

The 41<sup>st</sup>  
Annual

# ALABAMA

## STATEWIDE MATHEMATICS CONTEST



sponsored by

ALABAMA COUNCIL OF TEACHERS OF MATHEMATICS  
and the

ALABAMA ASSOCIATION OF COLLEGE TEACHERS OF MATHEMATICS

**Written Round:** February 25 - 27, 2022

Again this year the written exam will be proctored at your own school. Packets will be mailed to each participating school, and the test can be proctored anytime on February 25, 26, or 27. More details are below. Copies of previous written tests and ciphering questions can be obtained from the contest web site, [www.una.edu/math/mathcontest](http://www.una.edu/math/mathcontest)

### HISTORY AND PURPOSE.

In 1979, ACTM and AACTM recommended that a mathematics activity be designed to appeal to a wider segment of good mathematics students than the existing competitions. The two organizations agreed to jointly sponsor a statewide contest each year as one of their major projects. The major purposes of the contest are to stimulate interest in mathematics among all students and to recognize the achievements of outstanding mathematics programs and students.

### CONTEST ELIGIBILITY.

There are three written tests: Geometry, Algebra II, and Comprehensive. Any student may take the Comprehensive test, but the test is most appropriate for students who are enrolled in, or have completed, Precalculus. To take the Geometry test a student must be enrolled in either Geometry, or Algebra I but cannot have taken any further mathematics courses. As such, a student may take the Geometry test up to twice, and any student can take the Comprehensive test, with no limit on the number of years attempted. Only students enrolled in Algebra II may take the Algebra II test. No test contains any questions from calculus.

Special Rule for block-scheduled schools: Students who are currently enrolled in mathematics courses must follow the rules given above. Students who are not currently enrolled in mathematics courses may compete as if they were currently enrolled in their most recent mathematics course, provided they took that class during the current academic year.

Schools are classified according to enrollment and compete in one of three divisions. All Academic Magnet Schools must compete in Division I. Homeschooling groups will be considered on a case-by-case basis.

Division 1: 7A, Magnet Schools, Private Schools offering a Math Team course  
or any course beyond calculus

Division 2: 5A and 6A, All other Private Schools, Middle Schools averaging  
225 students or more per grade level

Division 3: 1A, 2A, 3A and 4A, Middle Schools averaging less than 225 students  
per grade level

A school may field teams for one, two, or all three tests. There is no minimum number of students required to field a team for a test. For each test, a school's team score is the sum of its four highest individual scores.

#### REGISTRATION OF SCHOOLS.

Each school desiring to enter students in the contest should designate one person as the official Team Sponsor. This Team Sponsor shall be responsible for completing the online registration form for the contest, arranging payment for the test, and conducting all necessary correspondence. The mailing address for the registration check is listed below.

Registration will begin at the beginning of December. Registration will be online this year, but checks will still be mailed. **Registration will close on Friday, January 28, and all registration checks must be postmarked by Friday, February 4.** .

#### PARTICIPATION FEE.

A school fee of \$10.00 plus \$5.00 per student will be charged to each participating school. Payment must be postmarked by February 4. Math Team Sponsors are urged to seek payment from school funds.

A copy of the registration form will be emailed to you, and you should print it out and mail it with your check. The mailing address is below. Please make sure your school name appears somewhere on your check.

Dr. Mosisa Aga  
Auburn University Montgomery  
P O Box 244023  
Montgomery, AL 36124-4023

Please make checks payable to: ALABAMA COUNCIL OF TEACHERS OF MATHEMATICS.

#### TESTING AND GRADING PROCEDURES.

Each school may test anytime on February 25, 26, or 27. However, each school must designate ONE two hour testing window, and all participating students must test during that time. You may test all students in the same room, or separate rooms, as long as they begin at the same time, and each room has at least one designated proctor. Students in quarantine or who are otherwise unable to attend in person will not be eligible to participate this year, though you are encouraged to share the test with them on or after February 28.

- Each student should bring at least two (2) sharpened No. 2 pencils. Calculators are NOT allowed. Smart watches MUST be removed. You will be provided with a script to read at the beginning.
- Proctors should provide one or two sheets of blank copy paper to students for scratch work. (Students can use their own scratch paper so long as the proctor verifies that it is blank.)
- Because schools have until February 27 to test, proctors MUST collect all tests and scratch work from the students, in addition to the scantron. You may return the testing materials to the student on Monday, February 28. An additional copy of the test will be provided for each Team Sponsor.

Each school will receive an envelope containing testing materials. It will include

- $n$  copies of the tests that you registered for
- Scantron forms for each student
- Unstapled, white copies of the tests
  - We understand that some of your students may get sick/quarantined and be unable to participate, leaving you scrambling for a replacement. If the replacement you find needs to take a different test than the original student, you can use these unstapled versions to make a copy of that test to give to them.
- A proctor script to read aloud when you are beginning the test.
- A pre-paid envelope to return the scantrons to us. It will be prepaid for **only** the scantrons, so please make sure not to return any extra tests, or the unstapled test master copies.

You will also receive an email with a spreadsheet containing your student ID codes. As some students may need to be swapped out, we are not asking for names to be sent to us ahead of time. Rather, we'll send you a spreadsheet with codes for the number of tests you registered for, along with a few extra codes, in case, say, a comprehensive student gets replaced with a geometry student. Once you've finalized the testing roster, please enter the names on the spreadsheet. **Before you mail the scantrons back, please verify that each student entered their ID code correctly on the scantron**, and that it matches what is on your spreadsheet. This will save us a tremendous amount of time! The names on your spreadsheet will be what name that is printed on any award that is earned, so consider consulting your students about what name you put down.

#### INCLEMENT WEATHER POLICY.

Any school that is unable to convene for their chosen time may reschedule provided it is still in the February 25-27 window. Please keep the weather in mind when scheduling your testing time, as we all know how February in Alabama can be. In the event of a large statewide snow storm, the test may be rescheduled for the following week/weekend at the director's discretion. Any announcements would be sent to the sponsor email provided.

#### THE TESTS.

Each test consists of 50 multiple choice questions, to which five multiple choice answers are given. In most cases, (E) will be none of these, and should be considered a legitimate, possible answer choice. Students will bubble their selections on the answer sheet provided. All answers must be transferred to the answer sheet. Additionally, students will bubble their test version, and their assigned ID code on the answer sheet. The answer sheets will be computer scored during the following week at The University of Alabama at Birmingham.

#### RESULTS.

Detailed results of the contest will be compiled and emailed to each participating school following the competition. A summary of the results will be on the contest web site.

#### COMPREHENSIVE AWARDS.

For outstanding performance in the contest, awards will be given in each Division as follows:

1. In both the first and second round: trophies<sup>†</sup> to the top four teams, plaques<sup>†</sup> to the next four teams, and certificates to other teams in the top 50% statewide.
2. Trophies<sup>†</sup> to all District winners.\*

3. Certificates to all teams participating in the second round.
4. Trophies<sup>†</sup> to the individuals who place first, second, and third in the state in the first round.
5. In each District, certificates to individuals finishing first, second, or third and to individuals finishing in the top 25% statewide.

#### ALGEBRA II WITH TRIGONOMETRY AND GEOMETRY AWARDS

For outstanding performance in the contest, awards will be given in each Division as follows:

1. Trophies<sup>†</sup> to the top three teams, plaques to the next three teams, and certificates to other teams in the top 50% statewide.
2. Trophies<sup>†</sup> to all District winners.\*
3. Trophies<sup>†</sup> to the individuals who place first, second, and third in the state.
4. In each District, certificates to individuals finishing first, second, or third and to individuals finishing in the top 25% statewide.

\*A team which is the only team in its Division and District must be in the top half of its Division to be declared the District winner.

<sup>†</sup>Trophies may be smaller than usual years, or replaced with plaques or other awards.

FOR MORE INFORMATION See the contest web site ([www.una.edu/math/mathcontest](http://www.una.edu/math/mathcontest)) or email your question to [alstatemathcontest@gmail.com](mailto:alstatemathcontest@gmail.com).