 50
(D) 55
(E) 60

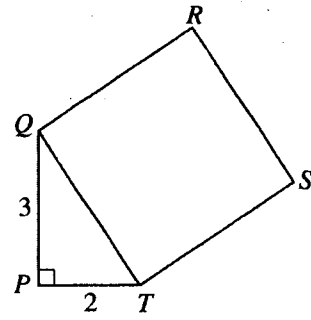
7. There are x books on a shelf. If one book is to be selected at random, the probability that a paperback will be selected is $\frac{3}{4}$. In terms of x , how many of the books are paperbacks?

(A) $\frac{x}{4}$
(B) $\frac{3x}{4}$
(C) $\frac{4x}{3}$
(D) $\frac{7x}{4}$
(E) $4x$

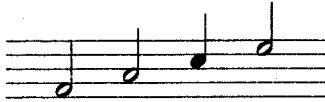
8. In the xy -coordinate plane, the distance from point P to point $(1, 2)$ is 5. If the y -coordinate of P is 2, which of the following could be the x -coordinate of P ?

(A) 4
(B) 5
(C) 6
(D) 7
(E) 8

9. If $x > 0$ and 10 percent of x is equal to 30 percent of y , then 20 percent of x equals what percent of y ?
- (A) 15%
 - (B) 40%
 - (C) 50%
 - (D) 60%
 - (E) It cannot be determined without knowing the exact values of x and y .



11. In the figure above, what is the area of square $QRST$?
- (A) 11
 - (B) 12
 - (C) 13
 - (D) 20
 - (E) 25



10. A student practices the four musical notes above, starting with the note furthest left and continuing in order from left to right. If the student plays these notes over and over according to this pattern and stops immediately after playing the shaded note, which of the following could be the total number of notes played?
- (A) 51
 - (B) 53
 - (C) 56
 - (D) 58
 - (E) 61



12. Barb's motor scooter has a 2-gallon gas tank and can travel m miles on 1 gallon of gas. If gas costs \$1.25 per gallon and Barb spends d dollars to fill the tank, which of the following represents the amount of gas, in gallons, that was in the tank before she filled it?

(A) $\frac{2}{1.25}$

(B) $\frac{d}{1.25} - 2$

(C) $2 - \frac{d}{1.25}$

(D) $2 - \frac{md}{1.25}$

(E) $2 - \frac{m}{1.25d}$

13. If $x^2 + kx + 15 = (x + t)(x + 5)$ for all values of x and if k and t are constants, what is the value of k ?

- (A) 8
(B) 9
(C) 10
(D) 12
(E) 15

14. The first of three numbers is 3 times the second number. The third number is 30 more than the second number. If the third number is represented by t and the sum of the first and second numbers is 180, which of the following equations could be used to find the value of t ?

(A) $3t + t = 180$

(B) $3t + (t - 30) = 180$

(C) $3(t - 30) + t = 180$

(D) $3(t - 30) + (t - 30) = 180$

(E) $3(t - 30) + (t - 30) + t = 180$

15. In $\triangle PQR$, the length of side \overline{QR} is 12 and the length of side \overline{PR} is 20. What is the greatest possible integer length of side \overline{PQ} ?

- (A) 9
- (B) 16
- (C) 25
- (D) 27
- (E) 31

16. On the number line, the distance between the point whose coordinate is a and the point whose coordinate is b is greater than 100. Which of the following must be true?

- I. $a - b > 100$
- II. $|a - b| > 100$
- III. $|a| \cdot |b| > 100$

- (A) II only
- (B) III only
- (C) I and II only
- (D) II and III only
- (E) I, II, and III

STOP

If you finish before time is called, you may check your work on this section only.
Do not turn to any other section in the test.



SECTION 10

Time — 10 minutes

14 Questions

Turn to Section 10 (page 7) of your answer sheet to answer the questions in this section.

Directions: For each question in this section, select the best answer from among the choices given and fill in the corresponding circle on the answer sheet.

The following sentences test correctness and effectiveness of expression. Part of each sentence or the entire sentence is underlined; beneath each sentence are five ways of phrasing the underlined material. Choice A repeats the original phrasing; the other four choices are different. If you think the original phrasing produces a better sentence than any of the alternatives, select choice A; if not, select one of the other choices.

In making your selection, follow the requirements of standard written English; that is, pay attention to grammar, choice of words, sentence construction, and punctuation. Your selection should result in the most effective sentence—clear and precise, without awkwardness or ambiguity.

EXAMPLE:

Laura Ingalls Wilder published her first book and she was sixty-five years old then.

- (A) and she was sixty-five years old then
- (B) when she was sixty-five
- (C) at age sixty-five years old
- (D) upon the reaching of sixty-five years
- (E) at the time when she was sixty-five

(A) ● (C) (D) (E)

1. Known by millions for both his recordings and his roles in Hollywood movies, and Frank Sinatra was dubbed one of the most famous “crooners” in show business.

- (A) movies, and Frank Sinatra
- (B) movies, Frank Sinatra
- (C) movies; therefore, Frank Sinatra
- (D) movies; so it was Frank Sinatra who
- (E) movies, Frank Sinatra who

2. Our modern solar calendar, established in 1582, is based on the Julian calendar, Julius Caesar introduced it in 46 B.C.

- (A) calendar, Julius Caesar introduced it
- (B) calendar, which is what was introduced by Julius Caesar
- (C) calendar; then Julius Caesar introduced it
- (D) calendar, with an introduction by Julius Caesar
- (E) calendar, introduced by Julius Caesar

3. While describing his first attempt to learn surfing, Jamal would be pleased by the interest his classmates were showing.

- (A) While describing his first attempt to learn surfing, Jamal would be pleased
- (B) As he was describing his first attempt to learn surfing, Jamal was pleased
- (C) Jamal, describing his first attempt to learn surfing, he was pleased
- (D) When he described his first attempt to learn surfing, Jamal, pleased
- (E) At the same time when he described his first attempt to learn surfing, Jamal was pleased

4. Josephine Baker (1906-1975), one of the most versatile performers of the twentieth century, and who acquired fame as a dancer, singer, Broadway actress, and movie star.

- (A) and who acquired
- (B) she has acquired
- (C) and she has acquired
- (D) and who is acquiring
- (E) acquired



5. In a nearby resort community fewer accidents have been reported and the number of speeding tickets to be issued have decreased since speed bumps were installed.
- (A) to be issued have decreased
(B) issued have been on the decrease
(C) issued has decreased
(D) that were issued have now decreased
(E) issued decreasing
6. Having millions of gallons of freshwater underground, Florida environmentalists work to educate the public on the dangers of ground pollution.
- (A) Having millions of gallons of freshwater
(B) Because millions of gallons of freshwater are
(C) Because of freshwater in the millions of gallons
(D) By considering that there are millions of gallons of freshwater
(E) Awareness of the millions of gallons of freshwater
7. Because the meteorite Ahnighito, the centerpiece of the Hall of Meteorites, weigh 34 tons, supports for it go through the floor and foundation down to the bedrock beneath the museum.
- (A) weigh 34 tons, supports for it
(B) weighs 34 tons, its supports
(C) weighs 34 tons, and it has supports that
(D) weighs 34 tons, supports are there for it, and they
(E) weigh 34 tons, their supports
8. Watermelons have been cultivated for more than 4,000 years, and whereby thumping them to test for ripeness has an equally long history.
- (A) and whereby thumping them
(B) whereby thumping them
(C) because thumping them
(D) thumping them as a way
(E) and thumping them
9. In the eighteenth century, the English emphasis on the study of Greek and Latin allowed it to produce some fine poetry written in classical verse forms.
- (A) the English emphasis on the study of Greek and Latin allowed it
(B) by emphasizing the study of Greek and Latin, this allowed England
(C) English emphasis on the study of Greek and Latin allowed them
(D) an emphasis in England on the study of Greek and Latin allowed them
(E) an emphasis on the study of Greek and Latin allowed the English
10. As a child growing up on a farm, my sister and I visited many county fairs, where my parents would exhibit their prize livestock.
- (A) As a child growing up on a farm
(B) A child who grew up on a farm
(C) Farm children and growing up
(D) Growing up on a farm
(E) Since growing up on a farm
11. Bertha Lamme received her engineering degree in 1893, which she then specialized professionally in the design of motors and generators.
- (A) 1893, which she then specialized professionally
(B) 1893, specializing as her profession
(C) 1893 and, as a professional, specialized
(D) 1893, then, for a profession, specializes
(E) 1893, she has specialized as a professional
12. Even minor usage and spelling errors make the reading task harder and can cause readers to suspect that the content of the document is also flawed.
- (A) make the reading task harder and can cause readers to suspect
(B) makes the reading task harder and causes readers to suspect
(C) make reading hard and makes readers suspicious
(D) will make the task of reading hard, it thus can cause readers to suspect
(E) will have made the reading hard, which means that readers suspect



13. The name “transferware” comes from a nineteenth-century technique for which a pattern is engraved onto a copper roll, printed on tissue paper, and transferred onto earthenware dishes.
- (A) comes from a nineteenth-century technique for which
 - (B) comes from a nineteenth-century technique according to which
 - (C) comes from a nineteenth-century technique whereby
 - (D) is a nineteenth-century technique wherein
 - (E) means it is a nineteenth-century technique by which
14. Prized for their brilliance and durability, people will spend thousands of dollars on high-quality diamonds.
- (A) Prized for their brilliance and durability, people will spend thousands of dollars on high-quality diamonds.
 - (B) Prized for their brilliance and durability, thousands of dollars are spent by people on high-quality diamonds.
 - (C) Prizing them for their brilliance as well as their durability, thousands of dollars can be spent by people on high-quality diamonds.
 - (D) Prizing the brilliance and durability of high-quality diamonds, people will spend thousands of dollars for them.
 - (E) Prizing high-quality diamonds for their brilliance and durability are what makes people spend thousands of dollars for them.

STOP

If you finish before time is called, you may check your work on this section only.
Do not turn to any other section in the test.

Correct Answers and Difficulty Levels Form Codes AECB, BWCB, DFCB

Critical Reading

Section 3			Section 5			Section 8		
COR. DIFF. ANS. LEV.	COR. DIFF. ANS. LEV.	COR. DIFF. ANS. LEV.	COR. DIFF. ANS. LEV.	COR. DIFF. ANS. LEV.	COR. DIFF. ANS. LEV.	COR. DIFF. ANS. LEV.	COR. DIFF. ANS. LEV.	COR. DIFF. ANS. LEV.
1. E 1	13. D 3	1. C 1	13. E 1	1. A 1	11. A 2			
2. E 3	14. E 3	2. A 2	14. A 3	2. C 1	12. E 4			
3. B 3	15. D 3	3. D 1	15. E 2	3. B 3	13. B 3			
4. E 3	16. A 3	4. C 3	16. E 3	4. D 4	14. C 5			
5. D 4	17. D 3	5. B 5	17. C 3	5. D 5	15. C 4			
6. D 5	18. B 3	6. E 3	18. B 3	6. E 5	16. B 4			
7. E 5	19. A 1	7. A 2	19. C 3	7. A 3	17. E 4			
8. B 5	20. C 3	8. C 3	20. C 4	8. D 3	18. E 4			
9. D 3	21. C 2	9. B 5	21. D 5	9. E 3	19. D 3			
10. A 1	22. B 3	10. A 1	22. E 5	10. C 1				
11. E 1	23. E 3	11. B 3	23. E 5					
12. B 2	24. C 2	12. C 3	24. A 5					

Number correct	Number correct	Number correct
Number incorrect	Number incorrect	Number incorrect

Math

Section 4			Section 7			Section 9		
COR. DIFF. ANS. LEV.	COR. DIFF. ANS. LEV.	COR. DIFF. ANS. LEV.	COR. DIFF. ANS. LEV.	COR. DIFF. ANS. LEV.	COR. DIFF. ANS. LEV.	COR. DIFF. ANS. LEV.	COR. DIFF. ANS. LEV.	COR. DIFF. ANS. LEV.
1. D 1	11. A 3	Multiple-Choice Questions		Student-Produced Response Questions		1. E 1	9. D 3	
2. A 1	12. B 4	1. D 1	9. 15	1. 1	2. C 1	2. C 1	10. A 3	
3. E 1	13. D 3	2. C 2	10. 4	2. 2	3. D 2	3. D 2	11. C 3	
4. A 1	14. D 3	3. B 2	11. 1/6, .166 or .167	3. 2	4. B 2	4. B 2	12. C 4	
5. D 2	15. C 3	4. C 2	12. 2/3 < x < 1 or .666 < x < 1	4. 2	5. B 2	5. B 2	13. A 4	
6. D 2	16. C 4	5. E 3	13. 115	5. 3	6. A 1	6. A 1	14. D 4	
7. B 3	17. B 4	6. E 3	14. 18	6. 3	7. B 3	7. B 3	15. E 5	
8. B 3	18. E 4	7. B 3	15. 9	7. 4	8. C 3	8. C 3	16. A 5	
9. C 3	19. B 4	8. E 5	16. 1600	8. 3				
10. A 3	20. D 4		17. 3/4 or .75	9. 4				
			18. 10	10. 5				

Number correct	Number correct	Number correct (9-18)	Number correct
Number incorrect	Number incorrect	Number incorrect	Number incorrect

Writing

Section 6				Section 10			
COR. DIFF. ANS. LEV.	COR. DIFF. ANS. LEV.	COR. DIFF. ANS. LEV.	COR. DIFF. ANS. LEV.	COR. DIFF. ANS. LEV.	COR. DIFF. ANS. LEV.	COR. DIFF. ANS. LEV.	COR. DIFF. ANS. LEV.
1. B 1	10. C 4	19. C 3	28. A 5	1. B 1	6. B 3	11. C 4	
2. D 1	11. C 3	20. E 2	29. E 5	2. E 1	7. B 3	12. A 4	
3. A 1	12. A 1	21. D 3	30. C 3	3. B 1	8. E 3	13. C 5	
4. D 2	13. E 1	22. E 3	31. A 2	4. E 1	9. E 4	14. D 5	
5. A 1	14. C 2	23. C 3	32. A 4	5. C 2	10. D 3		
6. D 2	15. D 2	24. B 3	33. A 3				
7. C 3	16. A 3	25. D 3	34. E 3				
8. E 3	17. D 2	26. A 4	35. B 4				
9. D 3	18. A 2	27. B 5					

Number correct	Number correct
Number incorrect	Number incorrect

NOTE: Difficulty levels are estimates of question difficulty for a reference group of college-bound seniors. Difficulty levels range from 1 (easiest) to 5 (hardest).