

**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: | |
| ***Algebra I / Integrated I*** | ***Statistics*** |
| ***Geometry / Integrated II*** | ***Pre-calculus*** |
| ***Algebra II / Integrated III*** | ***Calculus and Advanced Topics*** |
| A student may compete in only **one** division. | |

The contest is open only to students who have been enrolled in a mathematics course during the current academic year. Each contestant mustcompete 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: Score = 4 × (Number Right) − (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](mailto: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](mailto: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](mailto: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.

1. 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/**](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**

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

| **MIDDLE TENNESSEE REGION** | |
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| ***Amy Nelson***  Lipscomb University  Department of Mathematics  One University Park Dr.  Nashville, TN 37204  (615) 966-6488  [amy.nelson@lipscomb.edu](mailto:amy.nelson@lipscomb.edu) | ***Jennifer Yantz***  Austin Peay State University  Mathematics  AP Box 4626  Clarksville, TN 37044  (931) 221-1607  [yantzj@apsu.edu](mailto:yantzj@apsu.edu) |
| ***Jennifer K. Aust***  The University of Tennessee Southern  433 West Madison Street  Pulaski, TN 38478  (931) 363-9851  [jaust@utsouthern.edu](mailto:jaust@utsouthern.edu) | ***Laurie Dishman***  Cumberland University  Mathematics - Labry Hall #236  1 Cumberland Square  Lebanon, TN 37087  (615) 547-1278  [ldishman@cumberland.edu](mailto: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](mailto:Dovie.Kimmins@mtsu.edu)  [Catherine.burnette@mtsu.edu](mailto: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](mailto: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](mailto:slbrown@tntech.edu) |  |

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| **WEST TENNESSEE REGION** | |
| ***Devalyn Reynolds***  Dyersburg State Community College  1510 Lake Road  Dyersburg, TN 38024  (731) 286-3254  (731) 286-3299 (Fax)  [dreynolds@dscc.edu](mailto:solmon@dscc.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](mailto:tsingleton@fhu.edu) |
| ***Mark Moses***  Southwest Tennessee Community College  5983 Macon Cv.  Memphis, TN 38134  (901) 333-4434  [mmoses@southwest.tn.edu](mailto: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](mailto:rniedzia@utm.edu) |
| ***Alistair Windsor***  University of Memphis  Department of Mathematical Sciences  Dunn Hall 355  Memphis, TN 38152 (901) 678-5008  [awindsor@memphis.edu](mailto: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.*

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| --- | --- |
| **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 TMTA.** | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **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 |
| **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 |