

1 $3^{3/4} \div 2^{1/2}$

Simplify the expression above. Which of the following is correct?

- $2/3$
- $1^{1/2}$
- $6^{3/8}$
- $9^{3/8}$

2 A professor puts together a 98-page handout to distribute at a seminar. The registration list indicates there will be 568 participants. Which of the following is the number of pages the professor will print?

- 54,904
- 54,964
- 55,604
- 55,664

3 A couple is planning a wedding and has \$500 to spend on candles. Large candles cost \$6 and small candles cost \$4. After spending \$360 on large candles, which of the following is the number of small candles the couple can purchase with the remaining money?

- 23
- 35
- 60
- 90

4 $3m + 7 = 5$

Solve the equation above for m . Which of the following is correct?

- 4
- $-2/3$
- $2/3$
- 4

5 A jogger on a treadmill is jogging at 5 miles per hour. Which of the following is the time it will take him to jog 1 mile?

- 5 minutes
- 6 minutes
- 12 minutes
- 20 minutes

- 1 They drove a hard bargain. They pressured us to agree to the deal. They were fair in the end. We agreed to the deal.

The four sentences above are stated in chronological order. Which of the following options is the best method for condensing the four sentences?

- We agreed to the deal because they drove a hard bargain and pressured us to agree, but they were fair in the end.
- They drove a hard bargain and pressured us to agree to the deal; however, we agreed to the deal because they were fair in the end.
- They drove a hard bargain, and they pressured us to agree to the deal, but they were fair in the end so we agreed to the deal.
- We agreed to the deal because they were fair in the end while driving a hard bargain and pressuring us to agree to the deal.

- 2 The students felt fairly prepared for whatever tests their instructors might give them, after years of intense studying, however difficult the tests might be.

Which of the following is misplaced in the sentence above?

- however difficult the tests might be
- The students felt fairly prepared
- after years of intense studying
- whatever tests their instructors might give them

- 3 Which of the following options best demonstrates sentence fluency?

- Poring over the books for hours; they were to be sold tomorrow.
- The books were to be sold tomorrow, that's why she spent hours poring over them.
- Tomorrow, the books were to be sold, therefore, she spent hours poring over them.
- She spent hours poring over the books because they were to be sold tomorrow.

- 4 Which of the following options is spelled correctly?

- sacrafice
- sacrafise
- sacrifice
- sacrifise

- 5 Which one of these doors _____ to the kitchen?

Which of the following options correctly completes the sentence above?

- lead
- leads
- are leading
- have led

- 1 A student wants to design an experiment to demonstrate the effects of acid rain on plant life. Which of the following substances should be combined with water to best simulate acid rain?
- Vinegar
 - Table salt
 - Baking soda
 - Ammonia
-
- 2 Which of the following terms describes the direct conversion of dry ice from the solid to the gas phase?
- Fusion
 - Condensation
 - Sublimation
 - Evaporation
-
- 3 Which of the following is the result when hemoglobin fails to transport sufficient amounts of oxygen?
- Angina
 - Hearing loss
 - Bone density loss
 - Anemia
-
- 4 The nucleus of an atom is composed of uncharged particles as well as which of the following?
- Protons
 - Neutrons
 - Electrons
 - Positrons
-
- 5 In a certain plant, red flower color (R) is dominant over white (r). If a plant heterozygous for red flower color and one with white flower color are crossed, which of the following would be the expected proportion of individuals in the next generation?
- $\frac{4}{4}$ red : $\frac{0}{4}$ white
 - $\frac{3}{4}$ red : $\frac{1}{4}$ white
 - $\frac{1}{2}$ red : $\frac{1}{2}$ white
 - $\frac{1}{4}$ red : $\frac{3}{4}$ white
-
- 6 Which of the following is a main function of vitamins?
- Providing structure to cell membranes
 - Supplying the brain with an energy source
 - Facilitating the action of enzymes
 - Promoting the absorption of carbohydrates
-

Americans need to exercise more often. Many Americans are unable to complete easy physical tasks because they devote so little time to any activity. Running is one exercise that offers several physical and mental benefits. It helps the body tolerate stress and strain. Running benefits skeletal muscles, the heart, and lungs. It increases a person's energy level, decreases feelings of depression, and produces a more cheerful outlook on life. Of the many different kinds of exercise, running is one of the best. More Americans should put on their sneakers and run; they would soon notice the positive results.

The next three questions are based on this passage.

- 1 Which of the following is the main idea of the article?
- The physical condition of many Americans is poor.
 - Physical conditioning offers physiological and mental benefits.
 - Running is the most beneficial type of exercise.
 - Running for exercise causes positive changes.

- 2 Which of the following is the author's intent in the passage?
- To persuade
 - To inform
 - To entertain
 - To express feeling

- 3 Which of the following is a fact, as opposed to opinion, in the passage?
- Americans need to exercise more often.
 - Many Americans are unable to complete easy physical tasks.
 - Of the many different kinds of exercise, running is one of the best.
 - More Americans should put on their sneakers and run.

People love walking outside on a cold day, exhaling deeply, and watching their breath in the air. Did you know that you are essentially "making a cloud"? When warm, moist air and cold air meet, clouds are formed. For example, when a day is extremely warm and the night turns cold, heat radiating from the Earth's surface comes in contact with the colder night air and forms low clouds, or fog. Another example when clouds often form is when warm air blows in from over the ocean and comes in contact with cooler air over land.

The next two questions are based on this passage.

- 4 Which of the following situations is likely to create a cloud?
- Summer wind travels up a snow-capped mountain.
 - The sun sets in an equatorial region.
 - Winter wind blows across a frozen lake.
 - The sun rises in a tropical rainforest.
- 5 Which of the following describes the purpose of the first two sentences of the passage?
- Summarization
 - Narration
 - Persuasion
 - Illustration

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Section 3
Science Assessment

Time limit: 66 minutes
Number of questions: 54



WAIT FOR INSTRUCTIONS.

- Which of the following are the sites within the human body where carbon dioxide and oxygen are exchanged?
 - Alveoli
 - Arteries
 - Synapses
 - Venules
- Which of the following describes the most important reason for repeating an experimental investigation?
 - To verify the validity of the original findings
 - To expand upon the original investigation
 - To manipulate the independent variable
 - To attempt to disprove the hypothesis
- Lithium has an atomic number of 3 and a mass number of 7. Which of the following is the number of protons in a lithium atom?
 - 3
 - 4
 - 7
 - 12
- Which of the following molecules contains the fewest covalent bonds?
 - Water molecule (H_2O)
 - Ammonia molecule (NH_3)
 - Methane molecule (CH_4)
 - Chlorine molecule (Cl_2)
- When salt (NaCl) is added to water, it disassociates into Na^+ and Cl^- ions. Which of the following types of chemical bond is present in a salt molecule?
 - Covalent bond
 - Ionic bond
 - Hydrogen bond
 - Disulfide bond
- An example of active immunity is the transfer of
 - antibodies through the placenta.
 - immunoglobulins through breastfeeding.
 - antigens through vaccination.
 - immune cells through a blood transfusion.
- Which of the following classes of biological molecules include enzymes?
 - Carbohydrates
 - Lipids
 - Proteins
 - Vitamins

Section 2

Mathematics Assessment

Time limit: 51 minutes
Number of questions: 34



WAIT FOR INSTRUCTIONS.

1. A jogger on a treadmill is jogging at 5 miles per hour. Which of the following is the time it will take him to jog 1 mile?
- A. 5 minutes
 - B. 6 minutes
 - C. 12 minutes
 - D. 20 minutes
2. Which of the following is the Roman numeral equivalent of 80?
- A. LXXX
 - B. CXXX
 - C. XLXL
 - D. XCXC
3. One hundred twenty-five tickets have been sold for an event at a local theater. If this represents 25% of the capacity for the theater, which of the following is the capacity?
- A. 156
 - B. 375
 - C. 410
 - D. 500
4. In a bag of candy, there are five red candies for every two green candies. If there are 35 total candies in the bag, which of the following is the total number of green candies in the bag?
- A. 5
 - B. 10
 - C. 20
 - D. 25
5. An investor owns 50 shares of a stock worth \$15.30 per share. Which of the following is the amount of money the investor would receive if he cashed in half of the shares of this stock?
- A. \$382.50
 - B. \$765.00
 - C. \$38,250.00
 - D. \$76,500.00
6. $0.3 \div 0.06$
- Simplify the expression above. Which of the following is correct?
- A. 0.2
 - B. 0.5
 - C. 2
 - D. 5
7. At a used car dealership, the first determinant in the price of a car is the model, followed by the mileage and age of the car. Which of the following is the dependent variable?
- A. Mileage
 - B. Age
 - C. Price
 - D. Model

Section 1

Reading Assessment

Time limit: 58 minutes
Number of questions: 48



WAIT FOR INSTRUCTIONS.

TV news viewership has declined steadily over the past two decades. Several factors may have contributed to the decline: busy lifestyles, lack of interest, and the rise of the Internet. As viewership has declined, the remaining viewers have aged. Today, the average evening news viewer is 60 years old. TV networks' response to these changes has largely been negative. They have dropped hard news in favor of opinion pieces, "puff pieces," and stories that are of interest only to their older demographic. As a result, TV news has not just become unpopular, it has also become largely worthless.

The following questions are based on this passage.

1. Which of the following statements from the passage is an opinion?
 - A. Several factors may have contributed to the decline.
 - B. As viewership has declined, the remaining viewers have aged.
 - C. They have dropped hard news.
 - D. It has also become largely worthless.

 2. Which of the following is the author's purpose in the passage?
 - A. To convince readers that TV news is no longer worth watching
 - B. To show how busy lifestyles have caused a decline in TV news watching
 - C. To explain that TV news uses "puff pieces" to attract viewers
 - D. To describe how the Internet has had an adverse effect on TV news
-

Section 3

Science Assessment

Time limit: 66 minutes
Number of questions: 54



WAIT FOR INSTRUCTIONS.

1. Giraffes have long necks that allow them to reach more food sources in their habitat. The long neck trait is an example of
- A. selection.
 - B. adaptation.
 - C. radiation.
 - D. homology.

2. Which of the following is the most common kind of chemical bond in biological molecules?
- A. Covalent
 - B. Ionic
 - C. Delocalized
 - D. Unsaturated

3. A cylinder and an airtight piston are used in the following experiment. The piston is pushed up and down in the cylinder and the resulting pressure of the air inside the cylinder is measured with a pressure gauge. The results of the experiment are recorded in the following table:

| Volume of Air (L) | Pressure Reading (Atm) |
|-------------------|------------------------|
| 8 | 1 |
| 4 | 2 |
| 2 | 4 |
| 1 | 8 |

A hypothesis concerning the apparatus is stated as follows: "When the volume of the cylinder is decreased, the pressure is increased."

Which of the following statements is true?

- A. The hypothesis is supported by the experimental data.
 - B. The hypothesis is refuted by the experimental data.
 - C. The hypothesis is not addressed by the experiment.
 - D. There is not enough information to make a judgment about the hypothesis.
4. Which of the following procedures is an appropriate negative control for testing the hypothesis that air contains bread mold spores?
- A. Seal slices of bread in a container to minimize air contact.
 - B. Place slices of bread in a refrigerated environment.
 - C. Add ingredients to the bread recipe that will slow mold growth.
 - D. Expose a different mold-supporting medium to air.
5. A researcher wants to develop a new pharmaceutical compound to treat pain. Which of the following strategies will likely be the most effective process?
- A. Test extracts from newly discovered plants for pain-killing substances.
 - B. Read anthropological studies to discover plants identified to relieve pain.
 - C. Study molecular structures of existing pain medications and make structural analogs.
 - D. Research the pain receptors of people who have unusually high pain thresholds.

Section 4

English and Language Usage Assessment

Time limit: 34 minutes
Number of questions: 34



WAIT FOR INSTRUCTIONS.

1. The smugglers stood before the judge, who was known for her strict manner, and entered their pleas with faint hopes that the evidence would not prove their guilt.

Which of the following homophones should be used to correct the error in the sentence above?

- A. Manor
- B. Please
- C. Faint
- D. Gilt

2. The nurse, who was late for work, put the manual into a large blue tote bag getting out of the car.

Which of the following is misplaced in the sentence above?

- A. who was late for work
- B. getting out of the car
- C. into a large blue tote bag
- D. put the manual

3. The quarterback, along with his teammates, _____ congratulated following a dramatic victory.

Which of the following options correctly completes the sentence above?

- A. was
- B. were
- C. have been
- D. were being

4. Based on an analysis of word structure, which of the following is the meaning of the word "bibliophile"?

- A. Reference text
- B. Book lover
- C. Resource list
- D. Novel publisher

5. Which of the following is a complete sentence?

- A. While talking on my cell and listening to the radio.
- B. Yesterday, in the morning while I was asleep.
- C. Cornered by a deer in the late evening.
- D. Because I finished my homework, I may go out.

6. Which of the following sentences correctly follows the rules of punctuation and capitalization?

- A. There are two main sources of water pollution: Sewers and factories.
- B. There are two main sources of water pollution: sewers and factories.
- C. There are two main sources of water pollution; Sewers and factories.
- D. There are two main sources of water pollution; sewers and factories.

7. According to her parents, the book that I found was her's. She told me, however, that she didn't want it back.

Which of the following is an error in the sentences above?

- A. Improper use of a comma after the word "parents"
- B. Improper use of an apostrophe in the word "her's"
- C. Improper use of commas around the word "however"
- D. Improper use of an apostrophe in the contraction "didn't"

Section 2

Mathematics Assessment

Time limit: 51 minutes
Number of questions: 34



WAIT FOR INSTRUCTIONS.

- Which of the following is the Roman numeral equivalent of 15?
 - VI
 - XV
 - VX
 - IV
- The hypotenuse (side C) of a triangle is 13 inches long. Which of the following pairs of measurements could be correct for the lengths of the other two sides of the triangle? (Note: $A^2 + B^2 = C^2$)
 - 2.5 inches, 4 inches
 - 2.5 inches, 6 inches
 - 5 inches, 8 inches
 - 5 inches, 12 inches
- Two runners are competing in a race. One runner averages a pace of 7 minutes per mile and finishes the race in 28 minutes. The second runner finishes the race in 30 minutes. Which of the following is the pace of the second runner?
 - 7 minutes, 15 seconds per mile
 - 7 minutes, 30 seconds per mile
 - 8 minutes, 15 seconds per mile
 - 8 minutes, 30 seconds per mile
- A real estate agent sold a house 3 years ago for \$90,403. The house has declined in value by \$19,567. Which of the following is the value of the house in the current market?
 - \$70,836
 - \$70,846
 - \$70,936
 - \$70,946

5.

| Type of Facility | Library | Recreation Center | Park | Amphitheater |
|-------------------|---------|-------------------|------|--------------|
| Percent of People | 19% | 14% | 42% | 25% |

A survey was given to a random sample of people in a town about the facility they use most often. Results are shown in the table above. If the results of this sample are projected to the entire population of 42,000, which of the following is the projected number of town members who most often use the recreation center?

- 300
 - 588
 - 3,000
 - 5,880
- Three pools are being drained for the winter. It takes Pool B twice as long to drain compared to Pool A, and it takes Pool B three times as long to drain compared to Pool C. If Pool C drains in 6 hours, which of the following is the number of hours it takes Pool A to drain?
 - 1
 - 4
 - 9
 - 36



Section 1

Reading Assessment

Time limit: 58 minutes
Number of questions: 48



WAIT FOR INSTRUCTIONS.

Ears

By the nature of their position and the delicacy of their structure, your hearing organs are particularly vulnerable to mishap. From the outside come blows that rupture the eardrums, noises that degenerate nerves, and air-pressure changes that disturb balancing mechanisms. Inside the body, infectious micro-organisms cause diseases that affect hearing.

Any one of these enemies is a potential cause of partial or even total deafness. Neglect of seemingly minor ear troubles can mean severe problems in the future – a fact that haunts every parent whose child wakes up in the middle of the night crying with an earache.

The hearing mechanism is divided into four main parts. Each has a vital role in the process that transforms sound into intelligible communication.

First, the external ear is made up of the auricle – that shell-shaped appendage on each side of the head – and the external ear canal. These structures collect sound waves and transmit them to the ear drum, or tympanic membrane.

The middle ear is an air-filled cavity behind the drum, and it contains three small bones (the ossicles) that are vibrated by sound waves and serve to transmit the waves to the inner ear. Opening into the middle ear is the Eustachian tube, which connects the tympanic chamber with the nose and equalizes the pressure between the outside atmosphere and the middle ear.

In the inner ear are the semicircular canal, which gives the body its balance, and the tiny hearing cells that transform the vibrations of the ossicles first into fluid waves and then into nerve impulses. Finally, the auditory nerve pathway carries impulses to the brain, where they are translated into words and signals. Altogether, hearing represents a wonderfully complex arrangement for acoustical perfection – better by far than any human engineer has ever devised. Yet, millions of Americans suffer from impaired hearing.

The following questions are based on the "Ears" passage.

1. Which of the following is the main idea of the passage?
 - A. Understanding how to care for one's ears is essential to good health.
 - B. The intricate structure of the human ear is susceptible to damage.
 - C. Many people suffer from impaired hearing.
 - D. Ears can be harmed in a number of different ways.

2. Which of the following is an example of an opinion in the passage?
 - A. The delicacy of the human ear makes it particularly vulnerable to harm.
 - B. Seemingly minor ear troubles can lead to severe problems.
 - C. Each part of the ear has a vital role in transforming sound.
 - D. The ear is a better acoustical structure than any engineer has ever designed.

3. Which of the following is a logical conclusion based on the passage?
 - A. Human hearing is superior to that of other animals.
 - B. Childhood earaches can lead to severe problems later in life.
 - C. The pressure between the outside atmosphere and the middle ear must be exactly equalized for hearing.
 - D. The outer ear is the most important part in the hearing process because it translates sound waves into nerve impulses.

Section 4

English and Language Usage Assessment

Time limit: 34 minutes
Number of questions: 34



WAIT FOR INSTRUCTIONS.

1. Which of the following is a complete sentence?

- A. When I was young and ambitious and loved going for walks in the park.
- B. Running through the park and around the school before breakfast.
- C. Walking with a limp as a result of the wreck.
- D. I went walking.

2. Which of the following sentences is written correctly?

- A. When properly designed, an automobile can achieve great fuel efficiency.
- B. When properly designed an automobile can achieve great fuel efficiency.
- C. When properly designed, great fuel efficiency can be achieved by an automobile.
- D. When properly designed great fuel efficiency can be achieved by an automobile.

3. The movie star caused a kerfuffle at the mall as shoppers quickly gathered around to get a better look and take pictures.

Which of the following is the meaning of "kerfuffle" as used in the sentence above?

- A. A misunderstanding
- B. A commotion
- C. A withdrawal
- D. A review

4. In the race for student body government, both students were coequal. Their speeches each pointed to their records of service and academic excellence.

Which of the following options is the meaning of "coequal" as used in the sentence above?

- A. The students gave speeches that were the same length.
- B. The students shared the same opinion on the issues.
- C. The students were running for the same office.
- D. The students had similar accomplishments.

5. Which of the following options best demonstrates sentence fluency?

- A. The two boys went to the store to buy some milk with their mother and her boyfriend, who had a broken foot after supper.
- B. The two boys went to the store to buy some milk after supper with their mother's boyfriend and her, even though he had a broken foot.
- C. Their mother went with the two boys to the store to buy some milk, and they took along her boyfriend, who had a broken foot, after supper.
- D. After supper, the two boys took their mother and her boyfriend, who had a broken foot, to the store to buy some milk.

6. Jimmy you must leave the room shut the door and be quiet.

Which of the following options correctly punctuates the sentence above?

- A. Jimmy, you must leave the room, shut the door, and be quiet.
- B. Jimmy; you must leave the room, shut the door and be quiet.
- C. Jimmy you must leave the room, shut the door and be quiet.
- D. Jimmy you must leave the room, shut the door, and be quiet.

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