Math Day 2024 at Murray State University
February 7, 2024 9:15am-1:25pm
Contest Rules and General Information

I. Registration

   (i) The deadline for registration is Thursday, January 18th at 12 pm via the Google form found at https://forms.gle/498JWvYwoovhosVc7.

   (ii) Students may be allowed to participate if their information is not provided by January 18th; however, there is no guarantee that such students will receive a t-shirt.

   (iii) If a student who is registered by January 18th 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 20 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 50 minutes 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. Team Competition

   (i) Each school will divide its participants into teams of 3–4 students. Each team must be (roughly) composed of an equal number of students taking the Upper Level Exam and students taking the Lower Level Exam.

   (ii) Each team will have 45 minutes to complete as many math challenges as possible.

(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 and those teams counted for points in the group competition must include at least one student taking the Lower Level Exam and one taking the Upper Level Exam. Points will be distributed as set out below.

Upper Exam: Each individual student performance accumulates points for their school. Points are given out for the following:

- 1st place (10 points)
- 2nd place (8 points)
- 3rd place (6 points)
- 4th place (4 points)
- 5th place (2 points)

One school may accumulate a maximum of 30 points in this event.

Lower Exam: Points are awarded exactly the same as in the Upper Exam.