

Math Day 2018 at Murray State University
January 30, 2018 9:15am-1:30pm
Contest Rules and General Information

I. Registration

- (i) The deadline for registration is December 22nd at 12 pm via the Google form found at <https://goo.gl/forms/QLJoNuAlmeWf1cn02>.
- (ii) Students may be allowed to participate if their information is not provided before December 22nd; however, there is no guarantee that such students will receive a t-shirt.
- (iii) If a student who is registered before December 22nd cannot participate, another student will be allowed to substitute. Please email msu.mathday@murraystate.edu with changes.
- (iv) Each school is allowed to bring a maximum of 25 students.

II. Individual Exams

- (i) There will be two exams administered concurrently, beginning at 9:35 am.
- (ii) Each exam consists of thirty multiple choice questions. Students will be given one hour to complete the exam.
- (iii) The Lower Level Exam is geared toward freshman and sophomore students. The content will consist of problems of varying difficulty from Algebra I, Algebra II, Geometry, and Mathematical Reasoning.
- (iv) The Upper Level Exam is geared toward junior and senior students. The content will consist of problems of varying difficulty from Trigonometry, Calculus, Probability, and Mathematical Reasoning.
- (v) The use of calculators will not be allowed during the exam; however, students will be given pencil and paper.
- (vi) The grading criteria for the exams is as follows: +1 point for a correct answer, $-\frac{1}{4}$ point for an incorrect answer, and 0 points for no answer.
- (vii) Junior and senior students will be allowed to take the Lower Level Exam; however, they are ineligible for individual prizes in this category and their scores will not count toward school awards.

III. Group Competition

- (i) Each school will divide its participants into groups of 4 – 5 students. Each group must be (roughly) composed of an equal number of students taking the Upper Level Exam and students taking the Lower Level Exam.
- (ii) Each group will have 45 minutes to complete as many math challenges as possible.
- (iii) In order to coordinate all participants, one student will be designated as the representative for the group. This student will be in charge of picking up the challenge from the challenge tables and bringing it to the group's table to work on.
- (iv) The use of any external source will immediately disqualify the group. This includes a calculator, phone, laptop or any person that is not part of the group.

IV. Awards

- (i) The three groups with the highest scores in the group competition will earn awards.
- (ii) The five students with the highest scores for each level of exam will earn awards.
- (iii) The three juniors and three seniors with the highest scores on the Upper Level Exam will be given scholarship letters to Murray State University.
- (iv) There will be one award for the school with the best performance. A school must have at least three students participating in each exam in order to be eligible for this award.

V. Miscellaneous

- (i) All activities will be held on the 3rd floor of the **Curriss Center** (Building 24 on the Murray State Campus map).
- (ii) Check in will begin at 8:15 am and we will begin the day promptly at 9:15 am with a welcome from Dr. Stephen Cobb, Dean of the Jesse D. Jones College of Science, Engineering, and Technology.
- (iii) In addition to the contest, there will be a MSU student/alumni panel discussion focusing on the pursuit a mathematics degree and the usefulness of mathematics in a professional career. We encourage students and teachers to have questions prepared for this component of Math Day.
- (iv) When completing the registration form, make sure to indicate any possible dietary restrictions.
- (v) During the registration process, please indicate the correct t-shirt size for each student. No additional t-shirts will be available the day of the competition.
- (vi) If you have any additional questions please email msu.mathday@murraystate.edu.