

DIGITAL

SAT

TRIAL

EXAM

Reading and Writing

54 QUESTIONS

DIRECTIONS

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

1- According to statistician Nassim Nicholas Taleb, the best way to predict the amount of time a nonperishable entity (such as a building or a technology) will continue to exist is to examine how long it has survived so far. In this view, an item's age is the strongest _____ how much longer it will last.

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

- A) uncertainty about
- B) motivation for
- C) indicator of
- D) criticism of

2- The Iguazu Falls, which lie on the border between Argentina and Brazil, are a popular and _____ tourist destination. The waterfalls have been visited by people from all over the world for over a century, and they are often cited as one of the most impressive natural wonders on Earth.

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

- A) fleeting
- B) revered
- C) obscure
- D) precarious

3- The Appalachian Trail is a hiking path in the eastern United States. Much of the 2,000 mile trail passes through wilderness areas. In order to _____ those areas, the United States Congress passed the National Trails System Act in 1968, ensuring that the trail would not be sold or commercially developed.

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

- A) protect
- B) borrow
- C) postpone
- D) decorate

4- Microplastics are pieces of plastic that are smaller than a grain of rice. These small plastics can be found in large quantities in ocean waters. Ecologist Jessica Reichert and her team are studying the role reef-building corals have in capturing microplastics from ocean waters. Through research, her team has found that these corals may be storing up to 20 million kilograms of microplastics each year in their skeletons and tissues.

Which choice best states the main idea of the text?

- A) Ecologists are interested in learning more about how certain corals build large reefs.
- B) Microplastics are small pieces of plastic that can be found in ocean waters.
- C) Questions remain around the impact certain corals have on ocean ecosystems.
- D) Ecologists predict that corals store large amounts of microplastics from ocean waters.

5- The following text is from William Wordsworth's 1807 poem "I Wandered Lonely as a Cloud."

I wandered lonely as a cloud
That floats on high o'er vales and hills,
When all at once I saw a crowd,
A host, of golden daffodils;
Beside the lake, beneath the trees,
Fluttering and dancing in the breeze.
Continuous as the stars that shine
And twinkle on the milky way,
They stretched in never-ending line
Along the margin of a bay.

Based on the text, in what way are the daffodils that the speaker encounters similar to stars in the Milky Way?

- A) They appear to twinkle in the light.
- B) They can be seen during the night and day.
- C) They flutter and dance in the breeze.
- D) They seem to go on forever.

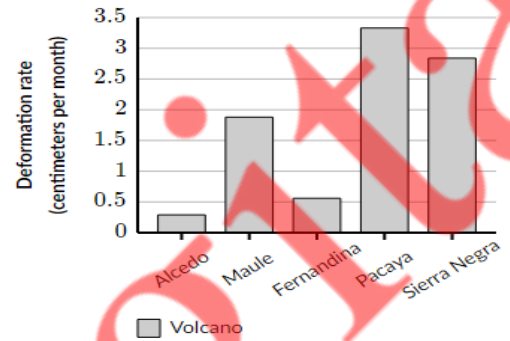
6- Roasted green chiles are a popular ingredient in Southwestern cuisine, but the traditional roasting method of burning propane is not environmentally friendly. To see if solar power could provide a better alternative, engineer Kenneth Armijo and his team roasted batches of green chiles using between 38 and 42 heliostats, which are devices that concentrate sunlight. The team was successful in reaching the same roasting temperature used in traditional propane roasting, but they found that propane yielded faster results. While the fastest solar-roasted green chiles took six minutes, batches using propane took only four. Armijo hypothesizes that they can reduce the roasting time for solar-roasted green chiles by using more heliostats.

Which finding, if true, would most directly support Armijo's hypothesis?

- A) Attempts to roast green chiles using 50 heliostats yields results in fewer than six minutes.
- B) Green chile connoisseurs prefer the flavor of solar-roasted green chiles over the flavor of propane roasted green chiles.
- C) The skins of solar-roasted green chiles are easier to peel than the skins of propane-roasted green chiles.
- D) The temperature inside the roasting drum is distributed more evenly when roasting green chiles with solar power than with propane.

7-

Deformation Rate of Five Volcanoes



When magma moves underneath a volcano, it causes the surface of the volcano to change. This is known as deformation. Researchers recently calculated the amount of deformation occurring each month for five volcanoes in Latin America. Although Sierra Negra experienced a lot of deformation, its deformation rate was still lower than that of _____

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

- A) Pacaya.
- B) Fernandina.
- C) Alcedo.
- D) Maule

8-

Global Greenhouse Gas Emissions by Economic sector (based on global emissions from 2010)

Economic Sector	Industry	Transportation	Buildings	Agriculture, Forestry, and Other Land Use	Electricity and Heat Production	Other Energy Production
Percentage of global greenhouse emissions	21%	14%	6%	24%	25%	10%

Greenhouse gas emissions can be analyzed by the economic activities that produce them. In 2014, The United Nations Intergovernmental Panel on Climate Change (IPCC) completed its fifth report, which included a breakdown of global emissions by economic sector, using global emissions data from 2010. Based on the data, the authors claim that electricity and heat production, which entails the burning of coal, natural gas, and oil, is the largest source of greenhouse gas emissions.

Which choice best describes data from the table that supports the researchers' claim?

- A) In 2010, electricity and heat production was responsible for almost 25% of global greenhouse gas emissions, the most of any sector.
- B) In 2010, industry was responsible for just over 20% of global greenhouse gas emissions.
- C) In 2010, transportation generated significantly more greenhouse gas emissions than buildings did.
- D) In 2010, the production of energy other than electricity and heat generated around 10% of global greenhouse gas emissions.

9- In her 1921 poem "Spring," Edna St. Vincent Millay subverts conventional depictions of springtime. Instead of celebrating growth and renewal, Millay disputes the merit of the season entirely: _____

Which quotation from "Spring" most effectively illustrates the claim?

- A) "To what purpose, April, do you return again? / Beauty is not enough."
- B) The sun is hot on my neck as I observe / The spikes of the crocus.
- C) The smell of the earth is good. / It is apparent that there is no death.
- D) Life in itself / Is nothing, / An empty cup, a flight of uncarpeted stairs.

10- Scent is tightly interwoven with our daily lives, often evoking significant memories and important social events. This connection is of growing interest to archaeologists who hope to use it to better understand ancient rituals, trade, social hierarchies, and medicine. Although the speed at which odor molecules dissipate makes identifying ancient scents challenging, advancements in biomolecular technologies show promise in unlocking ancient aromas from preserved artifacts. Archaeological studies making use of these advancements may provide new insights into past societies.

According to the text, what is one reason some archaeologists are interested in recovering scents from ancient artifacts?

- A) They are investigating whether people's sense of smell has declined in recent centuries.
- B) They believe the scents could illuminate important aspects of ancient life.
- C) They hope to develop new medicines using ancient scent molecules.
- D) They think that ancient scents would be enjoyable to people today.

11- Microbes that live in shallow lakes and ponds produce methane, a harmful greenhouse gas. Ecologist Ralf Aben and his team wanted to see how different types of shallow-water plants might affect the amount of methane that escapes into the atmosphere. Aben's team set up some water tanks with soil and microbes from local ponds. Some tanks had a type of underwater plant that grows in the soil called watermilfoil. Other tanks had either duckweed, a type of plant that floats on the water's surface, or algae. Aben and his team found that tanks with duckweed and algae released higher levels of methane than tanks with watermilfoil did. This finding suggests that _____

Which choice most logically completes the text?

- A) shallow lakes and ponds are more likely to contain algae than to contain either watermilfoil or duckweed.
- B) shallow lakes and ponds release more methane than deeper bodies of water because shallow bodies of water usually have more plants than deep bodies of water do.
- C) the presence of some kinds of underwater plants like watermilfoil helps prevent methane from escaping shallow lakes and ponds.
- D) having a mix of algae, underwater plants, and floating plants is the best way to reduce the amount of methane in shallow lakes and ponds.

12- The following text is excerpted from *The Red Badge of Courage*, an 1895 novel by Stephen Crane. In the text, a young Civil War soldier named Henry reflects in the aftermath of fighting a battle.

The procession of weary soldiers became a bedraggled train, despondent and muttering, marching with churning effort in a trough of liquid brown mud under a low, wretched sky. Yet the youth smiled, for he saw that the world was a world for him, though many discovered it to be made of curses and walking sticks. He had rid himself of the red sickness of battle. The sultry nightmare was in the past. He had been an animal blistered and sweating in the heat and pain of war. He turned now with great thirst to images of tranquil skies, fresh meadows, cool brooks—an existence of soft and eternal peace.

Which choice best describes the function of the underlined sentence in the text as a whole?

- A) It contrasts Henry's emotional state with that of the other soldiers.
- B) It highlights the physical and emotional toll that the war has taken on the soldiers.
- C) It presents a shift in Henry's perception of the natural world.
- D) It emphasizes Henry's sense of exhaustion in the aftermath of the battle.

13- Many people are familiar with the literary works of J.R.R. Tolkien, such as *The Lord of the Rings* and *The Hobbit*. Tolkien was known for creating rich, intricate fantasy worlds in his novels, which often featured themes of heroism and courage. Fewer people, however, are aware that Tolkien was a professor of Anglo-Saxon and Medieval English at Oxford University, and that he incorporated elements of those languages and historical periods into his works. Thus, those who read Tolkien's novels without this knowledge _____

Which choice most logically completes the text?

- A) may not appreciate the extent to which his writing reflects the political climate of his time.
- B) may not recognize the influence that his academic background had on his literary works.
- C) may mistakenly believe that his literary works are grounded in historical fact.
- D) may underestimate the impact that the works of other fantasy authors had on his writing.

14- Arthur Conan Doyle's stories about detective Sherlock Holmes were published between 1887 and 1927. They have inspired countless successful adaptations, including comic strips, movies, and a television series *Sherlock Hound*, directed by Hayao Miyazaki, who is celebrated for his animated movies. Until 2014, these stories were copyrighted. The right to adapt was only available to those who could afford the copyright fee and gain approval from the strict copyright holders of Doyle's estate. Some journalists predict that the number of Sherlock Holmes adaptations is likely to increase since the end of copyright means that _____

Which choice most logically completes the text?

- A) producing adaptations will become easier and less expensive.
- B) people will become more interested in detective stories than they were in the 1800s.
- C) the former copyright holders of Doyle's estate will return fees they collected.
- D) Doyle's original stories will become hard to find.

15-

Text 1

Most scientists agree that the moon was likely formed after a collision between Earth and a large planet named Theia. This collision likely created a huge debris field, made up of material from both Earth and Theia. Based on models of this event, scientists believe that the moon was formed from this debris over the course of thousands of years.

Text 2

Researchers from NASA's Ames Research Center used a computer to model how the moon could have formed. Although simulations of the moon's formation have been done in the past, the team from NASA ran simulations that were much more detailed. They found that the formation of the moon was likely not a slow process that took many years. Instead, it's probable that the moon's formation happened immediately after impact, taking just a few hours.

Which choice best describes a difference in how the author of Text 1 and the author of Text 2 view the evidence for the formation of the moon?

A) The author of Text 1 believes that the moon formed more slowly than the author of Text 2 believes.

B) The author of Text 1 suggests there is more evidence confirming the existence of Theia than the author of Text 2 suggests.

C) The author of Text 1 claims that the moon's surface is more similar to Earth's surface than the author of Text 2 claims.

D) The author of Text 1 argues that the formation of the moon occurred much earlier than the author of Text 2 argues.

16- Earth is not a perfect circle. Due to the _____ gravitational pull, Earth bulges out on the sides closest to and farthest from the Moon. This distorting pull is known as a tidal force, and it is responsible for the changes in water levels that are called high and low tides.

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

A) Moons'

B) Moons

C) Moon's

D) Moon

17- The Japanese lacquer tree, which is native to East Asia, has shiny leaves and yellow flowers. It _____ a resin that is used to create a durable and shiny finish on various objects such as furniture, decorative pieces, and even musical instruments. The resin is highly valued for its ability to resist water, heat, and acidic substances.

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

A) produced

B) will produce

C) produces

D) is producing

18- After the printing press was introduced in 1440, handwritten manuscripts from Europe's medieval period were often destroyed and the paper used for other purposes. In one instance, pages _____ a collection of Norse tales dating to 1270 were discovered lining a bishop's miter (hat).

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

- A) from
- B) from,
- C) from:
- D) from—

19- When particles are suspended in liquid (like pollen in a water glass), they will zigzag randomly through the liquid and collide with one another in perpetuity. This type of random, continuous _____ is known as Brownian motion, can be observed throughout the natural world.

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

- A) movement: which
- B) movement which
- C) movement, which
- D) movement. Which

20- In the novel *Things Fall Apart* by Chinua Achebe, Okonkwo is a leader of Umuofia (a fictional Nigerian clan) and takes pride in his culture's traditions. However, when the arrival of European missionaries brings changes to Umuofia, the novel asks a central question: How _____

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

- A) will Umuofia's traditions be affected?
- B) Umuofia's traditions will be affected?
- C) Umuofia's traditions will be affected.
- D) will Umuofia's traditions be affected.

21- In 2000, Nora de Hoyos Comstock, herself an owner of a successful consulting firm, sought to increase Latina representation in corporate _____ founded Las Comadres para las Americas, an international community that for over two decades has served as a resource and information network for Latina business professionals.

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

- A) settings she
- B) settings. She
- C) settings, she
- D) settings and she

22- Soursop is a popular fruit in Brazil, where it is eaten fresh or used in drinks and desserts. The fruit is high in antioxidants and vitamin C, which are known to have a variety of health benefits. _____ soursop is often recommended by doctors in Brazil to patients concerned about their health.

Which choice completes the text with the most logical transition?

- A) Thus,
- B) Instead,
- C) Furthermore,
- D) For instance,

23- Researchers believe that pieces of hull found off Oregon's coast are from a Spanish cargo ship that was lost in 1697. Stories passed down among the area's Confederated Tribes of Siletz Indians support this belief. _____ Siletz stories describe how blocks of beeswax, an item the ship had been carrying, began washing ashore after the ship was lost.

Which choice completes the text with the most logical transition?

- A) For this reason,
- B) For example,
- C) However,
- D) Likewise,

24- In the 1850s, William Still was instrumental in helping nearly 1,000 people escape from slavery, earning him the moniker "the Father of the Underground Railroad." _____ despite the fame of his contributions during his lifetime, Still is discussed far less today than other prominent Black abolitionists from his era, such as Frederick Douglass and Harriet Tubman.

Which choice completes the text with the most logical transition?

- A) Similarly,
- B) Specifically,
- C) For example.
- D) However,

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

- The Azores is a group of islands about 870 miles off the coast of Portugal.
- Historians have long believed that in the fifteenth century Portuguese mariners were the first humans to populate the Azores.
- A 2015 study coauthored by Sofia Gabriel and Maria da Luz Mathias found that Vikings from Scandinavia may have populated the Azores as early as the ninth century.
- The researchers found a genetic connection between house mice in the Azores and house mice in Scandinavia.
- House mice may have traveled from Scandinavia to the Azores on Viking ships.

The student wants to specify who may have first populated the Azores, according to the 2015 study. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A) In their 2015 study, the researchers found a genetic connection between house mice in the Azores and those in Scandinavia.
- B) Historians have long believed that the first humans to populate the Azores, a group of islands about 870 miles off the coast of Portugal, arrived in the fifteenth century.
- C) According to a 2015 study, the first humans to populate the Azores may have been Vikings from Scandinavia, not mariners from Portugal as previously believed.
- D) Portuguese mariners may not have been the first humans to populate the Azores.

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

- Biryani is a mixed rice dish popular in South Asia.
- Malabar biryani is a regional variation from the Malabar region in India.
- Malabar biryani is known for its use of short-grain rice, as well as the inclusion of green chile paste.
- Hyderabad biryani is another regional variation from the city of Hyderabad in India.
- Hyderabad biryani is known for its use of long-grain rice and spices like cardamom, cinnamon, and cloves.

The student wants to emphasize the differences between Malabar and Hyderabad biryani. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A) Both Malabar and Hyderabad biryani are regional variations of a mixed rice dish.
- B) Malabar biryani, a mixed rice dish from the Malabar region in India, is known for its use of green chile paste and short-grained rice.
- C) Different types of biryani may use either short-grain rice or long-grain rice.
- D) While Malabar biryani is known for its use of short grain-rice and green chili paste, Hyderabad biryani uses long-grain rice and spices like cardamom, cinnamon, and cloves.

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

- Archaeologist Dr. Sada Mire founded the Horn Heritage Foundation to preserve the cultural history of regions in the Horn of Africa.
- Horn Heritage has overseen a preservation project to create 3D digital scans of ancient rock art in Somaliland.
- Paintings found at the Laas Geel caves are included in the scans.
- The Laas Geel paintings feature human figures and animals.
- Paintings found at the Dhagah Nabi Galay caves are included in the scans.
- The Dhagah Nabi Galay caves feature what are thought to be the earliest examples of writing in East Africa.

The student wants to emphasize a similarity between the Laas Geel paintings and the Dhagah Nabi Galay paintings. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A) The Laas Geel paintings and the Dhagah Nabi Galay paintings are both examples of ancient rock art found in Somaliland.
- B) The paintings at the Dhagah Nabi Galay caves feature examples of writing, while those at the Laas Geel caves feature humans and animals.
- C) The earliest examples of writing in East Africa are thought to be featured in the paintings at the Dhagah Nabi Galay caves in Somaliland.
- D) In Somaliland, the paintings in the Laas Geel caves feature human figures and animals.

STOP

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

Do not turn to any other section.

1-The cane toad (*Rhinella marina*) was _____ to South America but was transported to Australia in 1935 in an attempt to control the beetle infestations on sugarcane plantation.

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

- A) innate
- B) congenital
- C) pandemic
- D) endemic

2-Be aware that some _____ business opportunity promoters have been known to name "insiders" who give glowing—but bogus—recommendations. Don't just talk to the few people they suggest. Choose whom to contact. What if what the seller is telling you is different from what's on the disclosure document or what you hear from another buyer? Step on the brake.

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

- A) arguable
- B) questionable
- C) improbable
- D) unresolved

3-The following text is adapted from Abraham Lincoln's last public address, given on April 11, 1965

If this course of rejection has any tendency to bring Louisiana into proper practical relations with the Union, I have, so far, been unable to perceive it. If, on the contrary, we recognize, and sustain the new government of Louisiana the converse of all this is made true.

As used in the text, what does the word "recognize" most nearly mean?

- A) identify
- B) accept
- C) realize
- D) appreciate

4-The Business Opportunity Rule governing franchise sales says that a seller has to give you the disclosure document at least seven days before you sign a contract or pay them anything. Use that time to check out the information in the disclosure document, including contacting references. Be aware that some questionable business opportunity promoters have been known to name "insiders" who give glowing but bogus-recommendations. Don't just talk to the few people they suggest. Choose whom to contact. What if what the seller is telling you is different from what's on the disclosure document or what you hear from another buyer? Step on the brake. An inconsistency could be a tell-tale sign of a business opportunity rip-off. However, it is important to remember that many business investments have a wide range of returns, so not all differences in profit are a deliberate attempt to scam a potential buyer.

What is the purpose of the information that the seller must disclose at least seven days before signing a contract?

- A) To point out that there is adequate time to make a decision
- B) To emphasize that the buyer is under a lot of pressure
- C) To indicate that honest references take time to find
- D) To offer the reason that sellers secure bogus recommendations

5-In order to learn more about the properties of fire in space, scientists aboard the International Space Station have conducted many experiments. Their goal is to gain valuable insight into the mechanisms of fire that will ultimately help prevent fires on spacecraft or offer solutions to quickly extinguish such fires. Flames act very differently in an environment devoid of gravity than they do on Earth. For example, spheres of light form, and the flames can ignite at extremely low temperatures. On Earth, a standard gas stove burns at about 3100 degrees Fahrenheit, but a sustained flame can burn at 900 degrees in the International Space Station.

What is the main purpose of the underlined portion in the overall structure of the text?

- A) It highlights the motivation for conducting the experiments.
- B) It outlines the methodology the scientists are using to conduct the experiments.
- C) It offers a point of comparison for the results of the experiments.
- D) It presents an example of the phenomenon viewed in the experiments.

6-This passage is adapted from Emma Lazarus's poem Spring Star.

Over the lamp-lit street,
Trodden by hurrying feet,
Where mostly pulse and beat
Life's throbbing veins,
See where the April star,
Blue-bright as sapphires are,
Hangs in deep heavens far,
Waxes and wanes.

What is the main structure of the text?

- A) It establishes a contrast between two images.
- B) It shows the futility of an action.
- C) It offers a solution to a problem.
- D) It elaborates on an extended metaphor.

7-The following text is adapted from F. Scott Fitzgerald's 1925 novel, *The Great Gatsby*.

Young Anthony had one picture of his father and mother together-so often had it faced his eyes in childhood that it had acquired the impersonality of furniture, but everyone who came into his bedroom regarded it with interest. It showed a dandy of the nineties, spare and handsome, standing beside a tall dark lady with a muff and the suggestion of a bustle. Between them was a little boy with long brown curls, dressed in a velvet Lord Fauntleroy suit. This was Anthony at five, the year of his mother's death.

Which choice best summarizes the text?

- A) A young man reminisces about his family.
- B) A man's family's appearance is explained.
- C) An aristocrat's achievements are outlined.
- D) The cause of a tragic event is revealed.

8-The Panama Canal stands as one of the greatest feats of engineering in all time. The idea was not new-in 1534, Charles, King of Spain, ordered a survey of the region -but it took until 1904 for the self-educated engineer John Frank Stevens to solve the technical problems with an intricate lock system and numerous inventions of equipment for the specialized tasks. Equally important were the efforts of Sanitation Engineer William C. Gorgas, who tirelessly oversaw the efforts to keep the work crews healthy. Entire cities of workers and their families needed food, clean water, medical care, and other essential services.

Based on the passage, why is William Gorgas key in building the Panama Canal?

- A) He was able to invent equipment that performed different functions.
- B) He was a doctor who took care of the workers' medical needs.
- C) He was zealous about fulfilling duties regarding the health of workers.
- D) He surveyed the area to determine the best way to build cities for workers.

9-George Herman "Babe" Ruth, Jr. (1895-1948) played 22 seasons of Major League baseball.

He started as a left-handed pitcher but made his fame as an outfielder and powerful batter, earning the title "Home Run King" Despite the decades that have passed since he stepped off the field, Babe Ruth is still a household name and considered one of the greatest American sports heroes. He was fortunate in that respect, as fans celebrated his triumphs against the background of news from World War I and the 1918 influenza pandemic.

Based on the text, what is one reason why Babe Ruth became so famous?

- A) He was an excellent pitcher.
- B) He showed people success during a grim time.
- C) He fought in World War I.
- D) He suffered from the 1918 influenza pandemic.

10-The extreme temperatures on the planet Mercury make it unlikely that there is any life on the planet in a form we would recognize. Mercury is closest to the Sun, and therefore the daytime temperatures are extremely hot, up to 800 degrees Fahrenheit (430 degrees Celsius). Since there is only a residual atmosphere, nights are much colder. In fact, despite its proximity to the Sun, Mercury _____

Which choice most logically completes the text?

- A) has an egg-shaped orbit which changes its distance from the Sun.
- B) rotates around the Sun faster than any other planet, in only 88 days.
- C) is approximately the same size as Earth's moon and covered with craters.
- D) might even be cold enough to have permanent water ice near the poles.

11-

Median annual wages for urban and regional planners in selected industries in the United States, May, 2019

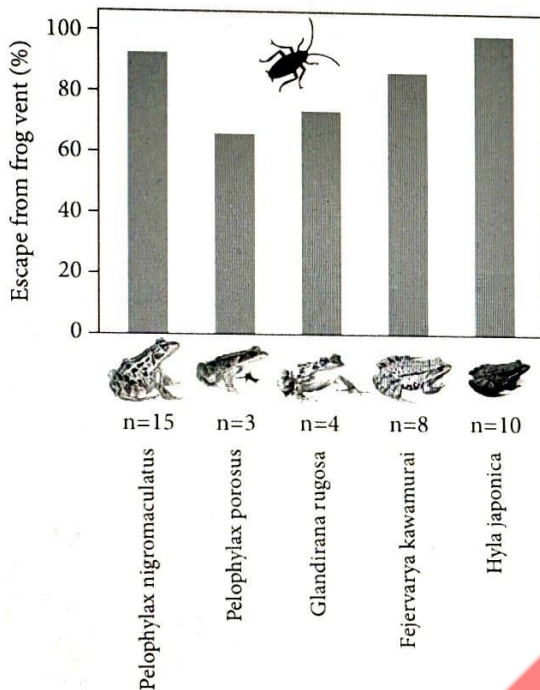


The median annual wage for urban and regional planners was \$73,050 in May 2018. The median wage is the wage at which half the workers in an occupation earned more than that amount and half earned less. The lowest 10 percent earned less than \$45,180, and the highest 10 percent earned more than \$114,170. The median rate varies depending on the field of the planning as well. For instance, the median income is _____

Which choice most effectively completes the example using information from the graph?

- A) higher for state government employees than for local government employees
- B) greater for those in architectural, engineering, and related fields than for those in any government position
- C) lower for those working in the government than for those who work in private industries such as engineering or related services
- D) not as high for management, scientific, and technical consulting service employees as it is for local government employees.

12-



“This study, authored solely by Sugiura Shinji, an ecologist from Kobe University in Japan, describes how the Japanese water scavenger beetle (*Regimbartia attenuata*) manages to extricate itself from inside several species of frog within 6 hours of being swallowed. Active escape of the aquatic beetle *Regimbartia attenuata* from the vents of five frog species via the digestive tract. Although adult beetles were easily eaten by frogs, _____.”

Which choice most effectively uses data from the graph to complete the text?

- A) a maximum of 65% of swallowed beetles were excreted were still alive.
- B) on average the swallowed beetles were excreted did not survive.
- C) it took less than 6 hours for the swallowed beetles to be extracted.
- D) an average of 90% of swallowed beetles were excreted were still alive.

13-The following text is adapted from Herman Melville's 1851 novel, *Moby Dick*; or *The Whale*.

I always go to sea as a sailor, because of the wholesome exercise and pure air of the fore-castle deck. For as in this world, head winds are far more prevalent than winds from astern (that is, if you never violate the Pythagorean maxim), so for the most part, the Commodore on the quarter-deck gets his atmosphere at second hand from the sailors on the fore-castle. He thinks he breathes it first; but not so. In much the same way do the commonalty lead their leaders in many other things, at the same time that the leaders little suspect it. But wherefore it was that after having repeatedly smelt the sea as a merchant sailor, I should now take it into my head to go on a whaling voyage; this the invisible police officer of the Fates.

With which idea about captains would the narrator most likely agree?

- A) They have worked hard to earn their position.
- B) They are greatly worthy of respect.
- C) They do not understand the needs of simple sailors.
- D) They are mistaken about the extent of their power.

14-The planet Venus is the second closest to the Sun in our solar system, but is generally hotter than the closest planet, Mercury-the average temperature is 462 degrees Celsius. That is because the atmosphere contains about 96 percent carbon dioxide, creating a greenhouse effect that is like having a giant blanket over the planet that retains the heat. The sulfuric acid in the atmosphere makes it very reflective, so Venus is the second brightest object in the night sky after the Moon.

According to the text, what is most likely true about the planet Mercury?

- A) It does not have any sulfuric acid in its atmosphere.
- B) Its temperature never exceeds 462 degrees Celsius.
- C) It has less than 96 percent carbon dioxide in its atmosphere.
- D) It is difficult to locate in the night sky because it is dark.

15-Coffee is the third most consumed beverage in the world, a welcome statistic for the people in Uganda, _____ is the leading cash crop.

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

- A. there, it
- B. where it
- C. which
- D. it

16-A classic image of colonial cooperation, _____ Martha kept detailed records of her experiences in the American frontier for over three decades.

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

- A) the diary of an 18th-century midwife named Martha Ballard documents several quilting bees
- B) an 18th-century midwife named Martha Ballard documented several quilting bees in her diary
- C) Martha Ballard, an 18th-century midwife, documented several quilting bees in her diary
- D) several quilting bees were documented in the diary of an 18th-century midwife named Martha Ballard

17-Marilyn Monroe, the iconic actress and fashion model from the 1950s and '60s, is attributed as _____ women rarely make history." In reality, the credit should go to Laurel Thatcher Ulrich, who was a student at the time but who later went on to become a professor at Harvard University.

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

- A) saying that, "Well-behaved
- B) having said that: "well-behaved
- C) she said, "Well-behaved
- D) saying that "well-behaved

18-Volunteers of America is a non-profit organization which helps homeless, disabled, senior, and other underserved individuals regain a balanced life. Over the past 125 years, the _____ have helped an average of 1.5 million people annually.

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

- A) volunteers efforts'
- B) volunteer's efforts
- C) volunteers' efforts
- D) volunteers's efforts'

19-Henry Wadsworth Longfellow's detailed poems greatly influenced the perception of various historical events, such as Paul Revere's nighttime ride during the American Revolutionary war, even though he sometimes _____ to make the poems more engaging.

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

- A) sacrificed accuracy for eloquence
- B) sacrificed--accuracy for eloquence
- C) sacrificed: accuracy for eloquence
- D) sacrificed (accuracy for eloquence)

20-Archaeologists determined that a pair of sandals made from sagebrush bark that were found in a cave in Oregon in 1939 are actually the oldest extant example of shoes in the _____ specimens have been dated to between 7,000 and 8,000 BCE.

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

- A) world; and the

B) world. Because the

C) world, the

D) world. The

21-Inflation is when the prices of goods and services generally increase, resulting in a decrease in the purchasing power of money. Economists debate about the effects of low levels of _____ high levels of inflation are universally accepted as disruptive to an economy.

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

- A) inflation,
- B) inflation;
- C) inflation:
- D) inflation

22-Edward Tingatinga's professional art career only lasted four years. _____ he is considered one of the most influential modern African painters and was the founder of an art style now archetypal in Tanzania.

Which choice completes the text with the most logical transition?

- A) Therefore,
- B) Even so,
- C) Specifically,
- D) Moreover,

23-Dogs trained for search and rescue have the same goal of finding humans, but there are actually two main methods that the dogs use to reach this goal. One is called air scent, in which a dog sniffs its surroundings and makes a straight line for the target once the scent is detected. _____ a dog sniffs the ground and follows the specific route that the person took, even if the path is very convoluted. This method is called tracking.

Which choice completes the text with the most logical transition?

- A) Furthermore,
- B) Precisely,
- C) However,
- D) Alternatively,

24-Tropical saltwater fish are beautiful to watch, but they take a lot of time and special equipment to maintain properly. That equipment is not cheap, either. A standard tank with fish can easily cost around \$2,000 to set up, and there are monthly expenses such as food, salt, and minerals, which can run over \$35 a month for a 50-gallon tank. _____ the upkeep alone is equivalent to over two coffee lattes from a specialty store every week.

Which choice completes the text with the most logical transition?

- A) On the other hand,
- B) Even so,
- C) In addition,
- D) In other words,

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

- Ada Lovelace (nee Byron) was born 1815 and was very interested in science and math from an early age, so her tutor introduced her to the mathematician Charles Babbage.
- Babbage is considered the "Father of the computer" because he invented an "Analytical Machine," which he used to calculate numbers.
- It is possible that Lovelace wrote the first computer program in the world because she helped design programs for the Analytical Machine.
- In a 1842-1843 Italian translation explaining how the Analytical Machine worked, she wrote down a program in an appendix that was not in the original materials provided by Babbage.
- She realized that the Analytical Machine could be used for non-numerical purposes if other symbols such as letters or musical notes were substituted. The student wants to emphasize that Ada Lovelace's contributions to mathematics are just as important as Charles Babbage's.

Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A) Charles Babbage is famous for creating the Analytical Machine, but Ada Lovelace also was interested in explaining how it worked to others, even in different languages.
- B) Ada Lovelace wrote a program for the Analytical Machine in 1842-1843, without which Charles Babbage would not have been able to create a working computer.
- C) Charles Babbage, Ada Lovelace's tutor, introduced her to the Analytical Machine, and she excelled beyond his abilities at using it.
- D) Although Babbage invented the Analytical Machine, Ada Lovelace was able to explain how it worked, create effective programs, and offer additional uses beyond mathematical calculations.

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

- A. Edward Tingatinga was born in 1932 in a small town called Namochelia in Tanzania.
- B. An art movement was named after his unique style of cartoon-like animals and landscapes.
- C. He tried his hand as a musician, and only started painting in 1968. His work was first done using recycled materials like old boards and bicycle paint.
- D. His work became popular among tourists so he was able to be an artist full time. He started a gallery and studio in 1970.
- E. In 1972 he was accidentally killed by a policeman who mistook him for someone else.
- F. His students continue to paint using his style and today his gallery is the largest in Africa.

The student wants to emphasize how influential Edward Tingatinga's painting is in Africa. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A) Edward Tingatinga painted using recycled materials, which started a trend towards using recycled art by a wide range of artists.
- B) Though his art career only lasted four years, Edward Tingatinga's art was appealing enough to build a following that carries on the art style today.
- C) Edward Tingatinga was the most popular artist of animals and landscapes for tourists to Africa, so his original paintings are highly sought-after today.
- D) Despite using recycled materials, Edward Tingatinga became so famous that other artists copied and sold pictures of his artwork.

27-Yellowstone National Park is a popular tourist site, but it is also an active supervolcano. Over the past 2.1 million years, it has erupted with such force that there are layers made of ash and pumice 400 meters thick in places. The most recent giant explosion, about 640,000 million years ago, emitted huge amounts of lava. Now, the park's famous geysers and hot springs are heated by the remaining pools of magma, which are at most 15 percent of their former size.

Which choice most effectively anticipates and addresses a relevant counterargument to the assertion presented in the passage?

- A) About 70,000 years ago, there was another eruption, but it was not of the same magnitude and consisted mostly of lava.
- B) Geologists have determined that Yellowstone had three supereruptions as well as several lesser eruptions.
- C) One might expect a giant peak, but so much magma poured out each time that the underlying reservoirs collapsed and formed a giant caldera.
- D) The region to the southwest, the Snake River Plain, had eruptions prior to the supereruptions at Yellowstone.

Math Test – No Calculator

30 MINUTES, 22 QUESTIONS

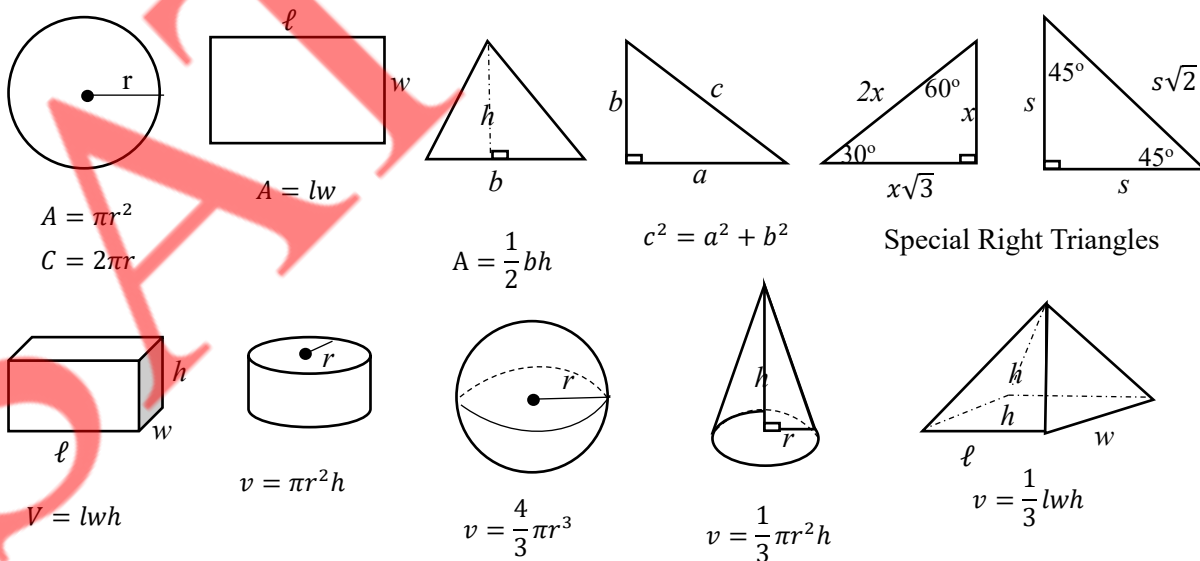
Turn to Section 3 of your answer sheet to answer the questions in this section.

DIRECTIONS

For questions 1-17, solve each problem, choose the best answer from the choices provided, and fill in the corresponding circle on your answer sheet. **For questions 18-22**, solve the problem and enter your answer in the grid on the answer sheet. Please refer to the directions before question 16 on how to enter your answers in the grid. You may use any available space in your test booklet for scratch work.

1. The use of a calculator **is not permitted**.
2. All variables and expressions used represent **real numbers** unless otherwise indicated.
3. Figures provided in this test are drawn to scale unless otherwise indicated.
4. All figures lie in a plane unless otherwise indicated.
5. Unless otherwise indicated, the domain of a **given** function f is the set of all real numbers x for which $f(x)$ is a real number.

REFERENCE



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

The number of radians of arc in a circle is 2π .

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

For multiple-choice questions, solve each problem, choose the correct answer from the choices provided, and then circle your answer in this book. Circle only one answer for each question. If you change your mind, completely erase the circle. You will not get credit for questions with more than one answer circled, or for questions with no answers circled.

For student-produced response questions, solve each problem and write your answer next to or under the question in the test book as described below.

- Once you've written your answer, circle it clearly. You will not receive credit for anything written outside the circle, or for any questions with more than one circled answer.
- If you find **more than one correct answer**, write and circle only one answer.
- Your answer can be up to 5 characters for a **positive** answer and up to 6 characters (including the negative sign) for a **negative** answer, but no more.
- If your answer is a **fraction** that is too long (over 5 characters for positive, 6 characters for negative), write the decimal equivalent.
- If your answer is a **decimal** that is too long (over 5 characters for positive, 6 characters for negative), truncate it or round at the fourth digit.
- If your answer is a **mixed number** (such as $3\frac{1}{2}$), write it as an improper fraction ($\frac{7}{2}$) or its decimal equivalent (3.5).
- Don't include **symbols** such as a percent sign, comma, or dollar sign in your circled answer.

1- Tony spends \$80 per month on public transportation. A 10-ride pass costs \$12.50, and a single-ride pass costs \$1.50. If g represents the number of 10-ride passes Tony buys in a month and t represents the number of single-ride passes Tony buys in a month, which of the following equations best represents the relationship between g and t ?

- A) $g + t = 80$
- B) $g + t = 1.50 + 12.50$
- C) $1.50g + 12.50t = 80$
- D) $12.50g + 1.50t = 80$

2- $T = 1,000 + 18h$

In the equation above, T represents Brittany's total take-home pay, in dollars, for her first week of work, where h represents the number of hours she worked that week and 1,000 represents a sign-on bonus. If Brittany's total take-home pay was \$1,576, for how many hours was Brittany paid for her first week of work?

- A) 16
- B) 32
- C) 55
- D) 88

3- A clothing store is having a sale on shirts and pants. During the sale, the cost of each shirt is \$15 and the cost of each pair of pants is \$25. Geoff can spend at most \$120 at the store. If Geoff buys s shirts and p pairs of pants, which of the following must be true?

- A) $15s + 25p \leq 120$
- B) $15s + 25p \geq 120$
- C) $25s + 15p \leq 120$
- D) $25s + 15p \geq 120$

4- What is the solution to $-3(x - 5) = -2x + 4$?

- A) 11
- B) $\frac{19}{5}$
- C) -9
- D) -19

5- $f(x) = x^3 + 3x^2 - 6x - 1$

For the function f defined above, what is the value of $f(-1)$?

- A) -11
- B) -7
- C) 7
- D) 11

6- Triangle ABC and triangle DEF are similar triangles, where $\overline{AB}$ and $\overline{DE}$ are corresponding sides. If $DE = 2AB$ and the perimeter of triangle ABC is 20, what is the perimeter of triangle DEF ?

- A) 10
- B) 40
- C) 80
- D) 120

7- There were no jackrabbits in Australia before 1788 when 24 jackrabbits were introduced. By 1920 the population of jackrabbits had reached 10 billion. If the population had grown exponentially, this would correspond to a 16.2% increase, on average, in the population each year. Which of the following functions best models the population $p(t)$ of jackrabbit's t years after 1788?

- A) $p(t) = 1.162(24)^t$
- B) $p(t) = 24(2)^{1.162t}$
- C) $p(t) = 24(1.162)^t$
- D) $p(t) = (24 \cdot 1.162)^t$

8- If $x(x - a) = (x - a)$, which of the following options must be true?

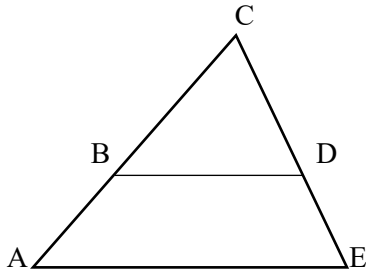
- I. $x = a$
- II. $x = 1$
- III. $x = a - 1$

- A) I only
- B) I and II only
- C) All of them
- D) None of them

9- The function f is defined by $f(x) = x^2$, and the function g is defined by $g(x) = x^2 + 3$. Which of the following translations of the graph of f in the xy -plane results in the graph of g ?

- A) A translation 3 units downward
- B) A translation 3 units upward
- C) A translation 3 units to the left
- D) A translation 3 units to the right

10-



Note: Figure not drawn to scale.

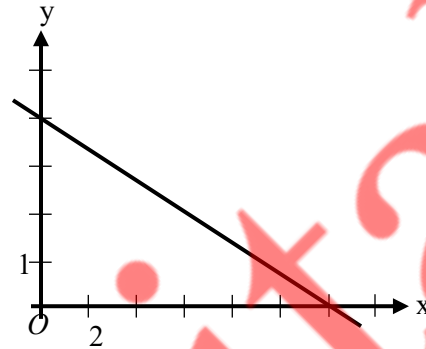
In the figure above, segments AE and BD are parallel. If angle BDC measures 58° and angle ACE measures 62° , what is the measure of angle CAE ?

- A) 58°
- B) 60°
- C) 62°
- D) 120°

11- What is the answer of $\frac{\cos(x-90)}{\sin(x-90)}$

- A) $\tan x$
- B) $-\tan x$
- C) $\cot x$
- D) $-\cot x$

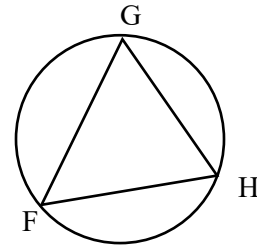
12-



Which of the following could be an equation for the graph shown in the xy -plane above?

- A) $y = -\frac{2}{3}x + 8$
- B) $y = -\frac{3}{2}x + 4$
- C) $y = -\frac{1}{3}x + 4$
- D) $y = -\frac{4}{3}x + 8$

13-



Note: Figure not drawn to scale.

Triangle FGH is inscribed in the circle above. If arc $\widehat{FG}$ is congruent to arc $\widehat{GH}$, and the measure of $\angle G$ is 30° , what is the measure of $\angle H$?

- A) 30°
- B) 60°
- C) 75°
- D) 120°

14- Which of the following is equivalent to $\sqrt[4]{x^2 + 8x + 16}$, where $x > 0$?

- A) $(x + 4)^4$
- B) $(x + 4)^2$
- C) $(x + 4)$
- D) $(x + 4)^{\frac{1}{2}}$

15- $\sin^2 x + \sin^2 x \cdot \tan^2 x =$

- A) $\sin^2 x$
- B) $\cos^2 x$
- C) $\tan^2 x$
- D) $\cot^2 x$

16- What is the value of $(2 - 2i)(5 + 5i)$?
($i = \sqrt{-1}$)

- A) 0
- B) $10 - 10i$
- C) 10
- D) 20

17- If a and b are roots of the equation $5x^2 + 125x + 1$, what is the value of $\frac{1}{a} + \frac{1}{b}$?

- A) 25
- B) -25
- C) 125
- D) -125

18- $\frac{11x-33}{x-3} = x$

What is the solution to the equation above?

19- $2x + 3y = 31$
 $3x - y = 30$

If (x, y) is the solution to the system of equations above, what is the value of $100x + 40y$?

20- If two sides of a triangle are 4 and 5, what is the maximum possible area of triangle?

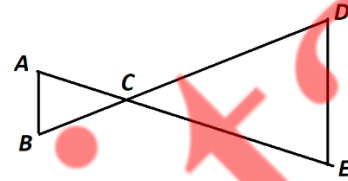
3

3

21- $h(x) = x^3 + ax^2 + bx + c$

The function h is defined above, where a , b , and c are integer constants. If the zeros of the function are -5 , 6 , and 7 , what is the value of c ?

22- If AB is parallel to DE and $DE=3AB$ and $AC=5$, what is length of AE ?



STOP

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

Do not turn to any other section.

Math Test – Calculator

30 MINUTES, 22 QUESTIONS

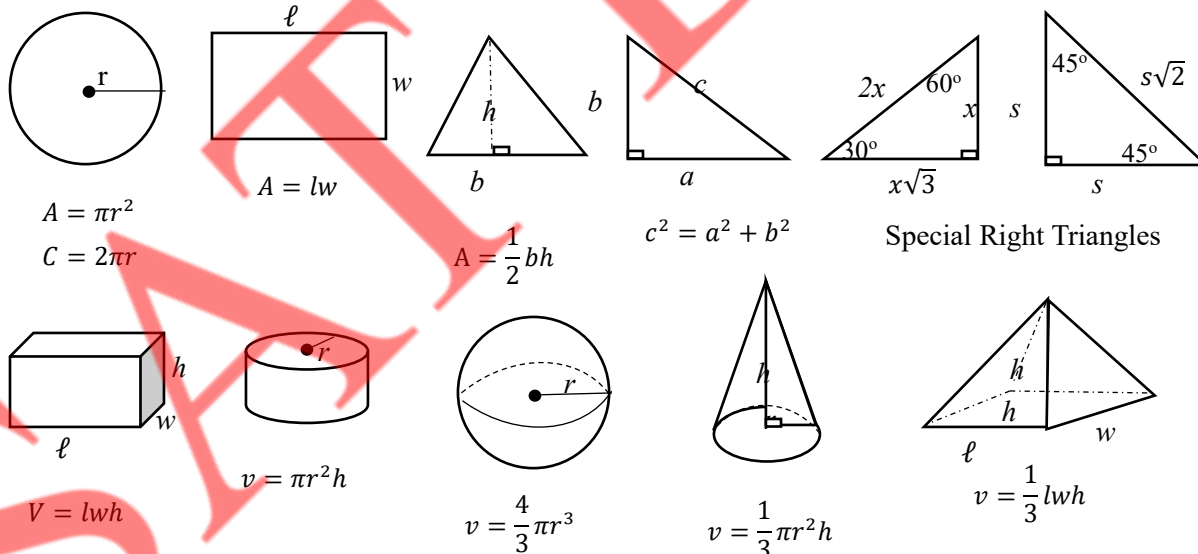
Turn to Section 4 of your answer sheet to answer the questions in this section.

DIRECTIONS

For questions 1-18, solve each problem, choose the best answer from the choices provided, and fill in the corresponding circle on your answer sheet. For questions 19-22, solve the problem and enter your answer in the grid on the answer sheet. Please refer to the directions before question 16 on how to enter your answers in the grid. You may use any available space in your test booklet for scratch work.

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5. Unless otherwise indicated, the domain of a given function f is the set of all real numbers x for which $f(x)$ is a real number.

REFERENCE

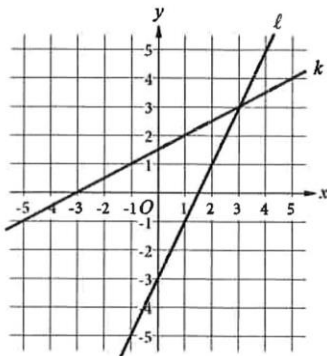


The number of degrees of arc in a circle is 360.

The number of radians of arc in a circle is 2π .

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

1-



Lines ℓ and k in the xy -plane above are the graphs of the equations in a system. How many solutions does the system of equations have?

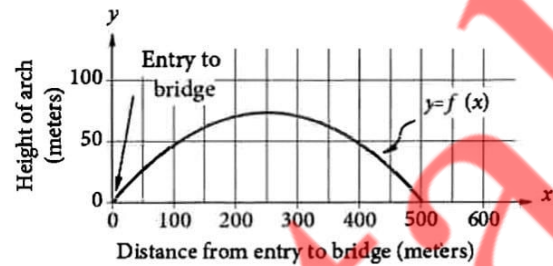
- A) None
- B) One
- C) Two
- D) More than two

2- Which of the following option must be always positive?

- A) $x^2 - 4x + 2$
- B) $x^2 - 6x + 9$
- C) $x^2 - 8x + 20$
- D) $-x^2 + 2x$

3- $f(x) = -0.001160(x - 251.5)^2 + 73.37$

The vertical height, in meters, of the upper arch of the Harbor Bridge in Sydney, Australia, above the roadway of the bridge can be modeled by the function above, where x is the horizontal distance along the roadway, in meters, from the entry to the bridge. The graph of $y = f(x)$ is shown in the xy -plane below.



In the graph, the point $(0, 0)$ represents the entry to the bridge. Which of the following points represents the exit from the bridge on the opposite end?

- A) $(0, 73.37)$
- B) $(0, 503.0)$
- C) $(73.37, 0)$
- D) $(503.0, 0)$

4- The graph of $y = f(x)$ is a line in the xy -plane that passes through the point $(0, 2)$ and has a slope of 5. Which of the following equations could define the function f ?

- A) $f(x) = -\frac{1}{2}x + 5$
- B) $f(x) = -\frac{1}{5}x + 2$
- C) $f(x) = 2x + 5$
- D) $f(x) = 5x + 2$

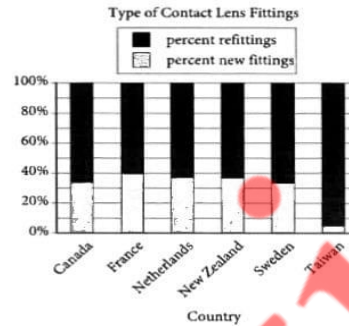
5- $f(x) = (x + 4)(x - 1)(2x - 3)$

The function f is defined above. Which of the following is NOT an x -intercept of the graph of the function in the xy -plane?

- A) $-4, 0$
- B) $\left(-\frac{2}{3}, 0\right)$
- C) $(1, 0)$
- D) $\left(\frac{3}{2}, 0\right)$

Questions 6 and 7 refer to the following information.

Country	Total fittings	Mean age
Canada	936	34.6
France	1,470	34.9
Netherlands	943	35.0
New Zealand	721	36.3
Sweden	436	36.3
Taiwan	1,574	26.6



The results of an international survey of contact lens fittings during a given time period are summarized in the table and bar graph above. The table shows the number of total fittings and the mean age, in years, of the patients who were fitted for contact lenses during the time period. The total fittings consisted of new contact lens fittings and refittings. The bar graph shows the percent of the patients who received new fittings and the percent who received refittings.

6- What is the range, in years, of the mean ages of the patients surveyed who had contact lens fittings in the countries shown?

- A) 8.0
- B) 8.4
- C) 9.7
- D) 10.3

7- Of the following, which best approximates the number of patients surveyed who received refittings in *New Zealand*?

- A) 274
- B) 358
- C) 447
- D) 585

8- A park ranger asked a random sample of visitors how far they hiked during their visit. Based on the responses, the estimated mean was found to be 4.5 miles, with an associated margin of error of 0.5 miles. Which of the following is the best conclusion from these data?

- A). It is likely that all visitors hiked between 4 and 5 miles.
- B) It is likely that most visitors hiked exactly 4.5 miles.
- C) It is not possible that any visitor hiked less than 3 miles.
- D) It is plausible that the mean distance hiked for all visitors is between 4 and 5 miles.

9-

Observed Matings among Fruit Flies

		Female fruit fly group		Total
		Female raised on maltose	Female raised on starch	
Male fruit fly group	Male raised on starch	22	9	31
	Male raised on maltose	8	20	28
	Total	30	29	59

The table above shows the observed mating frequencies among a group of fruit flies raised on either a starch medium or a maltose medium. What fraction of the observed matings were between fruit flies that were raised on the same medium?

- A) $\frac{9}{31}$
- B) $\frac{17}{59}$
- C) $\frac{31}{59}$
- D) $\frac{42}{59}$

10-

$$f(x) = x^2 - 2x + 3$$

$$g(x) = 2x^2 + 4x + p$$

If $f(x)$ and $g(x)$ has only one solution, what is the value of $g(2)$?

- A) 36
- B) 28
- C) 16
- D) 9

11- What is the value of $|0|$?

- A) 0
- B) 1
- C) undefined
- D) infinite

12- The graph of the exponential function g in the xy -plane passes through the points $(0, 1)$, $(1, 4)$, and $(2, 16)$. Which of the following is NOT true?

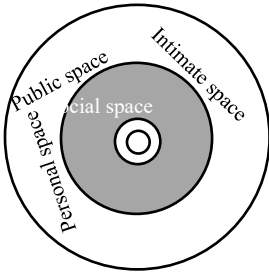
- A) A line can be drawn that does not intersect the graph of g .
- B) A line can be drawn that intersects the graph of g at exactly one point.
- C) A line can be drawn that intersects the graph of g at exactly two points.
- D) A line can be drawn that intersects the graph of g at exactly three points.

13- If $\frac{\sqrt{x^5}}{\sqrt[3]{x^4}} = x^{\frac{a}{b}}$ for all positive values of x ,

what is the value of $\frac{b}{a}$?

- A) $\frac{6}{7}$
- B) $\frac{7}{6}$
- C) $\frac{12}{5}$
- D) $\frac{5}{12}$

14-



Note: Figure not drawn to scale.

The diagram above represents Edward T. Hall's concept of space surrounding a person defined by four nonoverlapping regions. Intimate space is the region inside a circle of radius 1 foot. Personal space is the region within a circle of radius 4 feet but outside intimate space. Social space is the region within a circle of radius 12 feet but outside personal space. Public space is the region within a circle of radius 25 feet but outside social space. What is the area, in square feet, of the shaded region representing a person's social space?

- A) 127π
- B) 128π
- C) 144π
- D) 625π

15- What is the minimum value of equation below?

$$\sin|2x| + 5$$

- A) 6
- B) 5
- C) 4
- D) 3

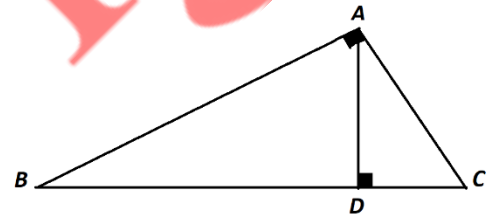
16-

$$\frac{2}{x-2} + \frac{3}{x+5} = \frac{rx+t}{(x-2)(x+5)}$$

The equation above is true for all $x > 2$, where r and t are positive constants. What is the value of rt ?

- A) -20
- B) 15
- C) 20
- D) 60

17- In figure below, if $AD=12$ and $DC=5$, what is the value of $\cos(B)$?



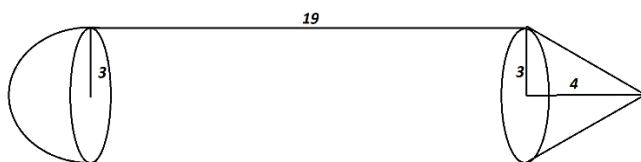
- A) $\frac{5}{13}$
- B) $\frac{12}{13}$
- C) $\frac{5}{12}$
- D) $\frac{13}{12}$

18-What is the radius of the circle that passes through points $(0, 0)$ and $(3, 1)$ and the line to equation $y = 2x$ intersects its center?

- A) 3
- B) $\sqrt{5}$
- C) 2
- D) $\sqrt{3}$

19- If a is the mean and b is the median of nine consecutive integers, what is the value of $|a - b|$?

20- What is the surface area of shape to nearest whole number? ($\pi=3.14$)



21- The standard deviation of a data set is 5. If a new data set is created by subtracting 6 from each data value, what is the standard deviation of the new data set?

22- A quadratic function can be used to model the height, in feet, of an object above the ground in terms of the time, in seconds, after the object was launched. According to the model, an object was launched into the air from a height of 0 feet and reached its maximum height of 25 feet 1.25 seconds after it was launched. Based on the model, what was the height, in feet, of the object 1.5 seconds after it was launched?

STOP

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

Do not turn to any other section.