
Sixty-Sixth Annual
STATEWIDE
HIGH SCHOOL
MATHEMATICS CONTEST
TUESDAY, APRIL 2, 2024



Sponsored by the
TENNESSEE MATHEMATICS
TEACHERS' ASSOCIATION

(brochure revised February 20, 2024—change of contact for Freed-Hardeman University)

HISTORY AND PURPOSE OF CONTEST

Prior to 1957, several independent (and limited) contests in high school mathematics were held in various localities in Tennessee. The Tennessee Mathematics Teachers' Association effected a merger of these contests in 1957 and began to sponsor a contest open to all public, private, and parochial high schools in Tennessee. This association is happy to conduct a statewide contest each year as one of its major projects.

The major purposes of the contest are (1) to stimulate interest in mathematics by encouraging more students to include mathematics in their programs of study and, thereby, to raise the level of mathematics competence in Tennessee; and (2) to honor those students who are outstanding in their knowledge of mathematics through appropriate public recognition in their schools and their communities.

The contest is conducted as an academic festival where students represent their school in competition with others at a nearby Testing Center. These specially selected school representatives compete with others for preeminence in their region and in the state.

ENROLLMENT OF SCHOOLS

Each school desiring to enter students in the contest should designate one person (principal or teacher of mathematics) as official Contest Supervisor. This Contest Supervisor shall be responsible for completing the official School Enrollment form and for conducting all necessary correspondence with the Center Chair.

The school enrollment form appears as a separate section of this announcement. It should be filled in completely and mailed to the appropriate Center Chair by **Monday, March 18, 2024**. To be assured of a place in the Contest, the application must be in by this deadline.

Contest Supervisors are urged to submit School Enrollment Forms as soon as possible to permit orderly organization and administration of the contest.

CONTEST ELIGIBILITY

There are six divisions in the Contest:	
<i>Algebra I / Integrated I</i>	<i>Statistics</i>
<i>Geometry / Integrated II</i>	<i>Pre-calculus</i>
<i>Algebra II / Integrated III</i>	<i>Calculus and Advanced Topics</i>
A student may compete in only <u>one</u> division.	

The contest is open only to students who have been enrolled in a mathematics course during the current academic year. Each contestant must compete in the division corresponding to the course in which they are enrolled at the time of the exam. Contestants not currently enrolled in a course (due to block scheduling, for example) must compete in the division corresponding to the course in which they were most recently enrolled.

A student may not take the Pre-calculus exam after having taken the Calculus and Advanced Topics exam. The Calculus and Advanced Topics exam may be repeated (unlimited). No other test may be repeated.

Integrated Core I students are eligible to take the Algebra I exam.

Integrated Core II students are eligible to take the Geometry exam.

Integrated Core III students are eligible to take the Algebra II exam.

Junior high and middle school students are eligible to compete if they satisfy the enrollment requirement.

The contest supervisor must contact the local Center Chair prior to registration for rulings on eligibility. Additional details are available at the FAQ page at <https://tmta.wildapricot.org/>.

SELECTION OF CONTESTANTS

The method of selection and preparation of contestants is left to each individual school. Each Contest Supervisor is urged, however, to conduct special examinations for the selection of the contestants who will represent the school at a Testing Center. These exams should be open to all eligible students who wish to compete. This procedure greatly increases the stimulating effects sought as one objective of the Contest.

CONTESTANT FEES

A fee of **\$6.00** will be charged for each contestant who competes at a Testing Center. (Note that this is a slight increase from last year.)

PAYMENT OF THE ENTRANCE FEES WILL BE DUE THE DAY OF THE CONTEST, TUESDAY, APRIL 2, 2024, AT THE TESTING CENTER.

Please make checks payable to TMTA.

Contest Supervisors are requested to seek payment of fees from general school funds. Payment of entrance fees to the Center Chair in advance is encouraged where feasible.

NUMBER OF CONTESTANTS

Maximum Number of Contestants Permitted at Testing Centers						
Number Enrolled in Course	Algebra I or Int I	Geometry or Int II	Algebra II or Int III	Statistics	Pre-calculus	Calculus & Adv Topics
1-25	4	4	4	4	4	6
26-50	4	4	4	5	5	8
51-75	5	5	5	6	6	9
76-100	5	5	5	7	7	11
101-125	6	6	6	8	8	12
126-150	6	6	6	9	9	14
151-175	7	7	7	10	10	15
176-200	7	7	7	11	11	17
201-250	8	8	8	11	11	17
251-300	9	9	9	11	11	17
301-350	10	10	10	11	11	17
351-400	11	11	11	11	11	17
401-450+	12	12	12	11	11	17

TESTING AND GRADING PROCEDURE

Each school participating in the contest will be assigned by the Regional Chair to a Testing Center where its students will compete. The Contest Supervisor will be notified as to the time and particular room at the Testing Center where each contestant is to report.

Schools and/or individuals may compete only at the Testing Center to which assigned.

The Contest will be conducted as one continuous test of 80 minutes.

No contestant may bring any material into the testing room other than a pencil, eraser, compass, ruler, and calculator. Calculators are allowed in all divisions in the contest. Any calculator capable of symbolic manipulation is prohibited. Any calculator allowed on the ACT Math exam is acceptable. Refer to the ACT calculator rules for more details on specific models.

Each test will consist of problems or questions to which five multiple choice answers are given. Each contestant will be allowed to keep their copy of the examination booklet without charge. Additional copies are available for **\$2.00** each while supplies last.

The Chair of each Testing Center will supervise the grading of papers of all students competing at the Center and will forward the Regional Chair the papers of the **top ten contestants** in each division.

The Regional Chair will supervise the re-grading of all papers received from the Testing Centers in the region and will forward to the Examinations Director the papers of the **top ten contestants** in each division from the region.

The Examinations Director will supervise the re-grading of all papers received from the Regional Chairs.

The Contest Committee is the final judge of all grading and awards. Decisions of the Committee are final.

Scoring Formula: $\text{Score} = 4 \times (\text{Number Right}) - (\text{Number Wrong}) + 40$.

New rule: If there is a tie for first, second, or third place in a particular exam, then graders will use both answer sheets and work backwards from the last problem to find the first answer which one of them answered correctly and which the other one did not. The person with the correct answer on that problem will be the winner of that place.

TESTING AREAS

(Contact information is on pages 7-9.)

EAST TENNESSEE

Regional Chair – Kim Nunn, Northeast State Community College, Blountville, TN

Email: kpnunn@northeaststate.edu

Host College and Location

Chair

Northeast State Community College, Blountville	Teresa Gardner
Carson-Newman University, Jefferson City	Michael Lugo
Roane State Community College, Harriman.....	Dani Lane
Roane State Community College, Oak Ridge.....	Stefanie Holmes
Maryville College, Maryville	Dan Ross
Tennessee Wesleyan University, Athens	David Ashe
University of Tennessee, Chattanooga.....	Meg Kiessling
Tusculum College, Greeneville	Wei Hu
Pellissippi State Community College (Hardin Valley), Knoxville	Ellen Matheny

MIDDLE TENNESSEE

Regional Chair – Sarah Bleiler-Baxter, Middle Tennessee State University, Murfreesboro

Email: Sarah.Bleiler@mtsu.edu

Host College and Location

Chair

Volunteer State Community College, Gallatin	Shelley Fenton
Lipscomb University, Nashville	Amy Nelson
Middle TN State University, Murfreesboro	Dovie Kimmins
The University of Tennessee Southern, Pulaski	Jennifer Aust
Austin Peay State University, Clarksville	Jennifer Yantz
Tennessee Technological University, Cookeville.....	Stacy Brown
Cumberland University.....	Laurie Dishman

WEST TENNESSEE

Regional Chair – Bryan Sandor, University of Tennessee at Martin, Martin, TN

Email: bsandor@utm.edu

Host College and Location

Chair

Dyersburg State Community College, Dyersburg	Devalyn Reynolds
Freed-Hardeman University, Henderson	Timberly Singleton
University of Tennessee at Martin, Martin	Robert Niedzialomski
University of Memphis, Memphis	Alistair Windsor
Southwest Tennessee Community College (Macon Cove campus), Memphis	Mark Moses

Contest Committee

Statewide Contest Coordinator – Daryl Stephens, East Tennessee State University, Johnson City, TN

Examinations Director – Brian Wagner, University of Tennessee, Martin, TN

AWARDS

For superior performances, awards shall be presented as follows:

1. **Certificates of Participation** - To be given to each person who takes part in the contest.
2. **Certificates of Merit** - To be awarded to first, second, and third place winners in each testing center in each division of the contest.
3. **Certificates of Distinction** - To be awarded to first, second, and third place winners in each region in each division of the contest.
4. **Certificates of Achievement** - To be awarded to the remainder of the top ten winners in each region in each division of the contest.
5. **Engraved Plaques** - To be awarded to the first, second, and third place winners in the final state competition in each division of the contest.
6. **Certificates of Excellence** - To be awarded to the remainder of the top ten winners in the final state competition in each division of the contest.
7. **Engraved Plaques** - To be awarded to the schools of the first, second, and third place winners in the final state competition in each division of the competition.
8. A **\$125.00 check** will be awarded to the first-place winners in the Statistics, Pre-calculus, and Calculus and Advanced Topics Divisions.
9. A **\$100.00 check** will be awarded to the first-place winners in the Algebra I / Integrated I, Geometry / Integrated II, and Algebra II / Integrated III Divisions.
10. In case of a tie, a final determination of awards will be made by the Contest Committee.

PRESENTATION OF AWARDS


It shall be the responsibility of each Center Chair to see that the appropriate awards are presented to the winners at their center and to the regional winners from their center. All winners should be recognized on some special occasion at the winner's school such as honors day.

CONTEST RESULTS

State Contest results will be published annually in the fall edition of the **TMTA Bulletin** and posted on the TMTA website at <https://tmta.wildapricot.org/>. Persons desiring to receive these results are encouraged to become a member of TMTA by mailing \$10.00 annual dues to: **Stephanie Kolitsch**, UT Martin, 309 Administration Building, Martin, TN 38238.

2025 TENTATIVE CONTEST DATE
Tuesday, April 8, 2025

EAST TENNESSEE REGION

<p>Teresa Gardner Northeast State Community College Mathematics Department 2425 Highway 75 Blountville, TN 37617 (423) 354-2459 tlgardner@NortheastState.edu</p>	<p>Michael Lugo Carson Newman University Mathematics 1646 Russell Avenue Jefferson City, TN 37760 (865) 471-3262 mlugo@cn.edu</p>
<p>Dani Layne Roane State Community College – Harriman Campus 276 Patton Lane Harriman, TN 37748 (865) 354-3000 ext. 4282 layned@roanestate.edu</p>	<p>Stefanie Holmes Roane State Community College – Oak Ridge Campus 701 Briarcliff Avenue Oak Ridge, TN 37830 (865) 354-3000 ext. 4208 holmessl@roanestate.edu</p>
<p>David J. Ashe Tennessee Wesleyan University 204 East College Street Athens, TN 37303 (423) 252-1362 dashe@tnwesleyan.edu</p>	<p>Wei Hu Tusculum University 60 Shiloh Road Greeneville, TN 37745 (423) 636-7300 Ext. 5144 whu@tusculum.edu</p>
<p>Dan Ross Maryville College Mathematics Department 502 E. Lamar Alexander Pkwy. Maryville, TN 37804-5907 (865) 981-8165 dan.ross@maryvillecollege.edu</p>	<p>Ellen Matheny Pellissippi State Community College Mathematics Department 10915 Hardin Valley Road P.O. Box 22990 Knoxville, TN 37933-0990 865-438-7444 ebmatheny@pstcc.edu</p>
<p>Meg Kiessling University of Tennessee, Chattanooga 304A Lupton Building Dept 6956 615 McCallie Ave Chattanooga, TN 37403 423-425-4545 Meg-Kiessling@utc.edu</p>	

MIDDLE TENNESSEE REGION

Amy Nelson
 Lipscomb University
 Department of Mathematics
 One University Park Dr.
 Nashville, TN 37204
 (615) 966-6488
amy.nelson@lipscomb.edu

Jennifer Yantz
 Austin Peay State University
 Mathematics
 AP Box 4626
 Clarksville, TN 37044
 (931) 221-1607
yantzi@apsu.edu

Jennifer K. Aust
 The University of Tennessee Southern
 433 West Madison Street
 Pulaski, TN 38478
 (931) 363-9851
jaust@utsouthern.edu

Laurie Dishman
 Cumberland University
 Mathematics - Labry Hall #236
 1 Cumberland Square
 Lebanon, TN 37087
 (615) 547-1278
ldishman@cumberland.edu

Dovie Kimmins
 Middle Tennessee State University
 Department of Mathematical Sciences
 P.O. Box 34
 Murfreesboro, TN 37132
 (615) 898-2669
Dovie.Kimmins@mtsu.edu
Catherine.burnette@mtsu.edu
Carmen.bucka@mtsu.edu

Shelley Fenton
 Volunteer State Community College
 Math & Science Division
 Wallace 101F
 1480 Nashville Pike
 Gallatin, TN 37066
 (615) 230-3248
Shelley.fenton@volstate.edu

Stacy Brown
 Tennessee Tech University
 Department of Mathematics
 110 University Drive, BR 217
 Box 5054
 Cookeville, TN 38505
 (931) 372-3441
slbrown@tntech.edu



WEST TENNESSEE REGION

Devalyn Reynolds

Dyersburg State Community College
1510 Lake Road
Dyersburg, TN 38024
(731) 286-3254
(731) 286-3299 (Fax)
dreynolds@dsc.edu

Timberly Singleton

Freed-Hardeman University
Brown-Kopel Business Center
Room 358
158 East Main Street
Henderson, TN 38340
(731) 989-6041
tsingleton@fhu.edu

Mark Moses

Southwest Tennessee Community College
5983 Macon Cv.
Memphis, TN 38134
(901) 333-4434
mmoses@southwest.tn.edu

Robert Niedzialomski

University of Tennessee, Martin
341 Latimer-Smith Building
203 Hurt Street
Martin, TN 38238
(731) 881-7361
rniedzia@utm.edu

Alistair Windsor

University of Memphis
Department of Mathematical Sciences
Dunn Hall 355
Memphis, TN 38152
(901) 678-5008
awindsor@memphis.edu



TENNESSEE MATHEMATICS TEACHERS' ASSOCIATION

2024 High School Mathematics Contest, April 2

Email this form to the center chair of the testing center you wish to bring students to. Email addresses are in the contest brochure.

SCHOOL ENROLLMENT FORM	
School:	City:
County:	Today's Date:
Contest Supervisor:	School Email Address:
Are you a member of TMTA? (underline or highlight) Yes No	
NOTE: PLEASE PAY \$6.00 PER CONTESTANT AND MAKE CHECK PAYABLE TO <u>TMTA</u>.	

	Algebra I Integrated I	Geometry Integrated II	Algebra II Integrated III	Statistics	Pre- calculus	Calculus & Adv Topics
Number Enrolled in Course(s)						
Maximum Number of Participants Allowed. (See table below)						
Number to Compete at Testing Center, (Not to Exceed Maximum)						

Maximum Number of Participants Allowed						
Number Enrolled in Course	Algebra I Integrated I	Geometry Integrated II	Algebra II Integrated III	Statistics	Precalculus	Calculus & ADV Topics
1-25	4	4	4	4	4	6
26-50	4	4	4	5	5	8
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