# Test

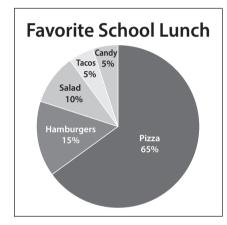
# **WRITING**

#### **Writing Instructions**

- Choose either Task 1 (Article/Proposal) or Task 2 (Essay). Write on only ONE of these tasks.
- Once you have chosen your task, darken the circle for "Article/Proposal" or "Essay" on your writing answer document.
- You will have 45 minutes to write your answer.
- Use #2 (soft) pencil only.

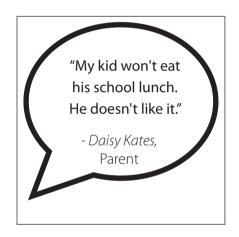
- Use only the lines provided on the writing answer document to complete this section. You should write about two pages.
- Do not write your answer in this booklet.
- You will not be graded on the appearance of your paper, but your handwriting must be readable.
- You may use the planning area provided in this booklet, but it will not count toward your score.

#### **Writing Prompt**



31 million students participate in the **National School Lunch Program** each year.

- a government report



#### Task 1: Article

To promote student health, the government has issued new guidelines limiting salt, sugar, and fat in school lunches. Some people feel this makes meals less flavorful and less enjoyable for students. Write an article for a local news website explaining the impact of the new guidelines and your opinion. Include at least one piece of information given above to support your response.

#### Task 2: Essay

Some people feel schools have a responsibility to encourage children to eat healthy food. Others think it is the parent's responsibility. Write an essay addressing this issue and explain your opinion about it. Include at least one piece of information given above to support your response.

#### Remember

Once you have chosen your task, darken the circle for "Article/Proposal" or "Essay" on your writing answer document.

#### **Listening Section Instructions**

This section of the test has three parts. Mark all your answers on the separate answer sheet. Do not make any stray marks on the answer sheet. If you change your mind about an answer, erase your first answer completely. If you do not know the answer, you may guess. Try to answer as many questions as possible.

#### Part 1

In this part, you will hear 20 short conversations. After each conversation, you will hear a question about it. You will hear each conversation and question once. The answer choices are printed in the test booklet. Mark your answers on the separate answer sheet, not in the test booklet. You should mark A, B, C, or D.

Do you have any questions?

- What is happening?
  - A. The network is having connection problems.
  - B. The woman wants the man to log off the Internet.
  - C. The man has a suggestion to solve the woman's problem.
  - D. The woman is the only person experiencing technical issues.
- What does the man want the woman to do? 2.
  - A. finish her talk
  - B. speak more clearly
  - C. postpone her presentation
  - D. slow down when she speaks
- What does the man want to do? 3.
  - A. move closer to the university
  - B. pay less money to go to school
  - C. get the university to change a rule
  - D. attend university in a different state
- What do the speakers imply?
  - A. They disagree with the actions of their classmates.
  - B. They approve of how a teacher handled an incident.
  - C. They were upset by something that happened in class.
  - D. They thought their teacher should have behaved differently.

- What does the woman describe? 5.
  - A. the reasons for a fashion trend
  - B. a new line of cosmetic products
  - C. the benefits of not using makeup
  - D. a method of taking care of one's skin
- 6. What is the man doing?
  - A. planning to surprise Julia
  - B. making changes to an event
  - C. planning a vacation overseas
  - D. inviting the woman to a party
- What does the man do?
  - A. clarify the meaning of a term
  - B. describe the benefits of his major
  - C. correct the woman's misunderstanding
  - D. explain why he chose the subject he is studying
- What does the woman imply about the film?
  - A. It ran a little too long.
  - B. The man should see it.
  - C. It demands serious attention.
  - D. She disagrees with what he heard about it.
- What does the man imply about the woman?
  - A. Her medicine has no risk of side effects.
  - B. She should avoid overusing the medicine.
  - C. The medicine she used previously did not work.
  - D. She should call him if the medicine fails to control her symptoms.

- 10. What does the woman imply about Charlie?
  - A. She is not certain if he will pass the class.
  - B. She thinks he needs more help than he is receiving.
  - C. She believes he should continue to work with a tutor.
  - D. She is not concerned about his academic performance.
- 11. What do the speakers imply?
  - A. They are planning to go to Brazil to conduct research.
  - B. Journals from Brazil are publishing highquality research.
  - C. The number of research papers from Brazil is a sign of quality.
  - D. They want academic journals to publish more Brazilian research.
- 12. What is happening?
  - A. The cash register is malfunctioning.
  - B. The man needs to pick up some supplies.
  - C. The woman is being trained to use the cash register.
  - D. The man needs to handle a problem in the back room.
- 13. Why does the woman mention chocolate?
  - A. to identify a food she enjoys eating
  - B. to describe a food she believes is unhealthy
  - C. to explain what she does to take care of her health
  - D. to mention a food she does not particularly care for
- 14. What will the man probably do?
  - A. take the less expensive flight
  - B. try to avoid a stopover in Dallas
  - C. spend the night near the airport
  - D. take the flight that leaves earlier
- 15. What is the main topic of the speakers' conversation?
  - A. personal tastes in music
  - B. where to hear live music
  - C. how to entertain a visitor
  - D. the cost of hearing music live

- 16. What are the speakers discussing?
  - A. an advertisement
  - B. recent fashion designs
  - C. the design of a website
  - D. the arrangement of products in a store
- 17. What does the woman find impressive about the man?
  - A. his physical strength
  - B. his father's athletic ability
  - C. his relationship with his father
  - D. his ability to play on a successful team
- 18. What does the woman find surprising about the man?
  - A. the small number of students in his old school
  - B. the length of time since he had last seen an old friend
  - C. the fact that he did not know somebody from his old school
  - D. the number of people from his old school that he did not know
- 19. What does the man say the Internet has changed?
  - A. how people write
  - B. how people read articles
  - C. how people express politeness
  - D. how people communicate professionally
- 20. What did the man do?
  - A. worked hard to meet a deadline
  - B. wrote a paper that he was proud of
  - C. fell asleep and failed to finish his paper
  - D. stayed up all night working with a classmate

#### Part 2

In this part, you will hear three short talks. After each talk, you will hear six questions about it. Before each talk begins, you will have time to preview the questions that are printed in the test booklet.

You will hear each talk and the questions once. If you want to, you may take notes in your booklet as you listen. Mark your answers on the separate answer sheet, not in the test booklet. You should mark A, B, C, or D.

Do you have any questions?

Now you will hear the first talk. Look at the questions.

#### Listen to a health podcast.

- 21. What is the main purpose of this talk?
  - A. to correct a piece of misinformation
  - B. to describe the benefits of eating fiber
  - C. to recommend a health supplement for consumers
  - D. to warn about health problems associated with a food additive
- 22. How does cellulose benefit plants?
  - A. by helping them produce fiber
  - B. by helping them maintain their shape
  - C. by making their cells harder to break down
  - D. by providing nutrients that help plants to grow
- 23. What does the speaker say about the role of cellulose in human diets?
  - A. It strengthens the walls of cells.
  - B. It helps the body absorb other nutrients.
  - C. It aids digestion because it is indigestible.
  - D. It aids the growth of healthy bacteria in the colon.
- 24. What is learned about cellulose as a food additive?
  - A. It is mainly used as a thickening agent.
  - B. It exists in both powdered and liquid form.
  - C. It acts differently in dry and liquid products.
  - D. It is usually added to food for its health benefits.
- 25. Why is wood pulp used in food instead of other sources of cellulose?
  - A. It is less expensive.
  - B. It is easier to obtain.
  - C. It is easier to process.
  - D. It does not add calories.
- 26. Why does the speaker mention salt, sugar, and fat?
  - A. to emphasize the safety of consuming wood pulp
  - B. to demonstrate the danger of eating processed food
  - C. to illustrate the health benefits of consuming cellulose
  - D. to compare the wood pulp issue to other controversies

Now you will hear the second talk. Look at the guestions.

#### Listen to a woman talking about an animal sanctuary.

- What does the speaker say prompted her decision to adopt 27. her first blind cat?
  - A. an argument with the owner of a blind cat
  - B. disagreement with a policy in her workplace
  - C. several experiences seeing how blind cats were treated
  - D. the sudden blindness of an animal at a shelter where she worked
- According to the speaker, why do animal shelters often 28. refuse to accept blind cats?
  - A. They have limited space.
  - B. They are concerned about costs.
  - C. They are afraid the cats will not be adopted.
  - D. They do not have the expertise to take care of them.
- 29. What service does the Blind Cat Sanctuary provide?
  - A. pet adoption
  - B. veterinary care
  - C. temporary sheltering
  - D. education for blind cat owners
- 30. Why does the speaker mention mice?
  - A. to emphasize the overall health of blind cats
  - B. to describe how cat diseases are often transmitted
  - C. to illustrate one of the benefits of owning a blind cat
  - D. to demonstrate how blind cats interact with one another
- What does the speaker say is often a cause of cat blindness? 31.
  - A. eye infections
  - B. genetic disorders
  - C. low blood pressure
  - D. respiratory illnesses
- What does the speaker mean when she says: 32.



- A. Cats need to be taken to the vet regularly.
- B. Blindness in cats often occurs at night.
- C. Vets will check the cat's other senses.
- D. Blindness in cats can often be prevented.

Now you will hear the third talk. Look at the questions.

#### Listen to an expert talking about work teams.

- 33. What aspect of work teams does the speaker mainly focus on?
  - A. team size
  - B. team goals
  - C. team leadership
  - D. team communication
- Why does the speaker mention teachers? 34.
  - A. to recount a personal experience with a project team
  - B. to emphasize why efficiently forming teams is important
  - C. to refute a common misconception about forming
  - D. to highlight a problem that often arises when forming teams
- 35. What does the speaker say a team needs to have in order to function well?
  - A. diverse range of abilities
  - B. an organized coordinator
  - C. commitment to the project
  - D. members who get along well
- 36. Which of the following risks would probably be associated with having too many team members on a project?
  - A. heightened stress levels
  - B. lack of direction and focus
  - C. difficulty organizing meetings
  - D. disagreements and arguments
- 37. What does the speaker say should be a consideration when forming teams?
  - A. geographical location of team members
  - B. ability of members to perform different roles
  - C. total amount of time required for the project
  - D. current work responsibilities of team members
- What does the speaker provide? 38.
  - A. steps for forming project teams
  - B. criteria for evaluating team members
  - C. principles for forming an efficient team
  - D. benchmarks for evaluating a project's success

#### Part 3

In this part, you will hear two segments from a radio program. After each segment, you will hear six questions about it. Before each segment begins, you will have time to preview the questions that are printed in the test booklet.

You will hear each segment twice. Then you will hear the questions once. If you want to, you may take notes in your booklet as you listen. Mark your answers on the separate answer sheet, not in the test booklet. You should mark A, B, or C.

Do you have any questions?

Look at the questions. Then, listen to the first segment.

#### 39. What information do the speakers provide about the Sahel?

- A. the length of its seasons
- B. the average temperature
- C. the average yearly rainfall

# 40. Why is the appearance of mosquitos in the Sahel every year a mystery?

- A. because it happens while all the surface water is dried up
- B. because it happens before new mosquitos can reach adulthood
- C. because it happens in a region where mosquitos do not usually reproduce

#### 41. Why does Louis Grey mention mosquito migration?

- A. to show how the winds affect the Sahel's climate
- B. to describe an earlier theory that had to be rejected
- C. to emphasize the importance of water to mosquitos' life cycle
- 42. What was Louis Grey's team able to prove about the Sahel's mosquitos?
  - A. that they could survive at high altitudes
  - B. that they could live past their normal lifespan
  - C. that they could return to the locations where they were born
- 43. What are scientists unable to understand about mosquitos during the dry season?
  - A. how they reproduce in the absence of water
  - B. how they return to the same locations every year
  - C. how they become inactive for so long without dehydrating

#### 44. What will most likely be the next step in Louis Grey's research?

- A. locating mosquitos during the dry season
- B. trying to prove that mosquitos are estivating
- A. waiting for mosquitos to reappear the following year

Look at the questions. Then, listen to the second segment.

- 45. What aspect of Steven Bloch's work does this conversation mainly focus on?
  - A. his recent projects
  - B. his design philosophy
  - C. his focus on sustainability
- 46. What does Steven Bloch say architects need to do?
  - A. make sure each building has a clear focal point
  - B. think beyond a project's functional requirements
  - C. match a building's design to its surrounding landscape
- 47. What is meant by the phrase "building meaning"?
  - A. establishing a symbolic importance
  - B. gradually developing a sense of purpose
  - C. designing around a building's central function
- What point does Steven Bloch make about environmental 48. sustainability?
  - A. Using local resources can limit a building's environmental impact.
  - B. Being forced to conserve resources can stimulate creative design.
  - C. Sustainable architecture can help change public values and attitudes.
- Why does Steven Bloch describe his project in China? 49.
  - A. to provide an example of sustainable design
  - B. to elaborate on the concept of "building meaning"
  - C. to expand upon the idea of an architect's central role
- 50. What is a unique design feature of Steven Bloch's project in China?
  - A. an indoor garden
  - B. a water recycling system
  - C. the use of bridge technology

Notes



End of the listening test

# READING: GRAMMAR

-	
_	ng to move try moving not to try moving
52. Despite its prevalence and serious effects, diabetes research has historically been underfunded A. inno other diseases. B. those A. for research compare to B. compared to research for C. comparing the research of D. in comparison with researching to 57. "Do you	many employers, there is a common bias unger workers tend to be are older. ovative more than who se who are innovating more re innovative than those who o are more than innovative that
53 staying up all night to finish a very important "I'm cert paper, Sandy slept all day and missed her class. A. soon A. For B. Once C. she'	our grades?" tain she'll do it" n she's able to oon as she's able to 's able to do it soon vever she's soon able to
54. Even the team's most ardent supporters must have been surprised by how successful last season's offered a campaign turned out  A. to be B. it was  58. In a fam psychologogened a psychologogened as a significant product and psychologogened as a significant product product and psychologogened as a significant product product product psychologogened as a significant p	ous study on greed and scarcity, ogists ran an experiment in which they a child two cookies,  mall and as large smaller and larger was small and large small and one large

# READING: GRAMMAR

59.	By comparing students' best and worst scores, the computer develops personalized simulations to keep at their optimal level.	63.	Only after accepting Kramer's challenge he had fallen into his opponent's trap.  A. realized Lipsky
	A. so they perform		B. Lipsky did realize
	B. them to perform		C. did Lipsky realize
	<ul><li>C. they will perform</li><li>D. them performing</li></ul>		D. was it Lipsky who realized
		64.	to compare the chlorine found in Bass Lake
60.	Edward Lorenz coined the phrase "Butterfly Effect"		with that present in various other saline waters.
	to refer to small occurrences can have		A. It may be interested
	enormous consequences.		B. It may be of interest
	A. the manner of		C. There may be interest of
	B. in which manner		D. There may be interesting
	C. what is a manner of		
	D. the manner in which	65.	During the Eocene epoch, 50 million years ago, most North American mammals were very
61.	The experiment was designed to compare		what we see today.
	to play a variety of instruments, given no prior		A. differed with
	musical knowledge.		B. difference to
	A. relatively difficult to learn		C. different from
	B. a relative learning difficulty		D. differently than
	C. being relatively difficult to learn		
	D. the relative difficulty of learning	66.	It is difficult to study human intelligence; what is considered "smart" is determined our genes
62.	The design by Adams consists of a cluster of		A. by that culture as
	buildings a central courtyard containing		B. by as much as culture
	apple trees and recreational spaces.		C. so much by culture than
	A. arranging from		D. as much by our culture as by
	B. arranged around		
	C. are arranged among		
	D. to arrange throughout		

# **READING: CLOZE**

76.

A. is

B. as

#### This passage is about sanitation.

Good sanitation practices are essential for all food-related operations. Buildings, plants, and other areas must be maintained in sanitary condition and in good (67). Equipment, such as utensils and surfaces that come (68) contact with food, must be cleaned in a (69) that protects against food contamination. Toxic cleaning compounds, sanitizing agents, and pesticide chemicals need to be identified, and stored (70) that safeguards food, surfaces, or food-packaging materials.

No pests are allowed in (71) area of a food plant. Effective measures should be taken to (72) pests from entering all processing areas and from coming into contact with any food. The use of insecticides is permitted only (73), in order to keep food processing areas and equipment from being contaminated.

In wet processing operations, all food-contact surfaces need to be cleaned and sanitized before use and after any activity (74) food-contact surfaces may have become contaminated. (75) equipment and utensils are in continuous operation, surfaces should be cleaned and sanitized (76) necessary. Keeping facilities clean ensures the delivery of safe food to consumers.

67.	A.	kind	C.	capacity
	B.	repair	D.	situation
68.	A.	into	C.	among
	B.	across	D.	through
69.	A.	display	C.	manner
	B.	quality	D.	program
70.	A.	so	C.	in a way
	B.	safely	D.	because
71.	A.	all	C.	either
	B.	any	D.	whatever
72.	A.	the	C.	exclude
	B.	ensure	D.	prevent
73.	А. В.	in any circumstances under certain conditions	C. D.	in no uncertain terms under consideration
74.	A.	as if	C.	in order
	B.	so that	D.	during which
75.	A.	For	C.	Where
	B.	Since	D.	Similarly

C.

D.

well

really

# **READING: CLOZE**

#### This passage is about indoor plants.

The term "indoor plant" can be used to define any plant not growing in its natural habitat. To understand why this definition is appropriate, consider the steps  $\frac{(77)}{}$  to protect less hardy plants by people living in temperate climates. In this  $\frac{(78)}{}$  of climate, the four seasons are  $\frac{(79)}{}$ : summers are hopefully warm, and winter temperatures often fall below freezing. A plant that (80) in tropical or subtropical regions cannot survive under frosty conditions. It must, therefore, be given  $\frac{(81)}{}$  during the cold months. (82) some people are fortunate enough to have heated greenhouses, for the majority of people, that means taking the plant indoors.

On the other hand, many people live in regions of the world where the temperatures never fall below freezing. But what about excessive heat? In  $\frac{(83)}{}$  regions, the outside temperature may become so hot that people need fans and air conditioning systems for comfort. If a plant is (84) to a temperate climate, with four seasons, it will have trouble thriving in a hot environment. (85), it is necessary to try and duplicate the plant's normal growing environment. Again, (86) taking the plant indoors.

77.	А.	to need	C.	needing
	В.	needed	D.	needed by
78.	A. B.	sort time	C. D.	
79.	A. B.	several express	C. D.	
80.	A.	stems	C.	originates
	B.	creates	D.	introduces
81.	A.	up	C.	protection
	B.	shield	D.	preservation
82.	A. B.	Yet Despite	C. D.	
83.	A.	all	C.	these
	B.	the	D.	which
84.	A.	agreed	C.	acquainted
	B.	apprised	D.	accustomed
85.	A.	Otherwise	C.	In such cases
	B.	Nevertheless	D.	In all likelihood
86.	А. В.	it may sometimes need this often means	C. D.	without having to in correspondence with

# READING: VOCABULARY

87.	The new policy will tough penalties on people who are found to be using university	91.	To with the museum's fifth anniversary, the six statues went on full display in June, gleaming from their modern makeover.
	property for personal business.  A. incite  B. impose		A. concur B. contract
	C. confer D. prosecute		C. coincide D. converge
88.	, the same students who participate in the winter program should continue to work on the project in spring, to ensure continuity.  A. Ideally B. Promptly C. Afterwards D. beforehand	92.	After a second student became ill, officials agreed to investigate the cafeteria's quality issues in with an independent auditor.  A. reference B. accordance C. conjunction D. consequence
89.	A hypothesis is a proposed explanation for a phenomenon or problem, often on prior knowledge and logical deduction.  A. based B. settled C. worked D. related	93.	The Patels' missing puppy finally at their door the day after they put posters all over the neighborhood.  A. let in B. ran away C. turned up D. showed off
90.	In early August, the Oceanic Administration updated its Atlantic hurricane, predicting a season with an above-average number of tropical storms.  A. chance B. outlook C. direction D. viewpoint	94.	All from the auction will go toward WHQR to help support their music and local news programming.  A. portions B. products C. proceeds D. premiums

# READING:VOCABULARY

95.	Florida's heat waves, with temperatures over 100°F, have put both young and old at of heat-related illnesses.  A. risk B. crisis C. danger D. prospect	99.	Historically, the city's residents lived and shopped near their workplaces, which explains why each neighborhood has its own distinctive  A. aspect B. complex C. character D. aspiration
96.	Student Affairs Office representatives are required to respond to complaints and try to any problems students may have.  A. recede B. resolve C. restrict D. reinforce	100.	When describing your product, try to provide detailed information about its features and avoid anything or exaggerated.  A. ambient B. amicable C. amusable D. ambiguous
97.	"I'm getting frustrated that I haven't even been called in for an interview."  " I'm sure you'll find a job soon."  A. Bring it up  B. Figure it out  C. Hang in there  D. Have a go at it	101.	Dr. Lee's work is often cited by opposite sides in the fierce national over free-market competition in public schools.  A. culture B. debate C. education D. contention
98.	In the past 36 years, George Metz reckons that he has run more than 20,000 miles – to take him halfway around the world.  A. ample B. enough C. plentiful D. complete	102.	The expanding economy created new freedom for young people, who began to leave their families and live on their own.  A. distinctly B. summarily C. increasingly D. consecutively

# **READING**

#### This passage is about a form of energy.

Wind turbines take the energy of the wind and convert it to electrical power. The idea of harnessing the wind's power has existed for thousands of years in the form of windmills and water pumps, but modern engineers have extended this concept to a wide range of applications, from small devices that power traffic lights, to multi-acre wind farms that power entire cities.

The largest wind turbines in use today rise to about 400 feet in height. They require huge towers with deep foundations, are expensive to build, and are vulnerable to weather-based interruptions. For at least a century, engineers have dreamed of pulling electricity from high in the atmosphere, where the winds provide as much as four times the power of ground-level flows. However, only recently have lightweight materials and computer guidance systems emerged that make the idea feasible.

While no single design has emerged as a frontrunner, the most efficient airborne turbines swoop through the air like a kite at altitudes of 800 to 2000 feet. Known as crosswind models, these models are equipped with rotors that act as both turbines and propellers and are tethered to the ground using a long cable. Direct-drive generators send electricity down the tether to a ground station. Given the higher wind speeds at altitude, crosswind turbines can deliver twice the energy per unit of capacity than conventional turbines, and with no tower, they use 90% less material, reducing costs.

For all their advantages, however, the questions surrounding airborne wind power generation are significant. How do you safely suspend airborne turbines hundreds or thousands of feet off the ground? How do you avoid interference with aviation? How do you keep them aloft for long periods of time without having to perform maintenance? Enthusiasts for the technology believe all these issues are not only surmountable, they are worth overcoming, because when it comes to wind's potential for providing consistent, inexpensive, and renewable energy, the sky is literally the limit.

- 103. What is the main purpose of the first paragraph?
  - A. to compare wind power to other technologies
  - B. to place modern turbines in a historical context
  - C. to describe the problem wind turbines are designed to solve
  - D. to present the range of tasks airborne turbines are capable of performing
- 104. What is said to be a benefit of airborne vs ground-level turbines?
  - A. faster power generation
  - B. more reliable access to energy
  - C. increased power storage capacity
  - D. less vulnerability to electrical interference
- 105. What is implied about crosswind models?
  - A. They travel higher into the atmosphere than other airborne turbines.
  - B. They are the airborne turbine design most likely to be mass-produced.
  - C. They generate electricity with the least waste of materials and effort.
  - D. They need to be used in conjunction with ground-based wind turbines.
- 106. What function does the tether play in crosswind turbines?
  - A. It stores energy.
  - B. It generates power.
  - C. It enables navigation.
  - D. It transmits electricity.
- 107. What is said to be a challenge for modern turbines?
  - A. servicing equipment at high altitudes
  - B. producing them at an inexpensive price
  - C. avoiding interference from flying animals
  - D. generating sufficient energy to power big cities
- 108. In the final sentence of the last paragraph, what does the author mean by **surmountable**?
  - A. debatable
  - B. vulnerable
  - C. unavoidable
  - D. conquerable

# **READING**

#### This passage is about a study involving dogs.

Behavioral evidence has long suggested that dogs can recognize human emotions. A new study now helps us understand why. The research shows that dogs, like humans, have a dedicated region in their brains that processes emotional information.

Researchers in the 1990s first identified a part of the human brain that processes the non-linguistic aspects of human voices. That is, this region does not decode words and sentences; rather, it registers the emotional tone of the sounds, such as whether a speaker is happy, angry, or afraid. Later, macaque monkeys were found to have a similar region of the brain. The new experiment was designed to see if this brain region could be found in an animal that is not a primate.

Scientists used the same technology that had been used with humans and macagues, scanning the brain with an MRI scanner that measures brain activity and records which areas are active. The researchers tested 11 dogs and compared their brains to those of 22 human volunteers. They put headphones on each participant and let them listen to three types of sounds: human voices, dog vocalizations, and "environmental noises" (cars, ringing phones).

The team discovered that dogs and humans process "emotional sounds" similarly. When the researchers played human sounds, such as laughter, an area near the dogs' primary auditory cortex lit up - exactly the same as in humans. Similarly, emotionally charged dog sounds, such as growling, lit up the same brain region in both groups. Predictably, both groups responded most strongly to sounds made by their own species. One surprise, however, was that one region of the brain the frontmost portion of the temporal lobe — became strongly activated when both dogs and people heard human voices. This result suggests that dogs' minds are keenly attuned to human emotions.

This may help explain the long and special relationship between the two species. Humans domesticated dogs over 30,000 years ago, and dogs have long been considered "man's best friend." The recent study suggests that the parallel brain sensitivity to voices and emotions may partially account for our unique bond.

- 109. What is a significant finding of the new study?
  - A. definitive proof that dogs are capable of experiencing emotions
  - B. evidence of an emotional processing center in a non-primate brain
  - C. discovery of a part of the brain that processes voices non-linguistically
  - D. confirmation of an evolutionary connection between humans and dogs
- 110. What can be inferred about the emotional processing center of the human brain?
  - A. It is able to convert words into emotions.
  - B. It does not respond to offensive language.
  - C. It is located in the frontmost portion of the temporal lobe.
  - D. It responds differently depending on one's relationship to the speaker.
- 111. What is mentioned as a feature of the new study?
  - A. Sounds were presented in groups of three.
  - B. Twice as many dog subjects as humans were used.
  - C. It was a continuation of research conducted in the 1990s.
  - D. Innovative use of brain scanning technology was involved.
- 112. What result of the new study does the author suggest could have been anticipated?
  - A. The strong activation of dogs' brains in response to human voices.
  - B. The lack of response by humans to emotionally charged dog vocalizations.
  - C. The identification of an area in dogs' brains that processes emotional sounds.
  - D. The responsiveness of both groups to sounds made by their own species.
- 113. What does the word **this** in the first sentence of the last paragraph refer to?
  - A. hearing human voices
  - B. human domestication of dogs
  - C. attunement to human emotions
  - D. relationship between the two species
- 114. What does the author imply in the final paragraph?
  - A. Dogs' brains have physically evolved.
  - B. Domestication of dogs increased dogs' sensitivity.
  - C. Dogs and humans have similar brain sensitivity.
  - D. Dogs only recently developed sensitivity to human emotions.

# **READING**

#### This passage is about an astronomical event.

Astronomers say four giant galaxies are crashing into each other, in one of the biggest interstellar pileups ever recorded. The galaxies will eventually merge together into a single galaxy 10 times larger than our own Milky Way. Scientists say the event provides an extraordinary opportunity to study how galaxies form.

Galactic mergers are not uncommon in the universe. Mergers between one large galaxy and several smaller ones – called minor mergers – are well documented. Mergers between two galaxies of similar size have also been observed. A merger between multiple large galaxies, however, is unprecedented and when it is completed, the resulting galaxy will be one of the biggest in the universe.

The event was first spotted when scientists at the Müller Observatory observed an unusually bright plume of light emanating from four elliptical galaxies approximately five billion light years from Earth. Analysis of the plume revealed it was comprised of billions of stars being hurled out from the ongoing clash. Subsequent observations through an X-Ray telescope were used to calculate the mass of the clashing galaxies, which revealed they were among the largest in that sector of the universe.

All the stars studied so far from the merger appear to be over 10 billion years old – relatively old by galactic standards. Until recently, this would have contradicted a major theory of galactic formation: the hierarchical model. Under this model, smaller galaxies undergo successive mergers to form larger ones, creating stars as they go. By this theory, larger galaxies such as the four currently merging should contain much younger stars.

In the current merger, however, it appears no new stars are being formed. The explanation may lie in the concept of gas-rich vs gas-poor mergers. In gas-rich mergers, the galaxies are soaked with gas that ignites to form new stars. In gas-poor mergers, no new stars are formed. Indeed, the Müller observations demonstrate that gas is a missing component in the current quadruple merger, perhaps explaining why only old stars have been found.

- 115. What can be inferred about the phenomenon described in this article?
  - A. It confirmed an earlier scientific theory.
  - B. It took multiple observations to be confirmed.
  - C. It was mistaken at first for a different phenomenon.
  - D. It required the cooperation of several observatories.
- 116. What is unusual about the astronomical event that is underway?
  - A. the number of galaxies that are merging
  - B. the amount of gas in the merging galaxies
  - C. the large dimensions of the merging galaxies
  - D. the similarity in size between the merging galaxies
- 117. Why are minor mergers mentioned?
  - A. to emphasize the uniqueness of the current event
  - B. to provide background on how galaxies are formed
  - C. to give a sense of the mass of the astronomical event
  - D. to provide a sense of the size of the galaxy being formed
- 118. What specific information does the article provide about the galaxies involved in the current merger?
  - A. their shape
  - B. their total mass
  - C. their speed of travel
  - D. their distance from each other
- 119. What is the relevance of the galaxies' age?
  - A. It explains why the merger is occurring.
  - B. It illustrates how young stars are formed.
  - C. It clarifies the role of gas in galactic mergers.
  - D. It supports a new theory of galactic creation.
- 120. What is implied about the role of gas in galactic mergers?
  - A. The size of the galaxies indicates the presence of gas.
  - B. The presence of gas equates to the size of the merger.
  - C. The lack of gas correlates to the absence of young stars.
  - D. The presence of young stars indicates a possible lack of gas.

# **TEST 1 VOCABULARY REVIEW**

#### COLLOCATIONS

1	Match the words in list A with those in list B to make common collocations. Then, use these collocations to
	complete the sentences.

		ipiete tile sei	itelites.				
		List A	Answer		List B		
	0	enclose	C	a	an order		
	1	undergo		b	the power of		
	2	process		c	a letter		
	3	surmount		d	a riot		
	4	harness		е	information		
	5	incite		f	an operation		
	6	place		g	a problem		
	7	generate		h	nerves		
	8	stimulate		i	electricity		
	0	Just	enclose a lette	r	about yourself in th	e prepaid envelope and	mail it to us.
	1	Engineers are	e developing r	ew tecl	nnology that will		deep ocean currents in order
		to produce e					
	2	Doctors advi	sed the player	to		on his injured leg	g.
	3	So as not to			among de	monstrators, the job-cut	announcement was deferred.
	4	Giant wind to	urbines are use	ed to		without the ne	ed to use fossil fuels.
	5	To			successfully, one mι	st consider what caused	d it in the first place.
	6	Although the	ese lizards do r	not have	e ears, sound vibrati	ons in the air	in their skin.
7 There weren't any wireless keyboards in stock so I had to online for a new							
	8	The human b	orain cannot $\_$			$\_$ that is flashed on a sc	reen for less than 0.1 seconds.
_	_						
2	Rep	lace the wor	ds in italics wi	th mor	e suitable verbs fro	m the box.	
• postponed • gained • transmitted • lit up • restricted					ricted		
			• tether	ed • re	ckoned • affected	<ul><li>settled • imposed •</li></ul>	performed
	0	Knowledge	isn't earned at	school	by students, it is	gained	- <b>.</b>
	1						
	2	A region of	the brain isn't	ignited	when stimulated, it	is	
	3	A <b>horse</b> isn't	restrained to a	post b	the reins, it is		
	4	An <b>argumen</b>	<b>t</b> isn't <i>closed</i> w	hen a s	olution is reached, i	t is	·
	<ul> <li>Maintenance is not prepared on an old bridge, it is</li> <li>A mathematical equation isn't calculated when new data has to be included, it is</li> <li>The flow of a river isn't bound by a dam, it is</li> </ul>						-•
							it is
	8	A <b>penalty</b> is	not prosecuted	on a se	occer player with qu	estionable conduct, it is	i
	9	An appointr	<b>nent</b> isn't <i>prol</i> o	onged if	someone doesn't to	ırn up, it is	
	10	<b>Electricity</b> is	not powered o	down a	cable from a power	plant, it is	
/ER	BS						

#### **VERB**

3 Choose the correct verb from the list below to complete each sentence.

```
agreed • tethered • concurred • attuned • conferred • settled
                          · coincided · equipped · emanated · imposed
                            to meet after class.
1 The friends eventually ___
2 It took a while but they finally ______ on a solution to their problem.
3 The movie's release _____ with the 500th anniversary of the battle it depicts.
```

4	The authorities haveto	ougher speeding restrictions on motorists.
5	The strange red lightf	rom somewhere on the other side of the hill.
6	The computer gaming industry is successful becau	se it is to the demands of gamers.
7	Her ideas with mine.	
8	Until his rescue, the poor dog had been	to the same tree for years.
9	According to the rights	$_{ m -}$ on him by the constitution, the President can quash a
	criminal conviction.	
ın	None of the recipients knew that the parcel was	with a hidden camera

#### **NOUN PHRASES**

4 Use the nouns in the box to complete the sentences, paying attention to meaning and structure. Clues are in bold.

	<ul> <li>standards • response • conjunction • merger • sensitivity</li> <li>range • risk • reference • debate • bond • clash</li> </ul>					
0	He sent her an e-mail <b>in <u>response</u> to</b> the invitation.					
1	In his speech, the President madeto the growing number of cyber attacks.					
2	They worked in with their teammates to finish the project.					
3	Mary's deepto the emotional needs of her students was what made her such a					
	successful teacher.					
4	By riding without a helmet, you put yourself <b>at of</b> serious injury.					
5	Abetween the companies would be beneficial in terms of shared production costs.					
6	There is a specialbetween teammates who have played basketball together for so many					
	years.					
7	Theover introducing higher fees for university students raged in the press.					
8	The violent between supporters of rival teams resulted in a number of injuries.					
9	The grade average at this school is high, <b>by</b> national					
10	The new e-watch has a wide of applications, including being used to monitor heart rate.					

5 Circle the correct noun, based on the definitions given.

1 grey matter which is responsible for higher mental functions: cortex / duplicate / plume 2 an investigation in order to find information and/or the facts: prospect / research / discovery 3 a machine for forcing air or water along pipes: pump / rotor / flow 4 a person's perspective or how someone sees or understands things: viewpoint / consequence / vocalization 5 an object that rises high and swoops through the air: tower / kite / cable 6 the properties and qualities of something, making it distinct: origin / character / region 7 a machine that rotates very fast, to generate electricity: turbine / scanner / energy 8 money collected by an event, such as a charity or an auction: process / proceeds / portions

#### **ADJECTIVES**

6 Choose the correct adjective from the box to complete each sentence.

7	A(n)	$\_$ way of doing something is not new or radical in any way.
8	A(n)	_ figure is as close as possible to the exact figure
9	A(n)	_ animal is one which has been house-trained.
10	When a plan or an idea is	, it means that it is possible to put it into practice.

#### 7 Circle the correct answer to complete the text.

The three-color traffic light system is (1) acquainted / familiar / accustomed to just about everyone, drivers and nondrivers alike. Each of the three colors (2) corresponds / parallels / applies to intuitive associations. Red, instinctively associated with danger, means 'stop', in no uncertain (3) terms / components / portrayals. Green, the most soothing color in the spectrum, means 'OK to go'. In the middle (4) lies / suspends / turns amber, a complex non-primary color, with no immediate connotations. Given the ambiguity of amber, a logical (5) deduction / summary / likelihood is that this color means neither 'stop' nor 'go', but rather: 'get ready to do one of the two'.

The traffic light is designed to interrupt traffic (6) proceeds / capacities / flows as they (7) converge / impose / emerge from different directions. Without traffic lights positioned at large junctions, multiple vehicles would (8) merge / crash / hurl into each other, and (9) pileups / postponements / portions would be inevitable.

Nevertheless, many drivers still (10) concur / consider / cite traffic lights to be a nuisance. As soon as green changes to amber, many (11) promptly / ideally / distinctively step on the gas, in order to avoid having to wait when the light switches to red. Such selfish driving behavior is not only reckless but also futile, as drivers who think themselves smart enough to cheat one red light will no doubt get caught behind the next one, a few hundred meters further down the street. Since all traffic lights on the same street work in (12) conjunction / contradiction / contamination with each other, drivers may beat one, but they won't beat them all.

8	What about	you? Discuss 🤉	your answers t	o this questi	onnaire with	your teacher.
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1	Did you work in with any other students to complete these exercises?					
	<b>a</b> contention	<b>b</b> consequence	<b>c</b> collocation	<b>d</b> conjunction		
2	,	ou going to have your answers by someone?				
	<b>a</b> qualified	<b>b</b> verified	<b>c</b> surmounted	<b>d</b> settled		
3 Were you able to the meaning of a word by looking at how it was used in the						
	<b>a</b> function	<b>b</b> address	<b>c</b> interpret	<b>d</b> sound		
4	Do you expect to have a(n) over any of your answers with anyone?					
	<b>a</b> interpretation	<b>b</b> classification	<b>c</b> inspiration	<b>d</b> debate		
5	Would you like to be able to use vocabulary like a speaker?					
	<b>a</b> vigilant	<b>b</b> native	<b>c</b> sensitive	<b>d</b> wary		
6	Has this review helped you knowledge and increase your level of vocabulary expertise?					
	<b>a</b> incite	<b>b</b> allocate	<b>c</b> gain	<b>d</b> prolong		