



# Lexington Math Contest

## Saturday, November 4, 2023

### Lexington High School

Join us for a day of fun, friendly math competition at Lexington High School. The contest events are modeled after Mu Alpha Theta events. Example tests can be viewed at <https://famat.org/> and [https://mualphatheta.org/past\\_tests](https://mualphatheta.org/past_tests). While the tests on these sites are intended for national level competition, expect the tests for our event to be at a level appropriate for a local math competition.

**Registration is FREE.** Register at: <https://forms.gle/y3RcP6ta7q8DUUAX6>

**Please direct any questions to both emails listed below.**

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8:30 - 9:15	<b>Registration &amp; Information</b> <b>Note: Calculators are NOT ALLOWED in any event</b>
9:15 - 9:30	Event Rules Meeting
9:30 - 9:40	Move to Testing Areas and Finish Setup
<b>9:40 - 10:00</b>	<b>Mental Math Test</b>
<b>10:00 - 10:20</b>	<b>Speed Math Test</b>
10:20 - 10:30	Break
<b>10:30 - 12:00</b>	<b>Division Tests</b> <b>Mu = Calculus Division</b> <b>Alpha = Precalculus Division</b> <b>Theta = Algebra 2 Division</b>
12:00 - 1:00	Lunch
<b>1:15 - 2:30</b>	<b>Hustle Competition (School Teams of 4)</b>
2:30 - 3:30	Contest Resource Sharing Session How to Start a Mu Alpha Theta Chapter at Your School High School Math Team Resources & Mu Alpha Theta Resources Other Contest Opportunities
3:30 - 4:15	Awards Ceremony

## Event Descriptions and Scoring for the 2023 Lexington Math Contest

<b>Participation</b>	<p>All students are expected to participate in all contests. Each school will designate their “Varsity” Hustle Team before the event begins. Only the “Varsity” Hustle team score will count toward sweepstakes scoring. Contest personnel expect that each school should bring at least 4 students to compete.</p> <p><b>**SPONSORS are expected to compete in both the Mental Math Test and the Speed Math Test.**</b></p>	
<b>Mental Math Test</b>	<p>8 minute test with 40 problems All problems must be solved <u>MENTALLY</u>. There is to be no writing on the test other than the answer. Writing other than the answer(s) will result in disqualification of the test taker. The answer should be written in the space provided. No pen erasures may be made to an answer once written. No writing over an answer. Use a pen with blue or black ink only. All problems require exact answers. Fractional answers may be given as improper fractions, mixed numbers, or exact decimals unless otherwise specified. You will receive 5 points for each correct answer, 1 point for each question skipped, and 0 points for each incorrect answer.</p>	
<b>“Speed” Math Test</b>	<p>15 minute test with 25 open response problems. The content will be general problem solving. The answer should be written in the space provided. All problems require exact answers. Fractional answers may be given as improper fractions, mixed numbers, or exact decimals unless otherwise specified. Any units within a given problem and its answer are consistent. Where applicable, leave answers in terms of <math>\pi</math>. You will receive 1 point for a correct answer and 0 points for an incorrect answer.</p>	
<b>Division Tests</b>	<p>30 multiple choice question written test covering all topics applicable to the given level. Divisions are determined by a student’s current math course. 5 points for a correct answer; 1 point for a question left blank; 0 points for an incorrect answer.</p> <p>Mu: Enrolled in or has taken a calculus course          Alpha: Enrolled in or has taken Precalculus or College Algebra          Theta: Enrolled in any other math course but has NOT taken Precalculus yet and is NOT enrolled in a Precalculus level course</p>	
<b>Hustle Competition</b>	<p>Four students on a school team (we will form teams with extra students for fun)          5 rounds of 5 minutes each The team receives 125 questions color coded by category. Categories: Algebra, Geometry, Statistics, Precalculus, Calculus          Student teams may talk, collaborate and work together throughout the event. Before the end of each round, a 1 minute warning &amp; 15 second warning are given. Teams may turn in up to 5 questions from each category each round. More than 5 questions in a category in a single round will be rejected. All answers must be written in the answer blank or they will be counted wrong.  <b>ALL SPONSORS ARE EXPECTED TO HELP GRADE HUSTLE.</b></p> <p>Scoring for Correct Answers: Round 1 = 5 points; Round 2 = 4 points; Round 3 = 3 points; Round 4 = 2 points; Round 5 = 1 point</p>	
<b>Awards</b>	<p><b>Medals to the Top 3 Students</b>          Mu Division Test          Alpha Division Test          Theta Division Test          Mental Math Test          Speed Math Test  <b>**Sponsor Award (Top 3 sponsor scores on Mental + Speed tests)</b></p>	<p><b>Trophies to the Top 3 Schools</b>          Hustle          Sweepstakes (computed based on total scores across events)</p>