# Practice with this full-length Preliminary SAT/National Merit Scholarship Qualifying Test

Timing

The PSAT/NMSQT® has five sections. You will have 25 minutes each for Sections 1–4 and 30 minutes for Section 5.

Scoring

For each correct answer, you receive one point. For questions you omit, you receive no points. For a wrong answer to a multiple-choice question, you lose a quarter (¼) of a point. For a wrong answer to a math question that is not multiple choice, you do not lose any points.

Make time to take the Practice Test. It is the best way to get ready for the PSAT/NMSQT.

Guessing

If you can eliminate one or more choices as wrong, you increase your chances of choosing the correct answer and earning one point. If you cannot eliminate any choices, move on. You can return to the question later if there is time.

Marking Answers You must mark all of your answers on your answer sheet to receive credit. Make sure each mark is dark and completely fills the circle. If you erase, do so completely. You may write in the test book, but you will not receive credit for anything you write there.

Checking Answers You may check your work on a particular section if you finish it before time is called, but you may **not** turn to any other section.

# DO NOT OPEN THE TEST BOOK UNTIL YOU ARE TOLD TO DO SO!

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Preliminary SAT/National Merit Scholarship Qualifying Test cosponsored by

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NATIONAL MERIT
SCHOLARSHIP CORPORATION

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#### TAKE THE PRACTICE TEST

Take the Practice Test on the following pages to become familiar with the kinds of questions (critical reading, mathematics, and writing skills) on the PSAT/NMSQT. The test you take in October will be similar, containing 5 sections: critical reading questions in 2 sections, mathematics questions in 2 sections, and writing skills questions in 1 section.

Set aside time to take the entire test; you'll need about 2 hours and 10 minutes. Use the practice answer sheet on pages 3 and 4. Have your calculator available for the math sections. After the test, check your answers to see how you scored.

#### **TEST-TAKING STRATEGIES**

Try these out when you take the Practice Test:

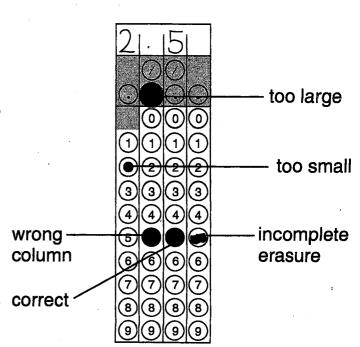
- Expect easy questions at the beginning of each set of sentence completion questions (in the critical reading sections) and math questions. Within a set, questions generally get harder as you go along. However, sets of passage-based reading questions (in the critical reading sections) and writing skills questions are not necessarily arranged by difficulty.
- Earn as many points as you can on easy questions.

  For each correct answer you receive one point, no matter how hard or easy the questions are. Beware of careless errors on questions you know how to answer.
- You don't have to answer every question. You can do well even though you omit some questions.
- Work steadily. Don't waste time on a question that is hard for you. If you can't answer it, mark it in your test book and go on. Go back to it later if there is time. Bring a watch with you to help with pacing.

- Try guessing when you can eliminate at least one answer to a multiple-choice question.
- Mark your answers in the correct row of circles on the answer sheet. Be especially careful if you skip questions.
- Write your answers to math questions 29–38 in the boxes above the circles. Then enter your answer accurately and as completely as the grid will accommodate. You MUST grid the correct answer in the circles to receive credit. If the correct answer is written above the grid, but the incorrect circles are marked, the answer is incorrect. A common mistake is marking two circles in the same column, so be sure to double-check your grids. You do not lose points for a wrong answer to a Student-Produced Response Question.

#### GET CREDIT FOR ALL YOU KNOW

- Use a No. 2 pencil.
- Follow instructions for grids.
- Mark only one answer to each question.
- Make dark marks and fill circles completely.
- Erase completely if you change a response.



# ANSWIER SHEET

Stop Start Time Questions Section Critical Reading 25 min. Mathematics 25 min. 2 Critical Reading 25 min. 3 Mathematics 25 min. 4 30 min. Writing Skills 5 (5 min. longer than 1-4)

KEEP TRACK
of your start and
stop times.

The actual test will include much more space for scratch work around each math question than is available on this Practice Test.

Make each mark a dark mark that completely fills the circle and is as dark as all your other marks. If you erase, do so completely. Incomplete erasures may be read as intended responses.

19 (A) (B) (C) (D) (E) 13 (A) (B) (C) (D) (E) 7 (A) (B) (C) (D) (E) 1 (A (B) (C) (D) (E) 20 (A (B (C) (D) (E) 14 (A (B) (C) (D) (E) 8 (A) (B) (C) (D) (E) 2 (A (B) (C) (D) (E) 21 (A) (B) (C) (D) (E) 15 (A) (B) (C) (D) (E) 9 (A (B) (C) (D) (E) 3 (A) (B) (C) (D) (E) 22 (A (B) (C) (D) (E) 16 (A) (B) (C) (D) (E) 10 A B C D E 4 (A) (B) (C) (D) (E) 23 (A) (B) (C) (D) (E) 17 A B C O E 11 A B O O E CRITICAL 5 (A) (B) (C) (D) (E) 24 (A) (B) (C) (D) (E) 18 (A) (B) (C) (D) (E) READING 12 (A) (B) (C) (D) (E) 6 (A) (B) (C) (D) (E) 25 minutes

16 (A) (B) (C) (D) (E) 11 (A (B) (C) (D) (E) 6 (A (B) (C) (D) (E) 1 (A) (B) (C) (D) (E) 17 A B O D E 12 (A) (B) (C) (D) (E) 7 (A) (B) (C) (D) (E) 2 A B O D E 18 A B © D E **13**(A)(B)(D)(B) 8 (A) (B) (C) (D) (E) 3 (A) (B) (C) (D) (E) 19 (A (B) (C) (D) (E) 9 (A) (B) (C) (D) (E) 4 A B C D E 20 (A) (B) (C) (D) (E) tem (a) (a) (b) (b) **MATHEMATICS** 10 (A) (B) (C) (D) (E) 5 A B C D E 25 minutes

43 (A) (B) (C) (D) (E) 37 (A) (B) (C) (D) (E) 31 (A) (B) (C) (D) (E) 25 (A) (B) (C) (D) (E) 44 (A) (B) (C) (D) (E) 38 (A) (B) (C) (D) (E) 32 (A) (B) (C) (D) (E) 26 A B C D E 45 A B O D E 39 (A) (B) (C) (D) (E) 33 (A) (B) (C) (D) (E) 27 (A) (B) (C) (D) (E) 46 (A) B) (C) D) (E) 40 (A) (B) (C) (D) (E) 34 A B © D E 28 (A (B) (C) (D) (E) 47 (A) (B) (C) (D) (E) 41 (A (B) (D) (B) CRITICAL 35 (A) (B) (C) (D) (E) 29 (A) (B) (C) (D) (E) 48 (A) (B) (C) (D) (E) 42 (A) (B) (C) (D) (E) READING 36 A B C D E 30 (A) (B) (C) (D) (E) 25 minutes

# Reminder: If you erase, do so completely.

MATHEMATICS 25 minutes	21 (A (B (C)	25 (A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B		
Only answers entered in the circles in each grid area will be scored.  Mark only one circle in any column. You will not receive credit for anything written in the boxes above the circles.	30 (***) (*	31	32 2000 0000 1000 1000 1000 2000 3000 4044 6056 6066 7070 8066 9000	33
34	35	3 2 0 0 0 0 0 0 0 0 0 0 0 0 0	000 000 0101 000 000 0101 000 000 000 0	2000 0000 0000 0000 0000 0000 0000 000
WRITING SKILLS 30 minutes	1 A B C D E  2 A B C D E  4 A B C D E  5 A B C D E  8 A B C D E  9 A B C D E  10 A B C D E  11 A B C D E  12 A B C D E  12 A B C D E  13 A B C D E	14 A B C D E 15 A B C D E 15 A B C D E 16 A B C D E 17 A B C D E 19 A B C D E 20 A B C D E 22 A B C D E 24 A B C D E 25 A B C D E 26 A B C D E	27 A B C D E 28 A B C D E 29 A B C D E 30 A B C D E 31 A B C D E 32 A B C D E 34 A B C D E 35 A B C D E 36 A B C D E 37 A B C D E 37 A B C D E 38 A B C D E 39 A B C D E	







1

#### **SECTION 1**

Time — 25 minutes 24 Questions (1-24)

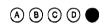
**Directions:** For each question in this section, select the best answer from among the choices given and fill in the corresponding circle on the answer sheet.

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, <u>best</u> 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



- 1. Election to Hawaii's House of Representatives in 1956 was the first milestone in Patsy Takemoto Mink's career as a -----.
  - (A) philosopher
- (B) commentator
- (C) financier

- (D) legislator
- (E) negotiator
- 2. The essay was notably -----: every paragraph was a mere restatement of a commonplace.
  - (A) murky
- (B) comprehensive
- (C) unoriginal

- (D) jumbled
- (E) groundbreaking
- 3. When Susan, the manager of the clothing store where Nathan shopped, ----- his complaints, he became so ----- that he resolved to take his business to a competing retailer.
  - (A) exaggerated . . exhilarated
  - (B) disregarded . . gratified
  - (C) heeded . . despondent
  - (D) ridiculed . . unscrupulous
  - (E) trivialized . . exasperated

- 4. There has been a recent ----- of interest in the art of painter Yayoi Kusama: once at the ----- of critical consciousness, her work is now very near the center.
  - (A) restoration..hub
  - (B) subsidence..boundary
  - (C) resurgence . . periphery
  - (D) renewal..core
  - (E) deterioration . . edge
- 5. When we act unselfishly toward others, our ----- is rewarded by the release of pleasure-inducing chemicals in the brain.
  - (A) duplicity (E
- (B) altruism
- (C) discernment
- (D) effusiveness (E) subservience
- 6. Although scientists occasionally receive reports of snowflakes the size of dinner plates falling from the sky, the accounts are always ------ because of the ----- nature of snowflakes.
  - (A) circumstantial . . complicated
  - (B) definitive . . unreliable
  - (C) uncorroborated . . ephemeral
  - (D) substantive . . intrinsic
  - (E) anecdotal . . precipitous
- 7. Jules Verne's 1897 novel An Antarctic Mystery was -----: it foresaw the disastrous long-term consequences of the massive hunting of whales.
  - (A) spurious
- (B) vitriolic
- (C) reminiscent
- (D) prescient (E) presumptuous
- **8.** Although the authoritarian regime accorded significant rights to the ----- of the opposition parties, their rankand-file members still had only minimal ----- to engage in political activity.
  - (A) commoners . . opportunity
  - (B) dissidents . . cause
  - (C) adversaries . . inclination
  - (D) elites . . latitude
  - (E) stalwarts..compensation





# PRACTICE TEST





1

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 <u>stated</u> or <u>implied</u> in the passages and in any introductory material that may be provided.

#### Questions 9-10 are based on the following passage.

I came back from Africa with ideas for a new piece of art, more primitive than any I had ever done before. "Primitive" is a word I use in a positive way to explain the completeness of a concept in art. I like to layer and pattern and embellish my art in the manner of tribal art, and then, like a blues singer, I like to repeat and repeat it again. Fragmented, understated, or minimalist art forms frustrate me. I want to finish them. In the 1960s there was a minimalist aesthetic advocating "Less is more." To me, less is even less and more is still not quite enough.

- 9. The primary purpose of the passage is to
  - (A) describe a creative philosophy
  - (B) explain the origins of a concept
  - (C) spark an artistic impulse
  - (D) provide a historical overview
  - (E) offer a technical lesson
- 10. The mention of the "blues singer" (line 6) serves primarily to
  - (A) suggest a possible audience for a type of artwork
  - (B) indicate the widespread popularity of a certain kind of vocalist
  - (C) identify a possible artistic collaboration
  - draw a parallel between a style of art and a style of music
  - (E) express admiration for a particular musical form

#### Questions 11-12 are based on the following passage.

Rain had fallen all week, especially at night, and even

though the weather forecasters had noted repeatedly that these rains were beneficial, Benny Meyuhas was beside himself. It seemed to him that the head of the studio's Production Department himself had ordered this rain, to prevent Benny from night filming Iddo and Eynam, or to force Benny, as the department head put it, "to finish up already with that thing that's eaten up our entire budget for Israeli drama." Just when Benny had lost all hope of completing these last scenes, which he had been filming secretly, the rain suddenly let up, and the Moon appeared.

- 11. The passage indicates that Benny "was beside himself" (lines 3-4) because
  - (A) his film might be the only Israeli drama produced that year
  - (B) the rain might stop soon, ruining the moody atmosphere of his night scenes
  - (C) the production executive might replace him with another director
  - (D) he was afraid that he would not be able to finish the film in the way he wished
  - (E) he was worried that he might not get paid for his work
- 12. The passage focuses primarily on
  - (A) examining the complex psychology of an artist
  - (B) depicting a filmmaker who is under pressure to complete a project
  - (C) lampooning a studio executive who is being manipulated
  - (D) condemning the way film studios exert control over directors
  - (E) illustrating how destiny favors creative geniuses





# Questions 13-24 are based on the following passages.

These passages discuss hydrogen fuel cells, which use electrodes to unite hydrogen and oxygen to produce electricity, heat, and water. Both passages are adapted from works published in 2003.

#### Passage 1

Four decades ago, the United States faced a creeping menace to national security. The Soviet Union had lobbed the first satellite into space in 1957. Then, on April 12, 1961, Russian cosmonaut Yuri Gagarin blasted off in Vostok 1 and became the first human in orbit. Line President Kennedy understood that dominating space could mean the difference between a country able to defend itself and one at the mercy of its rivals. In a May 1961 address to Congress, President Kennedy 10 unveiled Apollo—a 10-year program of federal subsidies aimed at "landing a man on the Moon and returning him safely to the Earth." Congress appropriated the funds, scientists and engineers put their noses to the launchpad, and Neil Armstrong stepped onto the Moon eight years later. 15

The country now faces a similar situation: reliance on foreign oil. Just as we responded to Soviet space superiority with a bold commitment, so now the United States must respond to the clout of foreign oil by making energy independence a national priority. Conventional wisdom indicates two ways for the United States to reduce dependence on foreign oil: increase domestic production or decrease demand. Either way, though, the country would remain hostage to overseas producers. Consider plans to drill in the Arctic National Wildlife Refuge. For all the political wrangling and backlash, that area's productivity isn't likely to offset declining output from larger United States oil fields, let alone increase the total supply from domestic sources. As for reducing demand, the levers available are small and ineffectual. Moreover, the dynamism at the heart of the United States economy depends on energy.

There's only one way to insulate the United States from the corrosive power of oil—develop an alternative energy resource that's readily available domestically. Of hydrogen, coal, natural gas, wind, water, solar, and nuclear, hydrogen is the only energy resource that can provide a wholesale substitute for foreign oil within a decade. Hydrogen stores energy more effectively than current batteries do, burns twice as efficiently in a fuel cell as gasoline does in an internal-combustion engine (more than making up for the energy required to produce it), and leaves only water behind. It's plentiful, clean, and—critically—capable of powering cars. Like manned space flight in 1961,

hydrogen power is proven but primitive, a technology ripe for acceleration and then deployment. For that, thank the Apollo program itself, which spurred the development of early fuel cells.

#### Passage 2

Outside of science fiction, the hydrogen-fueled car is probably the most radical reinvention of the automobile ever imagined. The fuel supply is inexhaustible, and the car produces no emissions except water, which, upon emerging from the tailpipe, is, in principle at least, clean enough to drink. The car can even serve as a source of electricity when parked: a hydrogen-car owner can use it to light his or her home. Sometime in the past year or so, the hydrogen-fueled car moved out of the laboratory and, if not quite onto the road, into the bright showroom of public relations.

For a number of reasons—primary among them the inefficiency of the internal-combustion engineautomobiles represent a particularly promising fuel-cell application. Fuel cells produce electrical, rather than mechanical, energy — in this way, fuel-cell cars are similar to battery-powered vehicles—and, using the same amount of energy, can propel a car nearly three times as far as an internal-combustion engine can. Yet cars represent a peculiar challenge: they require a great deal of power, are expected to travel long distances between refuelings, and are called on to last for ten years or more. Among the many obstacles to commercial production of automotive fuel cells are cost, durability, and fuel storage. There are also concerns about safety, although fuel-cell advocates maintain that the dangers of hydrogen have been greatly 75 exaggerated. In a recent paper, physicist Amory Lovins argues that hydrogen is "at least as safe as natural gas or LPG (liquefied petroleum gas) and arguably is inherently safer than gasoline."

Although it is the most plentiful element in the universe, hydrogen on Earth exists almost exclusively in combination with other substances; therefore, it must be extracted, a process that can itself require a considerable amount of energy. Hydrogen can be produced using renewable energy sources, like wind, but it can just as easily—in fact, perhaps more easily—be extracted by less environmentally benign means. A prototype for a fuel-cell truck, since abandoned, extracted hydrogen from gasoline through a process known as "reforming." This approach obviates the need for a whole new hydrogen-delivery infrastructure, but since it produces substantial amounts of carbon dioxide, it also obviates much of the reason for switching to fuel cells. Similarly, hydrogen can be produced from coal; once all the emissions of that process are taken into account, it's debatable whether fuel-cell cars yield any environmental benefit at all.



- 13. Which best describes the relationship between the two passages?
  - (A) Passage 2 fully endorses the proposal advanced in Passage 1.
  - (B) Passage 2 suggests a solution to a problem described in Passage 1.
  - (C) Passage 2 points out potential benefits and drawbacks of an idea raised in Passage 1.
  - (D) Passage 2, like Passage 1, indicates the practical challenges of implementing an idea.
  - (E) Passage 2, like Passage 1, discusses the potential cost savings of a proposal.
- 14. Lines 1-2 ("Four . . . security") depict a situation best
  - (A) chaotic
  - (B) threatening
  - (C) noble
  - (D) humorous
  - (E) rebellious
- 15. Lines 12-15 ("Congress . . . later") indicate that the response to the program introduced in President Kennedy's address was
  - (A) excited but cautious
  - (B) determined and focused
  - (C) supportive yet fearful
  - (D) doubtful and concerned
  - (E) uncertain but willing
- 16. Lines 16-32 suggest that the author of Passage 1 would most likely respond to the assessment in lines 92-95, Passage 2 ("once . . . all"), by pointing out that
  - (A) there is more environmental benefit in using hydrogen extracted from coal than in using hydrogen from other sources
  - (B) such reasoning could be used to defend drilling in the Arctic National Wildlife Refuge, even though doing so will bring little real benefit
  - (C) as a substitute for foreign oil, coal can currently be exploited more easily than hydrogen can
  - (D) energy independence is a critical need for the United States, even if the use of coal does not yield environmental benefits
- (E) attempts to increase coal production, like attempts to increase oil production, are likely to result in political wrangling

- 17. The tone of lines 33-38 ("There's ... decade") suggests that the author's attitude is
  - (A) unequivocal
  - (B) accusatory
  - (C) impartial
  - (D) defiant
  - (E) nonchalant
- 18. In line 45, "ripe" most nearly means
  - (A) mature
  - (B) ready
  - (C) fortunate
  - (D) mellow
  - (E) spoiled
- 19. In lines 63-67 ("Fuel . . . can"), the author of Passage 2 is concerned primarily with
  - (A) explaining how fuel cells generate energy
  - (B) comparing battery-powered automobiles with gasoline-powered automobiles
  - (C) describing one reason that the automobile represents a promising use of fuel cells
  - (D) indicating that fuel-cell cars can travel faster than gasoline-powered cars
  - (E) mentioning some of the design challenges of manufacturing a fuel-cell car
- 20. The sentence in lines 67-70 ("Yet . . . more") serves to
  - (A) substantiate an earlier generalization by introducing an example
  - reiterate the author's previous claim
  - (C) offer several possible solutions to a problem
  - (D) signal a transition in the author's argument
  - (E) question why a particular course of action has been undertaken
- 21. The author of Passage 1 would most likely respond to the statement in lines 79-83, Passage 2 ("Although . . . energy"), by claiming that the
  - .(A) relative efficiency of hydrogen compensates for the energy expended to extract it
  - commercial exploitation of hydrogen is unnecessary because it is so readily available
  - (C) extraction of hydrogen often has a significant negative impact on the environment
  - (D) efficient production of hydrogen must be a top priority of those advocating fuel-cell cars
  - (E) concerns raised about the safety of hydrogen are legitimate and justified





# PRACTICE TEST





1

- 22. Lines 88-91 ("This...cells") indicate that the author of Passage 2 considers "reforming" (line 88) to be
  - (A) a significant breakthrough
  - (B) promising but untested
  - (C) of doubtful value
  - (D) impossible to evaluate
  - (E) potentially dangerous
- 23. In line 94, "yield" most nearly means
  - (A) reward
  - (B) submit
  - (C) concede
  - (D) produce
  - (E) withdraw

- **24.** Compared with the author of Passage 2, the author of Passage 1 is
  - (A) less anxious about the urgency of finding an alternative energy source
  - (B) less worried about how to market hydrogen fuel-cell cars to the public
  - (C) more enthusiastic about the prospect of hydrogen serving as an alternative source of energy
  - (D) more concerned about the safety of using hydrogen as a fuel
  - (E) more dubious about the role of Apollo in the development of alternative fuel sources

# STOP

If you finish before time is called, you may check your work on this section only.

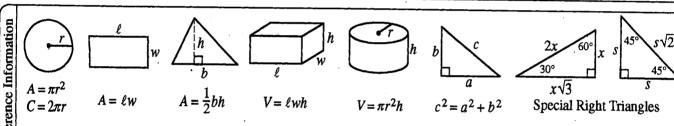
Do not turn to any other section in the test.

#### **SECTION 2**

Time — 25 minutes 20 Questions (1-20)

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 scratch work.

- 1. The use of a calculator is permitted.
- 2. All numbers used are real numbers.
- 3. 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.
- 4. 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.



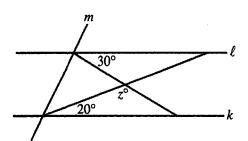
The number of degrees of arc in a circle is 360.

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

- 1. A lawn service can cut 45 lawns in 12 hours. At this rate, how many lawns can the lawn service cut in 8 hours?
  - (A) 25
  - (B) 27
  - (C) 30
  - (D) 33
  - (E) 41
- P Q R
- 2. In the figure above, point Q lies on  $\overline{PR}$ . The length of  $\overline{QR}$  is 6, and the length of  $\overline{PQ}$  is twice the length of  $\overline{QR}$ . What is the length of  $\overline{PR}$ ?
  - (A) 6
  - (B) 12
  - (C) 18
  - (D) 24
  - (E) 36

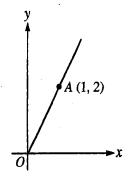
- $\frac{6}{n}$ ,  $\frac{12}{n}$ ,  $\frac{4}{n}$
- 3. For which of the following values of n will the fractions above all be integers?
  - (A) 8
  - (B) 6
  - (C) 4
  - (D) 3
  - (E) 2

- 4. A box contains a red marble, a green marble, a yellow marble, a blue marble, and no other marbles. Two marbles are to be chosen at random from the box without replacement. If the first marble chosen is green, what is the probability that the second marble chosen will be blue?
  - (A)  $\frac{1}{4}$
  - (B)  $\frac{1}{3}$
  - (C)  $\frac{1}{2}$
  - (D)  $\frac{2}{3}$
  - (E) 1



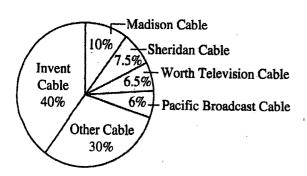
- 5. In the figure above, lines  $\ell$  and k are parallel. What is the value of z?
  - (A) 130
  - (B) 120
  - (C) 100
  - (D) 80
  - (E) 70
- **6.** If 4x 2 = 14, what is the value of 2x 1?
  - (A) 8
  - (B) 7
  - (C) 6
  - (C) 6 (D) 5
  - (E) 4

- Plan 1: \$20 per day plus \$0.30 per mile driven
- Plan 2: \$10 per day plus \$0.35 per mile driven
- 7. Ramón wants to rent a car for a day and can choose from the two rental plans above. For how many miles driven would the two plans cost the same?
  - (A) 50
  - (B) 100
  - (C) 150
  - (D) 200
  - (E) 250



- 8. In the xy-coordinate system above, which of the following points lies on the line that passes through points O and A?
  - (A) (0, 1)
  - (B) (1, 3)
  - (C) (2, 1)
  - (D) (2, 4)
  - (E) (4, 2)

#### WYLIE CITY CABLE SUBSCRIBERS



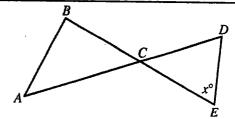
- 9. The circle graph above shows the distribution of cable service subscribers in Wylie City. If Wylie City has 5,000,000 cable subscribers, how many subscribe to cable services other than Invent Cable?
  - (A) 3,000,000
  - (B) 2,000,000
  - (C) 1,000,000
  - (D) 300,000
  - (E) 200,000

b	g(b)
-3	7
-2	4
-1	0
0	-1
1	5

- 10. Some values of the function g are given in the table above. For which of the following values of b does g(b) equal |2b| + 1?
  - (A) -3
  - (B) -2
  - (C) -1
  - (D) 0
  - (E) 1
- 11. If x + x + x = m m m, and m = 3, what is the value of x?
  - (A) -3
  - (B) -1
  - (C) 0
  - (D) 1
  - (E) 3

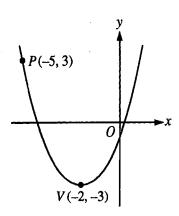
Twice the sum of x and y is decreased by three times the product of x and 2y.

- 12. Which of the following algebraic expressions represents the statement above?
  - (A) 2(x+y)-3x(2y)
  - (B) 2(x+y)-3(x+2y)
  - (C) 2x + y 3x(2y)
  - (D) 2xy 3(x + 2y)
  - (E) 2xy 3x(2y)
- 13. If the surface area of a cube is 48 square inches, what is the area, in square inches, of one of the faces?
  - (A) 6
  - (B) 8
  - (C) 9
  - (D) 10
  - (E) 12
- 14. For which of the following values of x is the value of  $\frac{1}{x}$  least?
  - (A)  $\frac{1}{16}$
  - $(\mathbf{B}) \quad \frac{1}{4}$
  - (C) 1
  - (D) 4
  - (E) 16



Note: Figure not drawn to scale.

- 15. In the figure above, AB = BC, CE = CD, and x = 70. What is the measure of  $\angle ABC$ ?
  - (A) 40°
  - (B) 70°
  - (C) 100°
  - (D) 110°
  - (E) 140°

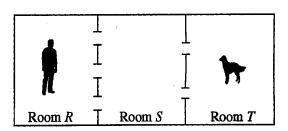


- 16. In the xy-plane above, the parabola with vertex V is the graph of a quadratic function. Which of the following must be the coordinates of another point on the parabola?
  - (A) (1, 1)
  - (B) (1, 2)
  - (C) (1, 3)
  - (D) (2, 2)
  - (E) (2,3)

Number	Frequency
80	x
88	у
89	. 15
90	19
100	11

- 17. The table above shows the only five numbers that appear in a data set containing 91 numbers. It also shows the frequency with which each number appears in the data set. If 80 is the only mode and 88 is the median, what is the greatest possible value of y?
  - (A) 26
  - (B) 24
  - (C) 23
  - (D) 22
  - (E) 20

- $\frac{1}{x}$   $\frac{1}{y}$
- 18. On the number line above, the tick marks are equally spaced. Which of the following expresses y in terms of x?
  - (A) x + 2
  - (B) 2x + 1
  - (C) 2x + 2
  - (D) 3x 2
  - (E) 3x



- 19. The figure above shows the layout of three rooms, and the spaces in the walls indicate the locations of five doors. Starting from room T, a dog will travel through the rooms to greet his owner in room R and will return to room T without passing through the same door twice. How many different routes through the doors can the dog take?
  - (A) 5
  - (B) 6
  - (C) 8
  - (D) 10
  - (E) 12
- **20.** Which of the following must be true for all values of x?

I. 
$$(x+1)^2 \ge x^2$$

II. 
$$(x-2)^2 \ge 0$$

III. 
$$x^2 + 1 \ge 2x$$

- (A) I only
- (B) II 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 3**

Time - 25 minutes 24 Questions (25-48)

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



- 25. The ancient Greeks so firmly believed in the ----power of music that physicians prescribed it as an antidote to snakebites.
  - (A) limited
    - (B) social
- (C) healing
- (D) educational (E) subjective
- 26. The eloquence and clarity of Barbara Jordan's keynote address at the 1976 Democratic National Convention confirmed Jordan's reputation as ----- public speaker.
  - (A) a frustrated
    - (B) a humorous
    - (C) an effective
- (D) an unhurried
- (E) a tentative

- 27. Architectural structures can sometimes ----- the spread of plant species by ----- the normal dispersal of seeds.
  - (A) facilitate . . preventing
  - (B) ensure . . stratifying
  - (C) disrupt . . obstructing
  - (D) hinder . . circulating
  - (E) accentuate . . highlighting
- 28. Although Albert Collins ----- the styles of other blues guitarists, he was clearly -----, playing without a pick and using unorthodox minor tunings.
  - (A) flaunted . . an extrovert
  - (B) rejected . . a maverick
  - (C) decried . . an apprentice
  - (D) imitated . . a classicist
  - (E) emulated . . an original
- 29. Some mistook Josh's ----- for detachment: because he was shy and reserved, they assumed he was -----.
  - (A) reticence..pensive
  - (B) exuberance . . standoffish
  - (C) modesty..humble
  - (D) quirkiness . . arrogant
  - (E) diffidence . . aloof



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 <u>stated</u> or <u>implied</u> in the passages and in any introductory material that may be provided.

#### Questions 30-33 are based on the following passages.

#### Passage 1

Last New Year's Eve, many of you doubtlessly resolved to be better, wiser, stronger, and richer in the coming months and years. After all, we're free humans, not robots doomed to repeat the same boring mistakes over and over again, right? As William James wrote in 1890, the whole "sting and excitement" of life comes from "our sense that in it things are really being decided from one moment to another, and that it is not the dull rattling off of a chain that was forged innumerable ages ago." Get over it, Dr. James. A bevy of experiments in recent years suggests that the conscious mind is like a monkey riding a tiger of subconscious decisions and actions in progress, frantically making up stories about being in control.

#### Passage 2

It is safe to say that neuroscience these days views

brain chemistry and anatomy as having a greater impact
on human behavior and the formation of character than
free will does. But every serious creative writer, of course,
must come down on the side of free will. You might ask,
what choice have we? Without free will there would be
no literature in the first place: no drama, no insights into
human nature, little, really, but the drab playing out of the
hands we have been dealt. Artists are the natural opponents
of determinism.

- **30.** The author of Passage 1 would argue that the "bevy of experiments" (line 10) suggests which of the following about the writers mentioned in Passage 2?
  - (A) They are deluding themselves.
  - (B) They must overcome long odds.
  - (C) They are not as important as they think.
  - (D) They need not work to develop their talents.
  - (E) They come from all walks of life.

- 31. The proponents of "neuroscience" (line 14, Passage 2) would probably argue that the New Year's resolutions mentioned in the first sentence of Passage 1 are
  - (A) an effective means of self-improvement
  - (B) a reflection of a basic human desire to seek perfection
  - (C) unlikely to be the cause of a great change in anyone's character
  - (D) proof of the decisive role played by brain chemistry
  - (E) evidence of the ongoing tension between the rational mind and subconscious desires
- 32. The reference to the "playing out of the hands" (lines 21-22, Passage 2) most closely echoes which of the following from Passage 1?
  - (A) The "'sting and excitement' of life" (line 6)
  - (B) The "'rattling off of a chain" (lines 8-9)
  - (C) The "bevy of experiments" (line 10)
  - (D) The "monkey riding a tiger" (lines 11-12)
  - (E) The "making up stories about being in control" (line 13)
- 33. Which best describes the relationship between the two passages?
  - (A) Passage 2 relates a personal anecdote that exemplifies the conclusion drawn in Passage 1.
  - (B) Passage 2 offers evidence that disproves the central hypothesis advanced in Passage 1.
  - (C) Passage 2 presents a possible solution to the set of problems described in Passage 1.
  - (D) Passage 2 calls attention to people who deny a fundamental claim made in Passage 1.
  - (E) Passage 2 carries to its logical conclusion the position advocated in Passage 1.



#### Questions 34-39 are based on the following passage.

The narrator of this passage from a twentieth-century novel is a seventy-six-year-old writer from England. Her recollections often return to her brother, Gordon, and her daughter, Lisa.

Today language abandoned me. I could not find the word for a simple object—a commonplace familiar furnishing. For an instant, I stared into a void. Language tethers us to the world; without it we spin like atoms. Later, I made an inventory of the room—a naming of parts: bed, chair, table, picture, vase, cupboard, window, curtain. Curtain. And I breathed again.

We open our mouths and out flow words whose ancestries we do not even know. We are walking lexicons. In a single sentence of idle chatter we preserve Latin, Anglo-Saxon, Norse; we carry a museum inside our heads, each day commemorating people of whom we have never heard. More than that, we speak volumes—our language is the language of everything we have not read. Shakespeare and the Authorised Version<sup>1</sup> surface in supermarkets, on buses, in chatter on radio and television. I find this miraculous. I never cease to wonder at it. That words are more durable than anything, that they blow with the wind, hibernate and reawaken, shelter parasitic on the most unlikely hosts, survive and survive and survive.

I can remember the lush spring excitement of language in childhood. Sitting in church, rolling it around my mouth like marbles—tabernacle and parable, trespasses and Babylon and covenant. Learning by heart, chanting at the top of my voice—"Lars Porsena of Clusium, By the Nine Gods he swore, That the great House of Tarquin, Should suffer wrong no more ..."2 Gloating over Gordon who could not spell ANTIDISESTABLISHMENTARIANISM, the longest word in the dictionary. Rhyming and 30 blaspheming and marvelling. I collected the names of stars and of plants: Arcturus and Orion and Betelgeuse, melilot and fumitory and toadflax. There was no end to it, apparently—it was like the grains of sand on the shore, the leaves on the great ash outside my bedroom window, 35 immeasurable and unconquerable. "Does anyone know all the words in the world?" I ask Mother. "Anyone?" "I expect very clever men do," says Mother vaguely.

Lisa, as a child, most interested me when I watched her struggle with language. I was not a good mother, in any conventional sense. Babies I find faintly repellent; young children are boring and distracting. When Lisa began to talk I listened to her. I corrected the inanities encouraged by her grandmothers. "Dog," I said. "Horse. Cat. There are

no such things as bow-wows and gee-gees." "Horse," said
Lisa, thoughtfully, tasting the word. For the first time we
communicated. "Gee-gee gone?" enquired Lisa. "That's
right," I said. "Gone. Clever girl." And Lisa took a step
toward maturity.

- 34. The primary purpose of the passage is to
- (A) explain the narrator's interest in the origins of
  - Modern English

    (B) detail the narrator's difficulty mastering language as a child
  - (C) show the narrator's appreciation of language
  - (D) demonstrate the narrator's knowledge of esoteric words
  - (E) show how the narrator increased her language skills as she grew up
- 35. The tone of the sentence in line 7 ("And . . . again") is best characterized as one of
  - (A) joy
  - (B) relief
  - (C) puzzlement
  - (D) frustration
  - (E) anger
- **36.** Lines 10-13 ("In a . . . heard") most directly emphasize which point?
  - (A) The English language is quite difficult to learn.
  - (B) Ancient languages are perpetuated in everyday English speech.
  - (C) The narrator is unaware of her pretentious use of language.
  - (D) The general public prefers to be ignorant of the heritage of English.
  - (E) Languages whose ancestries the narrator does not know are as complex as English.

 $<sup>^1</sup>$  Influential translation of the Bible, first published in 1611  $^2$  The beginning of Thomas B. Macaulay's poem "Horatius"



# PRACTICE TEST





3

- 37. The passage suggests that the narrator was most likely fascinated by the words in lines 23-24 ("tabernacle... covenant") because of their
  - (A) clarity of meaning
  - (B) religious significance
  - (C) frequency in conversation
  - (D) sensory qualities
  - (E) rich history
- **38.** In line 33, "grains of sand" primarily serves as an image of something
  - (A) very small
  - (B) essentially weak
  - (C) highly insignificant
  - (D) strikingly homogeneous
  - (E) seemingly infinite

- **39.** The dialogue in lines 43-47 suggests that for the narrator, Lisa's question signals a recognition that
  - (A) imaginary creatures do not exist
  - (B) childish vocabulary should be abandoned
  - (C) fascination with animals is immature
  - (D) adults should not be trusted
  - (E) words can be aesthetically pleasing



# PRACTICE TEST

3



3

#### Questions 40-48 are based on the following passage.

This passage is adapted from a 1988 book that examines the influence of Native American cultures on other world cultures. Here, the author discusses Machu Picchu, the ruins of an ancient Incan city located on a remote and steeply terraced mountainside in South America.

There is only one Machu Picchu, but it guards many mysteries. The ruins of this ancient Peruvian city sit perched 8,000 feet above sea level on a mountain overlooking the Urubamba River. Even though in size Machu Picchu barely surpasses a village, the ruins show a complexity indicative of a much more important place: precision-crafted buildings with neat regular lines, beveled edges, and mortarless seams that characterize the best of Incan architecture. The spectacular setting combined with the exquisitely wrought buildings have evoked much speculation and much romantic rubbish about the purpose of the city. The explorer Hiram Bingham who "discovered" Machu Picchu erroneously assumed that he had found the capital of the Incan empire. Many other people assumed that its purpose was religious, thus dubbing it the "sacred city of the Incas."

None of this agrees with what we know about the Incas. They did not build large pyramids to please their gods. They did not build observatories to watch the patterns of the stars. Indeed, they displayed an austere practicality in every aspect of their lives and showed little hint of religious fervor and no tendency toward either the sentimental or the superstitious.

In light of this practicality, the existence of Machu Picchu seems all the more puzzling. Why would the Incas build a city and line the mountain with terraces even though there was very little soil there? The builders used the best techniques known to them to make terraces that would last for eternity. Then the workers added layers of rock and clay as subsoil, and from the river below hauled up rich dirt over steep embankments half a mile high. This task would be the equivalent of hauling dirt from the Colorado River to plant crops on top of the Grand Canyon.

The Incas built hundreds of these terraces, all of them quite small for any kind of extensive agriculture. Some of them narrow to as little as six inches in width. Such an arrangement makes no more sense than if people today decided to start farming using large flower boxes.

A hint of the possible function of Machu Picchu came to me while hiking there with a friend who is a botanist. We had approached via a trail perched high in the saddle of the mountain dividing the Machu Picchu side of the mountain from a dry inland valley. Standing in this gateway one sees two worlds: the brown and lifeless valley

and the lush emerald-green valley watered by the thick fogs of the Urubamba River. As we descended toward the city from this high pass, I stared out at the spectacular landscape. While I looked up and down the long vistas of the Urubamba, my friend was looking at the vegetation and naming everything growing along the path. I found this distracting from the big picture but, as we descended and passed from one terrace to another, the plant names changed. We were passing through a series of ecological

layers, as one does on many mountains in the Andes. The mountainside is laid out in strips of vegetation and microzones. The place is a scientist's dream—the perfect location for all kinds of controlled experiments. Viewed in that context, the small terraces took on new meaning as experimental patches at a range of altitudes and built at so many different angles, facing the morning sun, the evening sun, constant sun, or no sun.

In my mind, Machu Picchu suddenly became an agricultural station. And in that sense it was indeed a sacred spot, because agriculture was a sacred activity for the Incas. They had been among the world's great experimenters with agriculture, and they built numerous experimental areas where crops could be grown in different ways. It would not be surprising if the Incas devoted a place such as Machu Picchu to just such an activity.

- **40.** In context, lines 7-9 ("precision-crafted . . . architecture") serve primarily to
  - (A) suggest that Machu Picchu was built to withstand forceful military assaults
  - (B) provide details supporting the claim that Machu Picchu was a significant place
  - (C) show how conflicting architectural styles contribute to the mysteriousness of Machu Picchu
  - (D) present an argument about Incan architecture that challenges established theories
  - (E) compare Incan structures designed for political and for religious purposes
- 41. The author uses the term "romantic rubbish" (line 11) to imply that many previous theories about the purpose of Machu Picchu were excessively
  - (A) softhearted
  - (B) ambitious
  - (C) fanciful
  - (D) pessimistic
  - (E) archaic





- **42.** The passage as a whole suggests that the author would most likely give which answer to the question in lines 25-27 ("Why would...there")?
  - (A) To provide a secure and remote location for a capital city
  - (B) To encourage religious reflection in an ascetic setting
  - (C) To study various types of plants in a controlled setting
  - (D) To provide meaningful labor for workers hauling up rocks and soil
  - (E) To inspire people to move from more crowded parts of the empire
- **43.** In lines 31-33 ("This . . . Canyon"), the author attempts to clarify an idea by
  - (A) citing an authority
  - (B) making a comparison
  - (C) defining a term
  - (D) providing a solution
  - (E) offering an overview
- 44. In line 39, the focus of the passage shifts from a
  - (A) description of an enigma to a hypothesis about its purpose
  - (B) chronicle of an event to a suggestion about its repercussions
  - (C) discussion of an argument to an analysis of its weakness
  - (D) portrayal of a mystery to a criticism of one proposed explanation
  - (E) consideration of an achievement to a speculation about how it was accomplished

- 45. In line 45, "watered" most nearly means
  - (A) cleansed
  - (B) diluted
  - (C) consumed
  - (D) secreted
  - (E) moistened
- **46.** The author implies that the "layers" (line 54) are noteworthy primarily because they
  - (A) suggest an artistic purpose
  - (B) reflect centuries of habitation
  - (C) conceal unexpected resources
  - (D) include multiple zones of plant life
  - (E) reveal the order of a formal garden
- 47. In line 59, "patches" most nearly means
  - (A) materials
  - (B) scraps
  - (C) decorations
  - (D) plots
  - (E) repairs
- 48. The primary purpose of the passage as a whole is to
  - (A) report known facts
  - (B) challenge previous data
  - (C) present a personal theory
  - (D) compare ancient cultures
  - (E) describe a mysterious location

# 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.

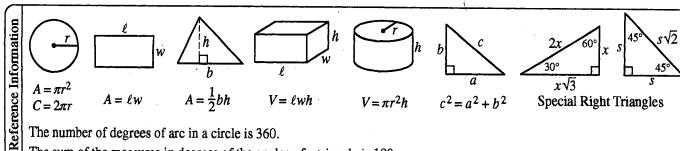
#### **SECTION 4**

Time — 25 minutes 18 Questions (21-38)

Directions: This section contains two types of questions. You have 25 minutes to complete both types. For questions 21-28, 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 scratch work.

- 1. The use of a calculator is permitted.
- 2. All numbers used are real numbers.

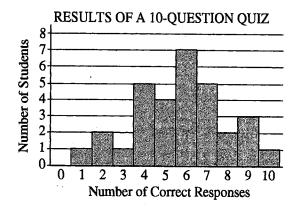
- 3. Figures that accompany problems in this test are intended to provide information useful in solving the problems. They are drawn as accurately as possible EXCEPT when it is stated in a specific problem that the figure is not drawn to scale. All figures lie in a plane unless otherwise indicated.
- 4. 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.



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

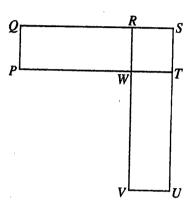
The sum of the measures in degrees of the angles of a triangle is 180.

- **21.** If 6xyz = 72 and xy = 3, what is the value of z?
  - (A) 3
  - (B) 4
  - (C)
  - (D) 12
  - (E) 36



- 22. The graph above shows the distribution of the number of correct responses on a 10-question quiz for a class of students. How many students had more than 7 correct responses on the quiz?
  - (A) None
  - (B) Two
  - Three
  - (D) Five
  - (E) Six

- 23. N is the set of all positive multiples of 3, and W is the set of all squares of integers. Which of the following numbers belongs to both sets?
  - (A) 3
  - (B) 16
  - (C) 25
  - (D) 36
  - (E) 72



Note: Figure not drawn to scale.

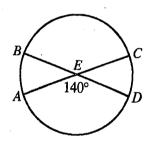
- 24. In the figure above, PQST and VRSU are rectangles with the same dimensions. If the length of segment  $\overline{RS}$  is 2 and the area of PQST is 14, what is the length of segment  $\overline{QR}$ ?
  - (A) 5
  - (B) 7
  - (C) 8
  - (D) 10
  - (E) 12

$$y=3(x+2)$$

$$z=3(x+3)$$

- 25. If the equations above are true, then z is how much greater than y?
  - (A) 1
  - (B) 3
  - (C) 6
  - (D) 7 (E) 9

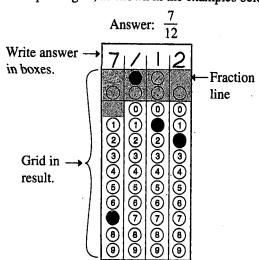
- **26.** In  $\triangle ABC$ , AB = 5 and BC = 7. Which of the following CANNOT be the length of side  $\overline{AC}$ ?
  - (A) 1
  - (B) 3
  - (C) 5 (D) 7
  - (E) 9
- 27. A drawer contains 6 red socks, 6 white socks, 6 blue socks, and no other socks. If socks are selected at random from the drawer, what is the least number of socks that must be selected to ensure that two socks of the same color are selected?
  - (A) 2
  - (B) 3
  - (C) 4
  - (D) 6
  - (E) 7



- **28.** In the figure above,  $\overline{AC}$  and  $\overline{BD}$  are diameters of the circle, which has a radius of 9. What is the sum of the lengths of arcs  $\widehat{AB}$  and  $\widehat{CD}$ ?
  - (A)  $2\pi$
  - (B)  $3\pi$
  - (C)  $4\pi$
  - (D)  $6\pi$
  - (E)  $8\pi$

# **Directions for Student-Produced Response Questions**

Each of the remaining 10 questions requires you to solve the problem and enter your answer by marking the circles in the special grid, as shown in the examples below. You may use any available space for scratch work.



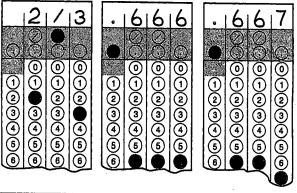
**Note:** You may start your answers in any column, space permitting. Columns not needed should be left blank.

- Mark no more than one circle in any column.
- Because the answer sheet will be machinescored, you will receive credit only if the circles are filled in correctly.
- Although not required, it is suggested that you write your answer in the boxes at the top of the columns to help you fill in the circles accurately.
- Some problems may have more than one correct answer. In such cases, grid only one answer.
- No question has a negative answer.
- Mixed numbers such as  $3\frac{1}{2}$  must be gridded as

3.5 or 7/2. (If 3 | 1 | / 2 is gridded, it will be interpreted as  $\frac{31}{2}$ , not  $3\frac{1}{2}$ .)

Decimal Answers: If you obtain a decimal answer with more digits than the grid can accommodate, it may be either rounded or truncated, but it must fill the entire grid. For example, if you obtain an answer such as 0.6666..., you should record your result as .666 or .667. A less accurate value such as .66 or .67 will be scored as incorrect.

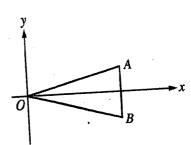
Acceptable ways to grid  $\frac{2}{3}$  are:



- 29. If  $x^{\circ}$ ,  $3x^{\circ}$ , and 20° are the measures of the three angles of a triangle, what is the value of x?
- **30.** There are 1200 students at Jones High School. If 10 percent of them did not read any novels last semester, how many read at least one novel last semester?
- 31. If  $y = 2^a \cdot 2^b$  and a + b = 4, what is the value of y?
- 32. The cost, in dollars, of a t-year membership package in a professional organization is given by the function C, defined by C(t) = 100(t + k), where k is a constant. If the cost of a 2-year membership package is \$500, what is the cost, in dollars, of a 3-year membership package? (Disregard the \$ sign when gridding your answer.)

- 33. A square with sides of length 6 is divided into nine smaller squares of equal size. What is the perimeter of one of the smaller squares?
- 34. If a represents the greatest prime number less than 100 and b represents the least prime number greater than 10, what is the value of a + b?

- 2, 12, 72, 432, ...
- 36. In the sequence above, the first term is 2 and each term after the first is k times the preceding term, where k is a constant. What is the value of the 52nd term divided by the 50th term?
  - 37. If x and y are numbers whose average (arithmetic mean) is 1 and whose difference is 1, what is the product of x and y?



38. In the xy-plane above, points O, A, and B are the three vertices of a triangle. The coordinates of A and B are (6, p) and (6, -p), respectively, where p is a positive number. If the area of  $\triangle OAB$  is greater than 9 but less than 10, what is one possible value of p?

## CHANGE IN DEPTH OF LAKE ALEXANDER

13211	
Year	Change in meters
1996	+150
1997	-125
1998	+75
1999	-125
2000	+75
	_1

35. The table above shows the change in the depth of Lake Alexander from the beginning to the end of each year. At the beginning of 1996, the depth of Lake Alexander was 400 meters. The depth of Lake Alexander at the beginning of 2000 was what fraction of its depth at the end of 2000?

# 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.





5

#### **SECTION 5**

Time — 30 minutes 39 Questions (1-39)

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



- 1. The graduation speaker advised the students to devote yourself to a few passions and to seek excellence in those specific areas.
  - (A) to devote yourself
  - (B) to devote themselves
  - (C) to all devote oneself
  - (D) that each devote yourself
  - (E) for them to devote themselves

- 2. In 1865, abolitionist minister Henry Highland Garnet became the first African American to address the House of Representatives when he speaks about the nation's obligation to protect the rights of the newly emancipated.
  - (A) when he speaks about the nation's obligation
  - (B) when he spoke about the nation's obligation
  - (C) where speaking about the nation's obligation
  - (D) where he speaks about the nation is obligated
  - (E) where he has spoken about the obligation by
- 3. Although cats have nocturnal vision that is far superior to that of humans, objects in total darkness cannot be seen by them.
  - (A) objects in total darkness cannot be seen by them
  - (B) objects cannot be seen in total darkness by cats
  - (C) their seeing of objects in total darkness cannot be done
  - (D) cats' seeing objects in total darkness cannot be done
  - (E) they cannot see objects in total darkness
- 4. George started saving money when he was six years old, so by the time of his becoming a teenager he had enough to pay for a trip to Japan to visit his grandparents.
  - (A) so by the time of his becoming
  - (B) so that by the time when he became
  - (C) so by the time he became
  - (D) and by the time he would become
  - (E) and by the time when he had become





5

- 5. The great sixteenth-century Mughal ruler Jalaluddin Muhammad Akbar turning his city into a center of learning and inviting holy men from all of India's different religions to come to discuss metaphysics.
  - (A) turning his city into a center of learning and inviting
  - (B) turning his city into a center of learning, and he invited
  - (C) turning his city into a center of learning by inviting
  - (D) turned his city into a center of learning, he invited
  - (E) turned his city into a center of learning by inviting
- 6. In her autobiography, Edith Wharton, who was a close friend of fellow novelist Henry James, included observations about he and other writers.
  - (A) included observations about he
  - (B) included observations about him
  - (C) including observations about him
  - (D) she included observations about he
  - (E) she had included observations about him
- 7. Primatologist Janis Carter arrived in West Africa in 1977 for what she expected to be a stay of only three weeks, so she remained there to this day.
  - (A) so she remained there
  - (B) there she was to remain
  - (C) there she is remaining
  - (D) where she had remained
  - (E) but she has remained there
- 8. Although natural changes account for the extinction of some bird species, human actions such as excessive hunting, habitats being destroyed, and predators being introduced are more common causes.
  - (A) excessive hunting, habitats being destroyed, and predators being introduced
  - (B) excessive hunting, the destruction of habitats, and the introduction of predators
  - (C) excesses in hunting, in destroying habitats, and introducing predators
  - (D) hunting was excessive, habitats were destroyed, and predators introduced
  - (E) the fact that they hunted excessively, destroyed habitats, and introduced predators

- 9. By having allergies that flare up in the fall and the spring causes many students to miss classes at critical periods of the semester.
  - (A) By having allergies that flare up in the fall and the spring causes many students
  - (B) By allergies flaring up in the fall and the spring causes many students
  - (C) Many students, having allergies that flare up in the fall and the spring, are caused
  - (D) Flaring up in the fall and the spring, many students have allergies that cause them
  - (E) Allergies that flare up in the fall and the spring cause many students
- 10. Our parents' friends <u>have been going</u> to the same place for their summer vacation every year for the past fifteen years.
  - (A) have been going
  - (B) who have been going
  - (C) had went
  - (D) are going
  - (E) go
- 11. After serving ten years as foreign minister, they elected Golda Meir prime minister of Israel in 1969.
  - (A) they elected Golda Meir prime minister of Israel
  - (B) Israel elected Golda Meir their prime minister
  - (C) Israel elected Golda Meir prime minister
  - (D) Golda Meir was elected prime minister of Israel
  - (E) Golda Meir's election as Israel's prime minister was
- 12. Because of the murkiness of copyright law and the extension of copyright protections in 1998, the status of a work whose author has died is often difficult to determine.
  - (A) of a work whose author has died
  - (B) of a work with the author having died
  - (C) of a work where the author's death
  - (D) when a work's author had died
  - (E) when the author of a work was dead
- 13. Senator Garcia has four <u>children</u>, two of whom have decided to follow their father into public service.
  - (A) children, two of whom have
  - (B) children, and two of whom have
  - (C) children, whereas two of them have
  - (D) children; of them, two having
  - (E) children; however, two having

- 14. Long thought to be a fruit unfit for eating, they did not cultivate the tomato widely in North America until the early twentieth century.
  - (A) they did not cultivate the tomato widely in North America
  - (B) North Americans did not cultivate tomatoes widely
  - (C) North America did not see widespread cultivation of the tomato
  - (D) the tomato was not widely cultivated in North America
  - (E) tomatoes have not been widely cultivated in North America
- 15. The changes in the city council's recycling policy has frustrated city residents, who feel that curbside pickup of recyclables should occur weekly, not biweekly.
  - (A) The changes in the city council's recycling policy has frustrated city residents,
  - (B) The changes in the city council's recycling policy, they have frustrated city residents,
  - (C) The changes in the city council's recycling policy have frustrated city residents,
  - (D) Frustrated by changes in the city council's recycling policy, city residents
  - (E) City residents were frustrated by the change in the city council's recycling policy and
- 16. The president of the publishing company said that her firm sold more electronic books in the first four months of 2008 as they sold in all of 2007.
  - (A) as they sold
  - (B) as it did
  - (C) than was sold
  - (D) than they have
  - (E) than it did
- 17. In addition to racing rocket-powered vehicles, Kitty O'Neil worked as a <u>stuntwoman</u>, she <u>performed physical feats called for</u> in shows such as *The Bionic Woman*.
  - (A) stuntwoman, she performed physical feats called for
  - (B) stuntwoman, performing physical feats that is being called for
  - (C) stuntwoman, who performed physical feats they called for
  - (D) stuntwoman, performing the physical feats called for
  - (E) stuntwoman, and she was performing called-for physical feats

- **18.** The success of *Dracula*, Bram Stoker's novel about a Transylvanian vampire, <u>far surpassing any of his other novels dealing with supernatural themes.</u>
  - (A) far surpassing any of his other novels dealing with
  - (B) far surpassing those of any of his other novels that dealt with
  - (C) far surpassed that of any of his other novels dealing with
  - (D) far surpassed any of his other novels dealing with
  - (E) surpassing by far those other novels of his that dealt with
- **19.** Exhibitions of some works by modern artists have spurred political controversy over <u>should they</u> continue federal support of art.
  - (A) should they continue federal support of art
  - (B) should federal support of art continue
  - (C) continued federal support of art
  - (D) whether art should be continued to be supported federally
  - (E) federal support of art and continuing it
- 20. Lily Dale, the heroine of Anthony Trollope's serialized novel *The Small House at Allington*, captivated readers to where they deluged the author with letters pleading that he have her marry her admirer, Johnny Eames.
  - (A) captivated readers to where
  - (B) so captivated readers that
  - (C) because she captivated readers,
  - (D) who captivated readers so that
  - (E) she was so captivating to readers that



### PRACTICE TEST



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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:**

neutral states. No error

A • © D E

21. All along the highway  $\frac{\text{was}}{A}$  vacant new office

buildings, evidence that the economic boom the area

had experienced was proving to be short-lived.

No error

**.** 

22.  $\frac{\text{Many of }}{A}$  the novels and short stories written by

Sarah Orne Jewett were inspired by everyday life

in the seaport town in Maine where she had grew up.  $\frac{1}{C}$ 

No error

23. Farmers who face droughts, tornadoes, and

 $\frac{\text{have falling prices}}{B} \quad \text{for } \underbrace{\frac{\text{their crops}}{C}} \quad \underbrace{\frac{\text{must often work}}{D}}$ 

long hours seven days a week. No error

24. Leaving his  $\frac{\text{beloved}}{A}$  science fiction books at home

when  $\frac{\text{he went}}{B}$  to camp last summer  $\frac{\text{were}}{C}$  among the

most difficult things that Marek had ever done.

No error

25. Both of the candidates  $\frac{\text{running for}}{A}$  governor had

been <u>a teacher</u> before going into politics, <u>yet</u> C

they disagreed about many issues related to

public education.  $\frac{\text{No error}}{\text{E}}$ 

26. Her latest novel, depicting a young girl's coming

A

of age in Harlem during the 1940s, is even

B

C

more livelier than her earlier books. No error

27. The history of science has more than their  $\frac{1}{R}$ 

share of underdog stories,  $\frac{\text{but few}}{C}$  of them are

as remarkable as the story of Shuji Nakamura,

inventor of the blue laser diode. No error E



# PRACTICE TEST



5

28. Dr. Sandford said that astronomers will

 $\frac{\text{soon be able}}{A}$  to measure  $\frac{\text{distances between}}{B}$  the

stars with an accuracy that ten years ago would seem  $\frac{C}{D}$ 

impossible. No error  $\overline{E}$ 

29. The word "lanyard" describes a cord to which an  $\frac{1}{A}$ 

employee  $\frac{\text{might attach}}{B}$  an identification card, but

the word seems sinister when  $\frac{\text{one learns}}{C}$  that it is

 $\frac{\text{derived by}}{D} \text{ an Old French word for "noose."} \frac{\text{No error}}{E}$ 

30. Humans have long been inventing tools, and this  $\frac{A}{A}$ 

 $\frac{\text{film documents}}{B} \text{ the amazing creativity } \frac{\text{with which}}{C}$ 

tools have been developed  $\frac{1}{D}$  through the ages. No error

31.  $\frac{\text{Viewing it}}{A}$  from Earth, the planet Mars seems

to be rushing eastward through the constellations,

 $\frac{\text{as if }}{C}$   $\frac{\text{in a futile effort}}{D}$  to escape from the Sun.

No error

- 32. A casual observer might mistake a viola for a violin,

  A since they are very similar in appearance, but the

  B tone of a viola is deeper than a violin. No error
- 33. At the site of a royal tomb in Shaanxi Province, China, archaeologists  $\frac{\text{have unearthed}}{A}$  thousands of life-size terra-cotta statues of soldiers,  $\frac{\text{no two}}{B}$  of which  $\frac{\text{are}}{C}$   $\frac{\text{exactly alike}}{D}$ .  $\frac{\text{No error}}{E}$
- 34. Though The Second World War, a book by

  Sir Winston Churchill, was respectively received

  B

  when it was first published, it is not D

  regarded by historians today. No error





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 35-39 refer to the following passage.

- (1) We usually think of facial expressions as outward signs of feelings people are experiencing. (2) A feeling, we assume, causes a corresponding expression. (3) However, groundbreaking research by psychologist Paul Ekman has shown that the opposite is sometimes true. (4) Making a particular kind of face, it turns out, can actually cause someone to experience the emotion associated with that expression.
- (5) Ekman needed a precise way of identifying common facial expressions. (6) He painstakingly catalogued the muscle movements that pull our facial features into various configurations, giving each of these "Action Units" a distinct numerical designation. (7) Ekman's Action Units vary in complexity. (8) A wink, for example, involves the twitch of a single muscle that wraps around the eye. (9) A smile, therefore, is quite complex. (10) Ekman identified 19 kinds of smiles, each engaging a slightly different combination of many muscles.
- (11) Ekman catalogued the various facial expressions. (12) He began to study their physical and emotional effects. (13) Participants in the study were asked not to express specific emotions but rather to produce particular Action Units. (14) Ekman found that when subjects produced an Action Unit associated with anger, their heart rates increased and their fingers became warmer. (15) When they produced an Action Unit associated with fear, their fingers became colder. (16) For that reason, Ekman concluded that a facial expression can be the cause, as well as the effect, of an emotion and its associated physical state.

35. Where in the passage would the following sentence most appropriately be inserted?

Accordingly, a furrowed brow is identified as Action Unit 4, a dropped jaw as Action Unit 26, and so forth.

- (A) Immediately after sentence 3
- (B) Immediately after sentence 5
- (C) Immediately after sentence 6
- (D) Immediately after sentence 12
- (E) Immediately after sentence 14
- 36. Which of the following phrases, if inserted at the beginning of sentence 5 (reproduced below), would best link the first and second paragraphs?

Ekman needed a precise way of identifying common facial expressions.

- (A) It was now obvious that
- (B) Because of these limitations,
- (C) For similar reasons.
- (D) In order to conduct his research,
- (E) Based on those results,
- 37. In context, which of the following revisions to sentence 9 (reproduced below) is most needed?

A smile, therefore, is quite complex.

- (A) Changing "A" to "This kind of"
- (B) Changing "therefore" to "by comparison"
- (C) Changing "is" to "can be"
- (D) Deleting "quite"
- (E) Changing "complex" to "complicated"





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38. In context, which is the most effective revision of the underlined portion of sentences 11 and 12 (reproduced below)?

Ekman catalogued the various facial expressions. He began to study their physical and emotional effects.

- (A) Ekman catalogued the various facial expressions, and he began
- (B) Ekman instead catalogued the various facial expressions before beginning
- (C) Because he catalogued the various facial expressions, Ekman began
- (D) Although he had already catalogued the various facial expressions, Ekman began
- (E) Once he had catalogued the various facial expressions, Ekman began

39. In context, which of the following phrases would most appropriately be inserted at the beginning of sentence 15 (reproduced below)?

When they produced an Action Unit associated with fear, their fingers became colder.

- (A) In contrast,
- (B) In other words.
- (C) Meanwhile,
- (D) Unfortunately,
- (E) Above all,

## 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.

# Get your Critical Reading Score.

- 1. Check your responses with correct answers at the bottom of this page.
- 2. How many critical reading questions (1-48) did you get wrong?\*

  Multiply by .25. \_\_\_\_\_\_ (A)
- 3. How many critical reading questions did you get right? \_\_\_\_\_ (B)
- 4. Subtract A from B. — = Critical Reading Points Round up if .5 or more; down, if less than .5.
- 5. Use the table to find your Critical Reading Score.

# Get your Mathematics Score.

- 1. Check your responses with correct answers at the bottom of this page.
- 2. How many math questions between 1 and 28 did you get wrong?\*

  Multiply by .25. \_\_\_\_\_(C)
- 3. How many math questions (1-38) did you get right? \_\_\_\_\_(D)
- 4. Subtract C from D. \_\_\_\_ = Mathematics Points Round up if .5 or more; down, if less than .5.
- 5. Use the table to find your Mathematics Score.

## Get your Writing Skills Score.

- 1. Check your responses with correct answers at the bottom of this page.
- 2. How many writing skills questions (1-39) did you get wrong?\*

  \_\_\_\_\_\_ Multiply by .25. \_\_\_\_\_\_ (E)
- 3. How many writing skills questions did you get right? \_\_\_\_\_(F)
- 4. Subtract E from F. \_\_\_\_ = Writing Skills Points Round up if .5 or more; down, if less than .5.
- 5. Use the table to find your Writing Skills Score.
- \* Don't count questions you omitted. For multiple-choice questions, you lose .25 (1/4) point for an incorrect response.

When you take the PSAT/NMSQT, you will receive critical reading, mathematics, and writing skills scores; you will also receive a Selection Index, which National Merit Scholarship Corporation uses in its National Merit\* Scholarship Program. The formula for computing the Selection Index is CR+M+W. For example, assuming that your critical reading score is 51, your mathematics score is 55, and your writing skills score is 50, your Selection Index would be 156.

# These Conversion Tables are for use only with the 2014 Practice Test in this Student Guide.

Points	Score	Points	Score	Points	Score
46	80	.28	54	8	37
47.	80	.27	54		36
46 45 44	77 75	28 27 26 25 24 23 23 21 21 20 49	53	6	35 34 33 32 31 30
745	75	25	52	5	34
44	73 71		51	4	33
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/ 42	70	22/	49	2	31
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33	91	15	43	or below.	
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30	59	22	53 52 51 50 49 48 47 46 45 44 43 42 42 41		
36 38 34 33 33 32 32 51	58	12	41		
31 30	57 56	10 10	40 39		

		MATHE	MATICS		
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38	80	0.2	53	5	35
37	76	21	52	5.75	34
36	73	20	51	4 4	32
35	71	19	50	3.00	31
34	69	18	48	1	29
33	68	. 17	47	1	27
32	67	,16	46	0	24
31	65	15	45	-10	23
30	64	14	44	2	21
29	62	19	43	13	20
28	61	12	42	or below	
27	59	11.	41		
26	58	10 9	40		
25	57	9	39		
24	56	-8	37		
23	54		36		

Points	Score	Points	Score	Points	Score
39 38	80	22	52	5 5	33
38	77	21	51	4	31
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36	71	19	48	2 2	28
35	70	18	47	1	27
34	68	17	45	0	25
33	66	16	45	1	22
32	64	15	44		20
31 -	63	14	43	or below	
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129	61	12	40		
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26	57	9	37		
	56		- 36		

The PSAT/NMSQT score scale ranges from 20 to 80. An average score for junior test-takers is approximately 48 for critical reading, 49 for mathematics, and 46 for writing skills.

# Check your Answers to the Practice Test.

Practice makes a difference!
Take the full-length test on the preceding pages. Then compare your answers with the correct answers here, get your calculator, and follow the directions above for computing your scores.

For explanations of answers to questions on this Practice Test, go to collegeboard.org/psatpractice.

36 V m 38 E m 39 C m 39 C m 39 E p 33 C m 33 E p 33 E p	31. A h 30. E h 53. D h 52. B m 52. B m 52. B m 54. C e	D е У ш С и С и С и	Q         B         C         I/I         D         W         50         I
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Correct Answers Black letter after answer indicates difficulty level (e = easy, m = medium, h = hard).

# Fill us in!

Use your ANSWER SHEET to get information from colleges and scholarship programs.

# Get Information : From Colleges

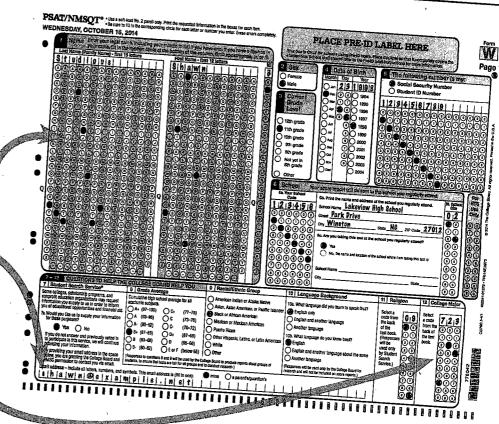
If you would like to receive free information from colleges, universities, nonprofit educational opportunity organizations, some scholarship programs, and the College Board, participate in the Student Search Service.

You must fill in circles correctly for your name and address (with ZIP code) on pages 1 and 4 of your Answer Sheet.

If you also want to receive information via email, clearly print your email address. If you have questions about how the information you provide will be used, please visit collegeboard.org/privacy-policy.

# Get Information About a College Major

Review the majors list on page 9 in the Student Guide or at collegeboard.org/psatcollegemajors before taking the test.



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13c. How many		<u> </u>	2018 O after 2017	O Not planning to attend college
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# Enter the National Merit Scholarship Program

National Merit Scholarship
Corporation (NMSC) can determine
whether you meet requirements
to participate in its 2016 National
Merit Scholarship Program only
if you fill in the circles for all
questions in Section 13.

# Copy and Sign This Certification Statement

Make sure you read the test regulations on page 5 in the Student Guide before test day.

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