



PLACEMENT TESTING

Information and sample test questions


About placement testing

CGTC uses the ACCUPLACER® placement test, which measures your knowledge in math, reading, and writing. The placement test does not determine if you can attend CGTC and it is not pass or fail; it simply helps us place you in the college classes that meet your skill level. The ACCUPLACER® test consists of four sections: sentence skills, reading comprehension, arithmetic, and elementary algebra.

How to prepare/study

We **strongly** encourage you to study for the ACCUPLACER® test. Although you cannot pass or fail, you must make minimum scores in each section to avoid having to take learning support classes. You may take the placement test up to two times if you would like to improve your scores. Sample questions are attached to help you prepare.

Other online resources:

- accuplacer.collegeboard.org/students: Practice questions and a web-based study app
- **Learning Express**: Practice tests (Go to www.centralgatech.edu/library and click on the  icon. Type **accuplacer** in the **Find Resources** box, then click the magnifying glass. Click the practice test that you would like to take.)
- libguides.centralgatech.edu/accuplacer: Online books with strategies and practice test questions
- www.centralgatech.edu/success: Help to deal with text anxiety (click **Text Anxiety Presentation**)

Taking the test

You can take the ACCUPLACER® test at the Testing Center in Warner Robins (A-126), Macon (J-141), or Milledgeville (A-125). The test is not timed, and students usually take an average of two to three hours to finish. A schedule of Testing Center hours is available at www.centralgatech.edu/testingcenter. We will give you scrap paper and pencils to use when taking the test. A calculator will be available on certain problems.

✓ What to bring on test day

- Valid photo ID such as a driver's license or student ID
- *Testing Center Entrance Pass* from the Admissions Office

✗ What NOT to bring on test day

- Personal belongings (including cell phones and other electronic devices)
- Calculator
- Dictionary

Minimum Scores

Associate Degree Programs

- Sentence Skills: 70
- Reading Comprehension: 64
- Arithmetic: 34
- Elementary Algebra: 57

Diploma Programs

- Sentence Skills: 60
- Reading Comprehension: 55
- Arithmetic: 34

Elementary Algebra is only required if you plan to take MATH 1013 (minimum score is 41).

Certificate Programs

- Sentence Skills: 60
- Reading Comprehension: 55
- Arithmetic: 34

Elementary Algebra is not required.



Testing Center

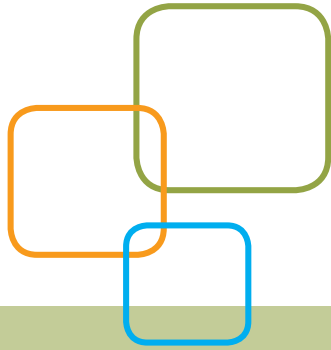
www.centralgatech.edu/testingcenter

Warner Robins: (478) 218-3390

Macon: (478) 757-2508

Milledgeville: (478) 445-2305

ACCUPLACER®



ACCUPLACER® Sample Questions for Students

Sentence Skills

In an ACCUPLACER® placement test, there are 20 Sentence Skills questions of two types.

- The first type consists of sentence-correction questions that require an understanding of sentence structure. These questions ask you to choose the most appropriate word or phrase for the underlined portion of the sentence.
- The second type consists of construction-shift questions. These questions ask that a sentence be rewritten according to the criteria shown while maintaining essentially the same meaning as the original sentence.

Within these two primary categories, the questions are also classified according to the skills being tested. Some questions deal with the logic of the sentence, others with whether or not the answer is a complete sentence, and still others with the relationship between coordination and subordination.

Sentence Skills Sample Questions

Directions for questions 1–11

Select the best version of the underlined part of the sentence. The first choice is the same as the original sentence. If you think the original sentence is best, choose the first answer.

1. Stamp collecting being a hobby that is sometimes used in the schools to teach economics and social studies.
 - A. being a hobby that is
 - B. is a hobby because it is
 - C. which is a hobby
 - D. is a hobby
2. Knocked sideways, the statue looked as if it would fall.
 - A. Knocked sideways, the statue looked
 - B. The statue was knocked sideways, looked
 - C. The statue looked knocked sideways
 - D. The statue, looking knocked sideways,
3. To walk, biking, and driving are Pat's favorite ways of getting around.
 - A. To walk, biking, and driving
 - B. Walking, biking, and driving
 - C. To walk, biking, and to drive
 - D. To walk, to bike, and also driving
4. When you cross the street in the middle of the block, this is an example of jaywalking.
 - A. When you cross the street in the middle of the block, this
 - B. You cross the street in the middle of the block, this
 - C. Crossing the street in the middle of the block
 - D. The fact that you cross the street in the middle of the block
5. Walking by the corner the other day, a child, I noticed, was watching for the light to change.
 - A. a child, I noticed, was watching
 - B. I noticed a child watching
 - C. a child was watching, I noticed,
 - D. there was, I noticed, a child watching
6. Going back to his old school, everything there looked smaller than Don remembered.
 - A. Going back to his old school,
 - B. When he went back to his old school,
 - C. To go back to his old school,
 - D. As he went back to his old school,
7. Painting, drawing and to sculpt are some of the techniques artists such as Picasso used to express themselves.
 - A. Painting, drawing and to sculpt
 - B. To paint, to draw, and sculpting
 - C. Painting, drawing, and sculpting
 - D. To paint, draw, and sculpting
8. Playing sports in school which is an activity meant to teach teamwork and leadership skills students can use later in life.
 - A. which is an activity
 - B. is an activity because it is
 - C. being an activity which is
 - D. is an activity
9. Glancing at his watch, Daniel picked up his speed.
 - A. Glancing at his watch,
 - B. He glanced at his watch, and
 - C. To glance at his watch,
 - D. He glanced at his watch,
10. For a snake, shedding their skin up to eight times a year is part of a natural process.
 - A. For a snake, shedding their skin
 - B. A snake's shedding its skin
 - C. When a snake sheds its skin
 - D. To shed its skin, for snakes

11. I was surprised by the noise peering through the window to see who was at the door.
- A. I was surprised by the noise peering
 - B. I was surprised by the noise, peered
 - C. The noise surprised me, peering
 - D. Surprised by the noise, I peered

Directions for questions 12–22

Rewrite the sentence in your head following the directions given below. Keep in mind that your new sentence should be well written and should have essentially the same meaning as the original sentence.

12. It is easy to carry solid objects without spilling them, but the same cannot be said of liquids.

Rewrite, beginning with

Unlike liquids,

The next words will be

- A. it is easy to
 - B. we can easily
 - C. solid objects can easily be
 - D. solid objects are easy to be
13. Although the sandpiper is easily frightened by noise and light, it will bravely resist any force that threatens its nest.

Rewrite, beginning with

The sandpiper is easily frightened by noise and light,

The next words will be

- A. but it will bravely resist
 - B. nevertheless bravely resisting
 - C. and it will bravely resist
 - D. even if bravely resisting
14. If he had enough strength, Todd would move the boulder.

Rewrite, beginning with

Todd cannot move the boulder

The next words will be

- A. when lacking
- B. because he
- C. although there
- D. without enough

15. The band began to play, and then the real party started.

Rewrite, beginning with

The real party started

The next words will be

- A. after the band began
 - B. and the band began
 - C. although the band began
 - D. the band beginning
16. Chris heard no unusual noises when he listened in the park.

Rewrite, beginning with

Listening in the park,

The next words will be

- A. no unusual noises could be heard
 - B. then Chris heard no unusual noises
 - C. and hearing no unusual noises
 - D. Chris heard no unusual noises
17. It is unusual to see owls during the daytime, since they are nocturnal animals.

Rewrite, beginning with

Being nocturnal animals,

The next words will be

- A. it is unusual to see owls
 - B. owls are not usually seen
 - C. owls during the daytime are
 - D. it is during the daytime that
18. If I want your opinion, I will ask for it.

Rewrite, beginning with

I won't ask for your opinion

The next words will be

- A. if I want it
 - B. when I want it
 - C. although I want it
 - D. unless I want it
19. It began to rain, and everyone at the picnic ran to the trees to take shelter.

Rewrite, beginning with

Everyone at the picnic ran to the trees to take shelter

The next words will be

- A. beginning to rain
- B. when it began to rain
- C. although it began to rain
- D. and it began to rain

20. Lucy saw an amazing sight when she witnessed her first sunrise.

Rewrite, beginning with

Witnessing her first sunrise,

The next words will be

- A. an amazing sight was seen
 - B. when Lucy saw an amazing sight
 - C. Lucy saw an amazing sight
 - D. seeing an amazing sight
21. After three hours of walking the museum, the entire family felt in need of a rest.

Rewrite, beginning with

The entire family felt in need of a rest

The next words will be

- A. walking through the museum for three hours
 - B. having walked through the museum for three hours
 - C. and they walked through the museum for three hours
 - D. despite having walked through the museum for three hours
22. The big celebration meal was over, and everyone began to feel sleepy.

Rewrite, beginning with

Everyone began to feel sleepy

The next words will be

- A. and the big celebration meal
- B. before the big celebration meal
- C. after the big celebration meal
- D. although the big celebration meal

Reading Comprehension

In an ACCUPLACER placement test, there are 20 questions of two primary types in Reading Comprehension.

- The first type of question consists of a reading passage followed by a question based on the text. Both short and long passages are provided. The reading passages can also be classified according to the kind of information processing required, including explicit statements related to the main idea, explicit statements related to a secondary idea, application, and inference.
- The second type of question, sentence relationships, presents two sentences followed by a question about the relationship between these two sentences. The question may ask, for example, if the statement in the second sentence supports that in the first, if it contradicts it, or if it repeats the same information.

Reading Comprehension Sample Questions

Directions for questions 1–9

Read the statement or passage and then choose the best answer to the question. Answer the question based on what is stated or implied in the statement or passage.

1. In the words of Thomas De Quincey, “It is notorious that the memory strengthens as you lay burdens upon it.” If, like most people, you have trouble recalling the names of those you have just met, try this: The next time you are introduced, plan to remember the names. Say to yourself, “I’ll listen carefully; I’ll repeat each person’s name to be sure I’ve got it, and I will remember.” You’ll discover how effective this technique is and probably recall those names for the rest of your life.

The quotation from De Quincey indicates that the memory

- A. always operates at peak efficiency
- B. breaks down under great strain
- C. improves if it is used often
- D. becomes unreliable if it tires

2. Unemployment was the overriding fact of life when Franklin D. Roosevelt became president of the United States on March 4, 1933. At the time, the government did not systematically collect statistics of joblessness; actually it did not start doing so until 1940. The Bureau of Labor Statistics later estimated that 12,830,000 persons were out of work in 1933, about one-fourth of a civilian labor force of more than 51 million.

Roosevelt signed the Federal Emergency Relief Act on May 12, 1933. The president selected Harry L. Hopkins, who headed the New York relief program, to run FERA. A gifted administrator, Hopkins quickly put the program into high gear. He gathered a small staff in Washington and brought the state relief organizations into the FERA system. While the agency tried to provide all the necessities, food came first. City dwellers usually got an allowance for fuel, and rent for one month was provided in case of eviction.

This passage is primarily about

- A. methods of estimating unemployment rates in the 1930s
 - B. the effect of unemployment on United States families
 - C. President Franklin D. Roosevelt's presidency
 - D. the creation of President Roosevelt's FERA program
3. With varying success, many women around the world today struggle for equal rights. Historically, women have achieved greater equality with men during periods of social adversity. The following factors initiated the greatest number of improvements for women: violent revolution, world war, and the rigors of pioneering in an undeveloped land. In all three cases, the essential element that improved the status of women was a shortage of men, which required women to perform many of society's vital tasks.

We can conclude from the information in this passage that

- A. women today are highly successful in winning equal rights
 - B. only pioneer women have been considered equal to men
 - C. historically, women have only achieved equality through force
 - D. historically, the principle of equality alone has not been enough to secure women equal rights
4. All water molecules form six-sided structures as they freeze and become snow crystals. The shape of a snow crystal is determined by temperature, vapor, and wind conditions in the upper atmosphere. A snow crystal is always symmetrical because these conditions affect all six of its sides simultaneously.

The purpose of the passage is to present

- A. a personal observation
- B. a solution to a problem
- C. factual information
- D. opposing scientific theories

5. In the words of Thomas De Quincey, "It is notorious that the memory strengthens as you lay burdens upon it." If, like most people, you have trouble recalling the names of those you have just met, try this: The next time you are introduced, plan to remember the names. Say to yourself, "I'll listen carefully; I'll repeat each person's name to be sure I have it, and I will remember." You'll discover how effective this technique is and probably recall those names for the rest of your life.

The passage suggests that people remember names best when they

- A. meet new people
 - B. are intelligent
 - C. decide to do so
 - D. are interested in people
6. Many people have owned, or have heard of, traditional "piggy banks," coin banks shaped like pigs. A logical theory about how this tradition started might be that because pigs often symbolize greed, the object is to "fatten" one's piggy bank with as much money as possible.

However, while this idea makes sense, it is not the correct origin of the term. The genesis of the piggy bank is the old English word "pygg," which was a common kind of clay hundreds of years ago in England. People used pots and jars made out of this red "pygg" clay for many different purposes in their homes. Sometimes they kept their money in one of the pots, and this was known as a pygg bank. Over the years, because "pygg" and "pig" sounded the same, glaziers began making novelty banks out of pottery in the shape of a pig as a kind of joke. These banks were given as gifts and exported to countries where people spoke other languages and where no one had ever heard of pygg clay. The tradition caught on all over the world, and today piggy banks come in all colors and are made of all kinds of materials, including plastic.

This passage is mainly about how

- A. people in different countries save their money
 - B. people in England made pottery centuries ago
 - C. a common term originated in a surprising way
 - D. an unusual custom got started
7. The wheel is considered one of the most important mechanical inventions of all time. Many technologies since the invention of the wheel have been based on its principles, and since the industrial revolution, the wheel has been a basic element of nearly every machine constructed by humankind. No one knows the exact time and place of the invention of the wheel, but its beginnings can be seen across many ancient civilizations.

The passage suggests that the wheel is an important invention because it

- A. is one of the world's oldest inventions
- B. forms the basis of so many later inventions
- C. can be traced to many ancient cultures
- D. is one the world's most famous inventions

8. Samuel Morse, best known today as the inventor of Morse Code and one of the inventors of the telegraph, was originally a prominent painter. While he was always interested in technology and studied electrical engineering in college, Morse went to Paris to learn from famous artists of his day and later painted many pictures that now hang in museums, including a portrait of former President John Adams. In 1825, Morse was in Washington, D.C., painting a portrait of the Marquis de Lafayette when a messenger arrived on horseback to tell him that his wife was gravely ill back at his home in Connecticut. The message had taken several days to reach him because of the distance. Morse rushed to his home as fast as he could, but his wife had already passed away by the time he arrived. Grief-stricken, he gave up painting and devoted the rest of his life to finding ways to transmit messages over long distances faster.

Morse left the art world and helped to invent the telegraph because he

- A. was tired of painting
- B. wanted to communicate with people far away
- C. experienced a personal tragedy in his life
- D. was fascinated by science

9. Leonardo da Vinci is not only one of the most famous artists in history, but he was also a botanist, a writer, and an inventor. Even though most of his inventions were not actually built in his lifetime, many of today's modern machines can be traced back to some of his original designs. The parachute, the military tank, the bicycle, and even the airplane were foretold in the imaginative drawings that can still be seen in the fragments of da Vinci's notebooks. Over 500 years ago, this man conceived ideas that were far ahead of his time.

The author of this passage is praising da Vinci primarily for his

- A. artistic talent
- B. intelligence
- C. foresight
- D. fame

Directions for questions 10–18

For the questions that follow, two underlined sentences are followed by a question or statement. Read the sentences, then choose the best answer to the question or the best completion of the statement.

10. The Midwest is experiencing its worst drought in 15 years.

Corn and soybean prices are expected to be very high this year.

What does the second sentence do?

- A. It restates the idea found in the first.
- B. It states an effect.
- C. It gives an example.
- D. It analyzes the statement made in the first.

11. Social studies classes focus on the complexity of our social environment.

The subject combines the study of history and the social sciences and promotes skills in citizenship.

What does the second sentence do?

- A. It expands on the first sentence.
- B. It makes a contrast.
- C. It proposes a solution.
- D. It states an effect.

12. Knowledge of another language fosters greater awareness of cultural diversity among the peoples of the world.

Individuals who have foreign language skills can appreciate more readily other peoples' values and ways of life.

How are the two sentences related?

- A. They contradict each other.
- B. They present problems and solutions.
- C. They establish a contrast.
- D. They repeat the same idea.

13. While most people think of dogs as pets, some dogs are bred and trained specifically for certain types of work.

The bloodhound's acute sense of smell and willing personality make it ideal for tracking lost objects or people.

What does the second sentence do?

- A. It makes a contrast.
- B. It restates an idea found in the first.
- C. It states an effect.
- D. It gives an example.

14. Paris, France, is a city that has long been known as a center of artistic and cultural expression.

In the 1920s, Paris was home to many famous artists and writers from around the world, such as Picasso and Hemingway.

What does the second sentence do?

- A. It reinforces the first.
- B. It states an effect.
- C. It draws a conclusion.
- D. It provides a contrast.

15. Studies show that the prevalence of fast-food restaurants corresponds with the rates of obesity in both children and adults.

Obesity is now on the rise in countries where fast-food restaurants are becoming more common.

How do the two sentences relate?

- A. They express roughly the same idea.
- B. They contradict each other.
- C. They present problems and solutions.
- D. They establish a contrast.

16. Compared with the rest of the country, North Dakota has a thriving economy, making it a place where more people want to live.

With temperatures in January ranging from 2 to 17 degrees Fahrenheit, winters in North Dakota are viewed by some prospective residents as inhospitable.

What does the second sentence do?

- A. It reinforces the first.
 - B. It explains what is stated in the first.
 - C. It contradicts the first.
 - D. It analyzes a statement made in the first.
17. Some stores are testing a new checkout system that allows shoppers to use their mobile phones to scan items as they walk through stores and pay at self-service kiosks, skipping the cashiers' lines.

The new mobile checkout system reduces long lines and customer wait times in stores.

What does the second sentence do?

- A. It expands on the first.
 - B. It states an effect.
 - C. It contrasts with the first.
 - D. It gives an example.
18. According to the American Sleep Disorders Association, the average teenager needs around 9.5 hours of sleep per night, possibly because critical growth hormones are released during sleep.

The average adult requires between six and eight hours of sleep per night for optimal health and productivity.

How do the two sentences relate?

- A. They establish a contrast.
- B. They contradict each other.
- C. They reinforce each other.
- D. They provide a problem and solution.

Arithmetic

There are 17 questions administered on the Arithmetic test, divided into the following content areas:

- Operations with whole numbers and fractions. Topics include addition, subtraction, multiplication, division, recognizing equivalent fractions and mixed numbers, and estimating.
- Operations with decimals and percents. Topics include addition, subtraction, multiplication, and division with decimals; percent problems; recognition of decimals; percent equivalencies; and estimating.
- Applications and problem solving. Topics include rate, percent and measurement problems; simple geometry problems; and distribution of a quantity into its fractional parts.

Arithmetic Sample Questions

For each of the questions below, choose the best answer from the four choices given. You may use the paper you received as scratch paper.

1. $2.75 + 0.003 + 0.158 =$
 - A. 0.436
 - B. 2.911
 - C. 2.938
 - D. 4.36
2. $7.86 \times 4.6 =$
 - A. 36.156
 - B. 36.216
 - C. 351.56
 - D. 361.56
3. $\frac{7}{20} =$
 - A. 0.035
 - B. 0.35
 - C. 0.858
 - D. 3.5
4. Which of the following is the least?
 - A. 0.105
 - B. 0.501
 - C. 0.015
 - D. 0.15
5. All of the following are ways to write 25 percent of N EXCEPT
 - A. $(0.25)N$
 - B. $\frac{25}{100} N$
 - C. $\frac{1}{4} N$
 - D. $25N$
6. Which of the following is closest to 27.8×9.6 ?
 - A. 280
 - B. 300
 - C. 2,800
 - D. 3,000
7. A soccer team played 160 games and won 65 percent of them. How many games did the team win?
 - A. 94
 - B. 104
 - C. 114
 - D. 124

8. There are 3 people who work full-time and are to work together on a project, but their total time on the project is to be equivalent to that of only one person working full-time. If one of the people is budgeted for $\frac{1}{2}$ of his time to the project and a second person for $\frac{1}{3}$ of her time, what part of the third worker's time should be budgeted to this project?
- A. $\frac{1}{8}$
 B. $\frac{1}{6}$
 C. $\frac{1}{3}$
 D. $\frac{3}{5}$
9. 32 is 40% of what number?
- A. 12.8
 B. 128
 C. 80
 D. 800
10. $3\frac{1}{3} - 2\frac{2}{5} =$
- A. $\frac{1}{15}$
 B. $\frac{14}{15}$
 C. $1\frac{1}{15}$
 D. $1\frac{1}{2}$
11. $2\frac{1}{2} + 4\frac{2}{3} =$
- A. $6\frac{1}{6}$
 B. $6\frac{5}{6}$
 C. $7\frac{1}{6}$
 D. $7\frac{5}{6}$
12. What is $\frac{1,345}{99}$ rounded to the nearest integer?
- A. 12
 B. 13
 C. 14
 D. 15
13. Three of four numbers have a sum of 22. If the average of the four numbers is 8, what is the fourth number?
- A. 4
 B. 6
 C. 8
 D. 10
14. $46.2 \times 10^{-2} =$
- A. 0.0462
 B. 0.462
 C. 4.62
 D. 462
15. If $\frac{3}{2} \div \frac{1}{4} = n$, then n is between
- A. 1 and 3
 B. 3 and 5
 C. 5 and 7
 D. 7 and 9
16. What is 12% of 120?
- A. 10
 B. 14.4
 C. 18.4
 D. 28.8
17. A box in a college bookstore contains books, and each book in the box is a history book, an English book or a science book. If $\frac{1}{3}$ of these books are history books and $\frac{1}{6}$ are English books, what fraction of the books are science books?
- A. $\frac{1}{3}$
 B. $\frac{1}{2}$
 C. $\frac{2}{3}$
 D. $\frac{3}{4}$
18. The measures of two angles of a triangle are 35° and 45° . What is the measure of the third angle of the triangle?
- A. 95°
 B. 100°
 C. 105°
 D. 110°
19. Erica bought $3\frac{1}{2}$ yards of fabric. If she uses $\frac{2}{3}$ of the fabric to make a curtain, how much will she have left?
- A. $\frac{1}{6}$ yard
 B. $\frac{1}{3}$ yard
 C. $1\frac{1}{6}$ yards
 D. $2\frac{1}{3}$ yards
20. Jen wants to tile the floor of her kitchen. The floor is rectangular and measures 12 feet by 8 feet. If it costs \$2.50 per square foot for the materials, what is the total cost of the materials for tiling the kitchen floor?
- A. \$160
 B. \$200
 C. \$220
 D. \$240

Elementary Algebra

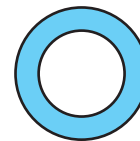
There are 12 questions administered on the Elementary Algebra test, divided into the following content areas:

- Numbers and quantities. Topics include integers and rational numbers, computation with integers and negative rationals, absolute value, and ordering.
- Algebraic expressions. Topics include evaluation of simple formulas and expressions, adding and subtracting monomials and polynomials, multiplying and dividing monomials and polynomials, evaluating positive rational roots and exponents, simplifying algebraic fractions, and factoring.
- Problem solving. Topics include translating written phrases into algebraic expressions, solving linear equations and inequalities, quadratic equations (by factoring), and verbal problems presented in an algebraic context.

Elementary Algebra Sample Questions

For each of the questions below, choose the best answer from the four choices given. You may use the paper you received as scratch paper.

1. If A represents the number of apples purchased at 15 cents each, and B represents the number of bananas purchased at 10 cents each, which of the following represents the total value of the purchases in cents?
 - A. $A + B$
 - B. $25(A + B)$
 - C. $10A + 15B$
 - D. $15A + 10B$
2. $\sqrt{2} \times \sqrt{15} = ?$
 - A. $\sqrt{17}$
 - B. $\sqrt{30}$
 - C. 17
 - D. 30
3. What is the value of the expression $2x^2 + 3xy - 4y^2$ when $x = 2$ and $y = -4$?
 - A. -80
 - B. -32
 - C. 32
 - D. 80
4. In the figure below, both circles have the same center, and the radius of the larger circle is R . If the radius of the smaller circle is 3 units less than R , which of the following represents the area of the shaded region?



- A. πR^2
 - B. $\pi(R - 3)^2$
 - C. $\pi R^2 - \pi \times 3^2$
 - D. $\pi R^2 - \pi(R - 3)^2$
5. $(3x - 2y)^2 =$
 - A. $9x^2 - 4y^2$
 - B. $9x^2 + 4y^2$
 - C. $9x^2 - 6xy + 4y^2$
 - D. $9x^2 - 12xy + 4y^2$

6. If $x > 2$, then $\frac{x^2 - x - 6}{x^2 - 4} =$

- A. $\frac{x-3}{2}$
- B. $\frac{x-3}{x-2}$
- C. $\frac{x-3}{x+2}$
- D. $\frac{3}{2}$

7. $\frac{4 - (-6)}{-5} =$

- A. -2
- B. $-\frac{2}{5}$
- C. $\frac{2}{5}$
- D. 2

8. If $2x - 3(x + 4) = -5$, then $x =$

- A. -17
- B. -7
- C. 7
- D. 17

9. $-3(5 - 6) - 4(2 - 3) =$

- A. -7
- B. -1
- C. 1
- D. 7

10. $20 - \frac{4}{5}x \geq 16$

Which of the following inequalities is equivalent to the inequality shown above?

- A. $x \leq 5$
- B. $x \geq 5$
- C. $x \leq \frac{65}{2}$
- D. $x \geq \frac{65}{2}$

11. Which of the following lists of numbers is ordered from least to greatest?

- A. $-\frac{1}{3}, -\frac{3}{5}, \frac{2}{3}, \frac{3}{5}$
- B. $-\frac{3}{5}, -\frac{1}{3}, \frac{3}{5}, \frac{2}{3}$
- C. $-\frac{1}{3}, -\frac{3}{5}, \frac{3}{5}, \frac{2}{3}$
- D. $-\frac{3}{5}, -\frac{1}{3}, \frac{2}{3}, \frac{3}{5}$

12. If $5t + 2 = 6$, then $t =$

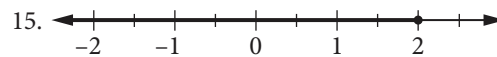
- A. 8
- B. $\frac{5}{4}$
- C. $\frac{4}{5}$
- D. -8

13. For which of the following equations are $x = 5$ and $x = -5$ both solutions?

- A. $x^2 + 25 = 0$
- B. $x^2 - 25 = 0$
- C. $x^2 + 10x - 25 = 0$
- D. $x^2 - 5x - 25 = 0$

14. If $x \neq 0$, then $\frac{u}{x} + \frac{5u}{x} - \frac{u}{5x} =$

- A. $\frac{7x}{5u}$
- B. $\frac{5u}{7x}$
- C. $\frac{29u}{5x}$
- D. $\frac{31u}{5x}$



The solution set of which of the following inequalities is graphed on the number line above?

- A. $2x - 4 \geq -3$
- B. $2x + 5 \leq 6$
- C. $3x - 1 \leq 5$
- D. $4x - 1 \geq 7$

16. $2x + 6y = 5$
 $x + 3y = 2$

How many solutions (x, y) are there to the system of equations above?

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

17. Which of the following is a factor of both $x^2 - x - 6$ and $x^2 - 5x + 6$?

- A. $x - 3$
- B. $x - 2$
- C. $x + 2$
- D. $x + 3$

18. $\frac{10x^6 + 8x^4}{2x^2} =$

- A. $9x^{12}$
- B. $14x^4$
- C. $5x^4 + 4x^2$
- D. $5x^3 + 2x^2$

19. A rectangular yard has area 96 square feet. If the width of the yard is 4 feet less than the length, what is the perimeter, in feet, of the yard?

- A. 40
- B. 44
- C. 48
- D. 52

20. On Monday, it took Helen 3 hours to do a page of science homework exercises. The next day she did the same number of exercises in 2 hours. If her average rate on Monday was p exercises per hour, what was her average rate the next day, in terms of p ?

- A. $2(p + 1)$ exercises per hour
- B. $3(p - 1)$ exercises per hour
- C. $\frac{2}{3}p$ exercises per hour
- D. $\frac{3}{2}p$ exercises per hour

Answer Key

SENTENCE SKILLS	
QUESTION NUMBER	CORRECT ANSWER
1	D
2	A
3	B
4	C
5	B
6	B
7	C
8	D
9	A
10	B
11	D
12	C
13	A
14	B
15	A
16	D
17	B
18	D
19	B
20	C
21	B
22	C

READING COMPREHENSION	
QUESTION NUMBER	CORRECT ANSWER
1	C
2	D
3	D
4	C
5	C
6	C
7	B
8	C
9	C
10	B
11	A
12	D
13	D
14	A
15	A
16	C
17	B
18	A

Answer Key

ARITHMETIC	
QUESTION NUMBER	CORRECT ANSWER
1	B
2	A
3	B
4	C
5	D
6	A
7	B
8	B
9	C
10	B
11	C
12	C
13	D
14	B
15	C
16	B
17	B
18	B
19	C
20	D

ELEMENTARY ALGEBRA	
QUESTION NUMBER	CORRECT ANSWER
1	D
2	B
3	A
4	D
5	D
6	B
7	A
8	B
9	D
10	A
11	B
12	C
13	B
14	C
15	C
16	A
17	A
18	C
19	A
20	D