

TEST OF ESSENTIAL
ACADEMIC SKILLS
VERSION V

SECTIONS
READING
MATHEMATICS
SCIENCE
ENGLISH & LANGUAGE USAGE

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DATE



YOU MAY BEGIN.

Instructions

For the Assessment

Do not begin until instructed to do so.

1. Read the question and the options entirely before you answer. Unanswered questions are scored as incorrect.
2. You will not be allowed to communicate with your peers, other students, or students from other programs in the testing center during the test.
3. You are not allowed to smoke, eat, or drink while in the testing room.
4. For security reasons, you will not be allowed to leave the testing room or place phone calls during the test.
5. Beepers, cell phones, calculators, and other personal electronic devices are prohibited during the test.
6. If you have a question or a problem, raise your hand to alert the proctor.
7. Each test is different, so your assessment will be different than the person's next to you.
8. The proctor will not answer any questions concerning the content of the exams or the meaning of any questions. The proctor WILL assist you with any technical questions about filling in the answer sheet.
9. Your answer sheet will be scanned, and your answers will then be stored securely in a database and cannot be obtained by any other student.
10. After the test is scored, you will be able to view your results and print a hard copy of them by logging on to atitesting.com.
11. Do not begin the test until the proctor tells you to do so.
12. When you see the  symbol, DO NOT continue on to the next section of the test until the proctor instructs you to do so.
13. Record your answer to each question ON THE ANSWER SHEET provided. Fill in each circle completely and erase stray marks from your answer sheet. You may mark in the booklet margins or use scratch paper provided by the proctor.



WAIT FOR INSTRUCTIONS.

Sample Questions

Read the two sample questions labeled S1 and S2. Locate the sample questions on your answer sheet. Mark your answers on the answer sheet in the spaces provided. Fill in the bubbles completely. These sample items will not be scored.

S1. Which of the following words means the same as automobile?

- A. Food
- B. Money
- C. Work
- D. Car

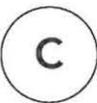
The solution is D.

				Correctly shaded
				Incorrectly shaded
				Incorrectly shaded
				Incorrectly shaded

S2. Which of the following is the number of syllables in the word "candy"?

- A. 1
- B. 2
- C. 3
- D. 4

The solution is B.

			
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WAIT FOR INSTRUCTIONS.

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TEST OF ESSENTIAL ACADEMIC SKILLS ■ ■ ■

**READING, MATHEMATICS, SCIENCE, AND
ENGLISH AND LANGUAGE USAGE**

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.

4. Which of the following types of text structure is used in the last four paragraphs?
- A. Sequence
 - B. Problem-solution
 - C. Cause-effect
 - D. Argument
5. Which of the following parts of the ear is most likely to be affected by flying on an airplane or diving into a swimming pool?
- A. External ear
 - B. Middle ear
 - C. Inner ear
 - D. Auditory nerve pathways
-

In recent years, bottled water has become a multi-billion dollar industry. Many Americans now drink bottled water exclusively. However, there are good reasons to stick with tap water. Bottled water varies greatly in purity and chemical composition. Some brands are quite healthy, whereas others have been shown to contain dangerous levels of mercury, bacteria, and other harmful agents. Tap water is almost free; conversely, bottled water can cost hundreds or thousands of dollars per year. Finally, some bottled water is sourced directly from city water systems. In other words, it's merely tap water that someone has put in a bottle.

The following questions are based on this passage.

6. Which of the following is a logical conclusion based on the passage?
- A. Some city water systems are supplementing their budgets by bottling their water for sale.
 - B. The bottled water industry is not heavily regulated in terms of the quality of the water.
 - C. The bottled water boom has peaked and will gradually decline in coming years.
 - D. Bottled water prices will decrease because people will begin drinking tap water instead.
7. Which of the following is the author's intent?
- A. To provide information about the use of bottled water
 - B. To convince readers that tap water tastes better than bottled water
 - C. To persuade readers to consider tap water rather than bottled water
 - D. To illustrate the growth of the bottled water industry
8. Which of the following text structures is used in the passage?
- A. Comparison-contrast
 - B. Problem-solution
 - C. Cause-effect
 - D. Sequence
-

The Union Stock Yards (often just called The Yards) was a giant Chicago meatpacking district that existed from the mid-19th century up to the middle of the 20th century. For a time, The Yards was the busiest meat processing area in the world.

The Yards existed because it was convenient: A great number of railroad lines converged in Chicago, making it an excellent point to collect hogs and cattle, slaughter them, and distribute the meat nationwide.

The Yards became obsolete when trucks started delivering cattle, making the railroads less essential. Today, The Yards has been made into an industrial park.

The following questions are based on this passage.

9. Which of the following proposed titles best captures the main idea of the passage?
- A. A historic overview of The Yards
 - B. The daily operation of The Yards
 - C. The impact of The Yards on Chicago
 - D. Reasons for developing The Yards
10. Which of the following styles of writing is demonstrated by the last sentence of the first paragraph?
- A. Problem-solution
 - B. Sequence
 - C. Cause-effect
 - D. Description

Purchasing a Snow Blower

Snow blowers (also called snow throwers) can make the sometimes-difficult, often-unpleasant task of clearing snow from sidewalks and driveways much easier. Before making a purchase, however, it's best to learn a few snow blower basics.

Most snow blowers are gasoline powered, though some smaller models are electric. Electric models are typically not the best choice for large jobs, as they tend to lack the power of gas models. However, electric models can be very light, and they are considered more environmentally friendly. Consider an electric only for small areas or if weight is an important consideration.

The next big choice is whether to buy a one-stage or two-stage model. One-stage models are simplest: They use impellers (spinning paddles) to collect the snow and blast it out through a discharge chute. Two-stage models are slightly more complex. They use an augur (a rotating screw) to handle the job of breaking up and collecting snow and an impeller to throw the snow out through the chute. Two-stage models are typically bigger, heavier, and more powerful than single-stage models.

A final consideration is engine size. Engines are typically measured in cc (cubic centimeters); a small, single-stage snow blower might have a 140 cc engine, while a big two-stage blower might feature 200 cc or even more.

This is a lot of information to digest. However, an impatient buyer can rely on one simple rule: A bigger, heavier blower is typically a more capable machine. A small, single-stage blower is fine for clearing small areas in moderately snowy climates. But if the area is large or consistently receives extremely heavy snowfall, the rule of thumb is to buy the largest machine that space and budget permit. This will ensure that the job can be done, regardless of the circumstances.

The following questions are based on the "Purchasing a Snow Blower" passage.

11. Which of the following proposed titles best captures the general theme of this passage?
- A. Snow blowers: Turning snow removal into a breeze
 - B. Got snow? Sizing up the snow blower for your needs
 - C. Gas vs. electric: The snow blower dilemma
 - D. One stage or two? How to pick the snow blower for you

12. Which of the following is a logical conclusion based on the passage?
- A. Someone who is concerned about the environment will prefer a two-stage snow blower.
 - B. Someone who has a small area from which to remove snow will need a 200 cc engine.
 - C. Gas, two-stage snow blowers are likely to be the easiest machines to maneuver.
 - D. Electric, single-stage snow blowers are likely to be the cheapest options to buy.
13. Which of the following would be considered primary sources for this passage?
- A. Manufacturer product manuals
 - B. Product reviews on the Internet
 - C. Manufacturer warranty statements
 - D. Critical reviews in a trade journal
14. Which of the following is the author's main purpose for writing this passage?
- A. To convince consumers that a larger, more powerful snow blower is best
 - B. To clarify the difference between electric and gas-powered snow blowers
 - C. To provide information on how snow blowers are designed
 - D. To instruct consumers about considerations when buying a snow blower
15. Which of the following statements best summarizes the passage?
- A. Before making a purchase, however, it's best to learn a few snow blower basics.
 - B. A final consideration is engine size.
 - C. An impatient buyer can rely on one simple rule: A bigger, heavier blower is typically a more capable machine.
 - D. This will ensure that the job can be done, regardless of the circumstances.
16. Based on the passage, which of the following purchases makes the most sense?
- A. A person in Texas buys a one-stage snowblower.
 - B. A person in Michigan buys an electric snowblower.
 - C. A person in Georgia buys a snowblower with an augur.
 - D. A person in Maine buys a 140 cc snowblower.
17. Which of the following sentences from the passage contains an opinion?
- A. Snow blowers (also called snow throwers) can make the sometimes-difficult, often-unpleasant task of clearing snow from sidewalks and driveways much easier.
 - B. Most snow blowers are gasoline-powered, though some smaller models are electric.
 - C. Two-stage models are typically bigger, heavier, and more powerful than single-stage models.
 - D. However, an impatient buyer can rely on one simple rule: A bigger, heavier blower is typically a more capable machine.
-

While dragonflies have several traits that inspire wonder, many people believe these flying insects are pests. Dragonflies spend much of their lives around water. They not only lay their eggs in or near the water, but their larval young also develop in the water. In fact, dragonflies actually spend more of their lives as immature underwater grubs than as the mature flying creatures most people recognize. Though dragonflies possess six legs (like all insects), they are completely incapable of walking. Instead, they use their powerful wings to get around, and their legs are merely used to cling to objects.

The following questions are based on this passage.

18. Which of the following is a logical conclusion based on the passage?
- A. Most dragonflies succumb to predation before reaching maturation.
 - B. Dragonflies have stronger wings than insects living in arid environments.
 - C. A drought would likely have an adverse affect on dragonfly populations.
 - D. Dragonflies are in the same insect order as common flies.
19. Which of the following statements from the passage contains an opinion?
- A. Dragonflies have several traits that inspire wonder.
 - B. Dragonflies spend much of their lives around water.
 - C. They are completely incapable of walking.
 - D. Their legs are merely used to cling to objects.

News Reporting and the Internet

Time magazine made waves in 2006 when, instead of selecting a politician, entertainer, or activist as its Person of the Year, it selected "you." The magazine's intention was to illustrate how millions of user-posted blogs, videos, pictures, and other content had exploded onto the Internet and changed the cultural landscape. No longer were a few large media companies the gatekeepers of news, opinion, and entertainment. Instead, millions of individuals now had the power to reach a vast audience. The selection of "you" as Person of the Year highlighted the newfound power of the individual.

This change is typically seen as positive. News reporting, for example, is now undeniably more democratic, as every individual is now capable of reporting or providing news commentary. For each ray of sunshine emerging from this Internet-fueled reality, however, there is a corresponding dark cloud.

For example: Yes, there are now thousands of news-reporting blogs. But many of these are poorly written and poorly researched, and the worst of them spread dangerous misinformation.

The proliferation of free blogs and small, self-styled news sources also makes it difficult for larger, more traditional news agencies to charge for content. However, much of the factual information posted by individual bloggers and micro-agencies is plagiarized from traditional agencies. What happens if the big agencies fail or shrink to a point where their budgets can no longer support legitimate journalism? In this case, news reporting as a whole will suffer.

There are certainly disadvantages to letting a few large entities control the world's news, but those entities provide several oft-overlooked positives: For the most part they enforce standards of quality, journalism, and accountability. Is the decline of these gatekeepers truly a win for society? Not necessarily.

The following questions are based on the "News Reporting and the Internet" passage.

20. Which of the following is the author's purpose?
- A. To inform
 - B. To define
 - C. To entertain
 - D. To narrate

21. Which of the following is a logical conclusion based on the passage?
- A. Individual bloggers will adopt higher standards of journalism as they become more popular.
 - B. Large news agencies will suffer due to the rapid spread of individual bloggers.
 - C. Large news agencies will charge more for their services since they have more competition.
 - D. Individual bloggers will be able to charge high fees for their services.
22. Which of the following writing styles best describes this passage?
- A. Descriptive
 - B. Creative
 - C. Technical
 - D. Persuasive

Fun Park Pricelist

Indoor Attractions

Children's Fun Center
 Child (3 to 10 years) \$8
 Child (1 to 3 years) \$5
 Child (Under 1 year) FREE
 Adult admission \$3
 Foam Factory (Unlimited) \$6
 Rock Wall (3 climbs) \$6
 Bumper Cars \$6

Outdoor Attractions

Maze \$6
 Putt-Putt Golf \$6
 Go-Kart \$8

Tokens

Game Room \$0.25*
 Batting Cage \$1*

BEST VALUE PASSES

Eat/Play Combo - Unlimited attractions plus all-you-can-eat pizza buffet (normally \$10/person).
 Unlimited Indoor/Outdoor Attractions - \$35
 Unlimited Indoor Attractions - \$28

Super Pack Unlimited

Unlimited Indoor/Outdoor Attractions - \$29
 Unlimited Indoor Attractions - \$22

Pick Three Unlimited - Choose any three attractions for \$18.

*Game room and batting cages are not included with unlimited attractions.

The following questions are based on the price list.

23. Which of the following is the cheapest price for a parent and a 9-year-old child to both do the Fun Center, ride the bumper cars once, and play putt-putt once?
- A. \$29
 - B. \$32
 - C. \$35
 - D. \$36
24. A customer who purchases a Super Pack Unlimited indoor/outdoor pass most likely chose this option because he
- A. wants to save money on the pizza buffet.
 - B. plans on spending his time in the game room and at the batting cages.
 - C. likes to take repeated rides on the go-karts and bumper cars.
 - D. has small children who want to play all day in the Fun Center.

25.

Asepsis, 766-793
 medical, 766-781
 cleaning in, 767
 client education in, 780
 control of infection transmission and, 768-769
 disinfection and sterilization in, 767-768
 hand hygiene in, 769-770
 isolation precautions and, 774-776
 personal protective equipment and, 779-780
 surgical, 782-793
 applying sterile gloves in, 786
 client preparation in, 782
 donning and removing cap, masks, and gowns in, 787-790
 preparing sterile field in, 791-93
 surgical scrub in, 784-785

Surgical handwashing guidelines vary regarding the amount of time needed and the antiseptic that should be used for the scrub.

Which of the following pages or page ranges most likely contains the sentence above?

- A. 767
- B. 769-770
- C. 782
- D. 784-785

26.

¹lead (led) n. 1. Position at the front 2. Initiative 3. One that leads 4. Indication or clue 5. A principal role in a dramatic production

²lead (led) v. 1. To guide on a way by going in advance 2. To direct on a course 3. To direct the operations, activity, or performance 4. To suggest the answer by asking leading questions 5. To bring to a conclusion or condition 6. To guide a dance partner through the steps

A famous conductor accepted the invitation to lead the orchestra in the new season.

Which of the following dictionary entries best defines the word "lead" as used in the sentence above?

- A. Entry ¹lead, definition 1
- B. Entry ¹lead, definition 5
- C. Entry ²lead, definition 1
- D. Entry ²lead, definition 3

27. From Lawrenceville, take Highway 9 for 20 miles (about 30 minutes) until you reach the third Katetown exit (Exit 116). Turn north on Park Street and drive for 3.1 miles, past six stop lights. Take a left on 3rd Avenue and drive six blocks. The store will be on the right side of the street.

Based on the driving instructions above, which of the following statements is true?

- A. The driver should expect this trip to take about 30 minutes of driving time.
- B. There are six stoplights that the driver will encounter on 3rd Avenue.
- C. The driver will be driving west when she approaches the store.
- D. It is exactly 20 miles from Lawrenceville to the Katetown city limit.

28. Whig Committee of New York, 199
Whig National Convention of 1852,
132-33
Whig National Convention of 1856,
168
Whig Party, 9, 10, 22, 26, 55, 71,
88-90, 132, 167
agenda of, 43-44
demise of, 130, 166
1855 Illinois election and, 149
of New York, 199-200

At the convention leading up to the election of 1856, the divided and much-diminished Whigs met in Baltimore and decided to throw their support to Millard Fillmore and a platform that opposed both Republicans and Democrats.

Based on the index, which of the following pages is most likely to contain the sentence above?

- A. 43
 - B. 132
 - C. 160
 - D. 168
29. Newton's opus, *Mathematical Principles of Natural Philosophy*, dramatically altered understandings of the physical world.
- Italics are used in the sentence above to indicate a
- A. title.
 - B. scientific name.
 - C. point of emphasis.
 - D. nonessential clause.