



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, click **Library Resources**, click **Learning Express**, then click **Go to Learning Express**. 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: Workshops to help to deal with text anxiety, getting started in college, and more

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

(To avoid taking learning support classes)

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 required only 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.

Some programs have different entrance requirements. For more information, contact the Admissions Office at admissionsoffice@centralgatech.edu.



Testing Center

www.centralgatech.edu/testingcenter

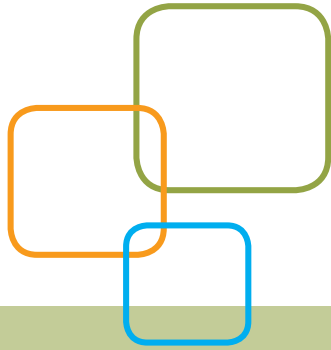
Warner Robins: (478) 218-3390

Macon: (478) 757-2508

Milledgeville: (478) 445-2305

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Sample Questions for Students

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

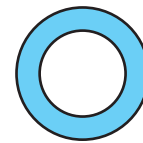
There are 12 questions administered on the Elementary Algebra test, divided into the following content areas:

- 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 $t =$

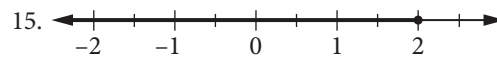
- A. 8
- B. $\frac{5}{4}$
- C. $\frac{4}{5}$
- D. -8

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

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