

Mustang Math Tournament



Info Pack 2026

International

High school



MMT
GLOBAL SIMCC
NETWORK



Grades: 9 to 12

About MMT

OVERVIEW

- The Mustang Math Tournament is a math competition run for students around the world.
- It is put together by Mustang Math, a 501(c)(3) nonprofit organization put together by high school and college students, including the directors of the Stanford and Berkeley Math Tournaments!
- It comprises of an individual and team rounds with individual scores added to boost the team scores.



About MMT



OBJECTIVES

- The tournament is **centered around teamwork and collaboration**, incentivizing students to work with their teams not only to navigate the **challenging but interesting problems** of the tournament, but also to develop strategies to master the unique and fun game-like rounds.
- To make it **enjoyable for any and all students who have an interest in mathematics**.



MMT: Your Academic Launchpad



- SIMCC will host the esteemed Mustang Math Tournament (MMT), a  prestigious competition recognized by top American universities
- Our global reach: MMT is now open to the SIMCC's network, extending across 40 countries
- Participation and victory in MMT enhance academic credentials, acting as a significant advantage for university applications, and scholarships.



SIMCC & STS: Expanding MMT Access for Global Achievers

- MMT is now open to all **Bronze** and above winners of **AMO 2025**, **SMGF 2026**, **SASMO 2026**, and **SIMOC 2026** from each participating country can sign-up to join through SIMCC or Country Council Partner (CCP).



Take the leap, compete with the best, and unlock your potential with MMT!

Registration Information



CONTEST DATE: 23rd August 2026

REGISTRATION CLOSE DATE: 10th August 2026



TEAM SIZE: 3-4*



LOCATION: Online

Exam Time: **10.30 am IST to 5.30 pm IST**



(Student must attend all the 4 Rounds)

How to participate in MMT:



Registration Fees: Rs. 4850

Register for MMT 2026 at below link

<https://olympiadindia.in/mustang-math-tournament-2026/>



Competition Format and Trainings

- The competition comprises of 1 individual round and 3 team rounds.
- Recordings for the MMT Prep Seminar which prepares competitors for MMT:
- Day 1: https://drive.google.com/file/d/1sN5SNI338JE_KMbD_Cmd49Eht09QkRwC/view
- Day 2: <https://drive.google.com/file/d/1uBhfWjCZe0IKAhJxdq76Z3WT9d55rJZT/view>

In addition, here are the lecture notes:

- Day 1: <https://drive.google.com/file/d/1aXkJI3S14yUB77oWBxTPyreiefbl6Y8p/view>
- Day 2: https://drive.google.com/file/d/1_zPg9tI9LPT0B42-LA5ougSBFvLtVNVt/view

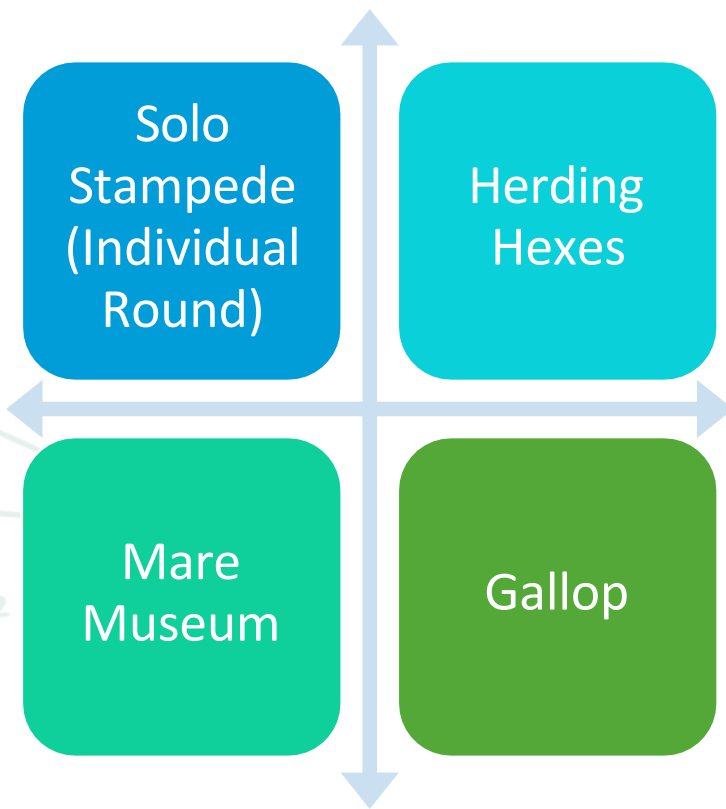


This tournament is a thrilling adventure for all math enthusiasts!



Competition Format

MMT has one individual and 3 unique and fun team rounds:



- Solo Stampede – Individual Round.
- A strategy-filled hexagon round – Herding Hexes.
- A difficulty increasing round – Mare Museum.
- A focus problem round – Gallop Rodeo

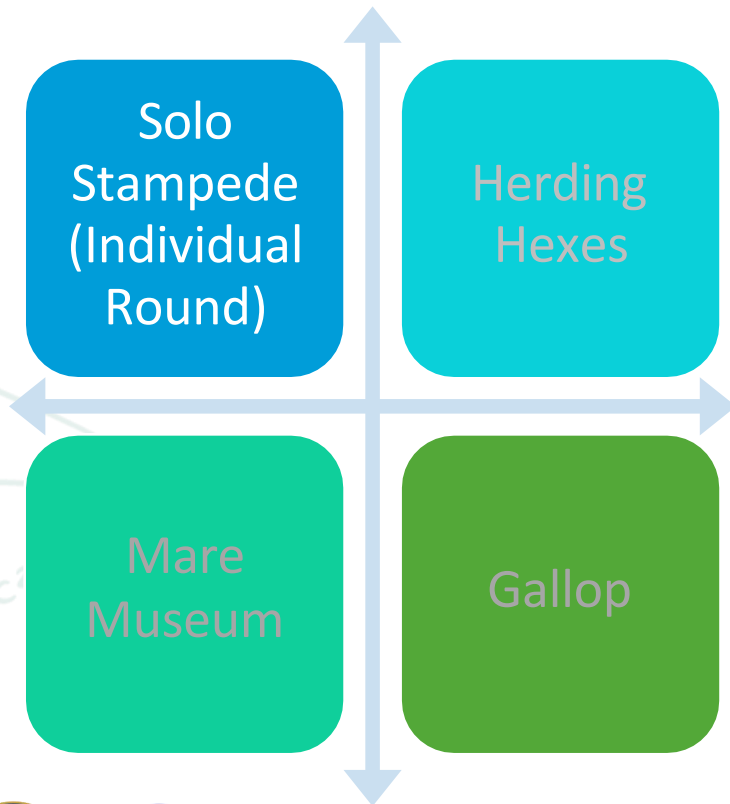
This tournament is a thrilling adventure for all math enthusiasts!



Solo Stampede



- The “Solo Stampede” round is an *individual* round and will consist of 25 questions to be solved in 60 minutes



- Note that this is the only individual round in MMT.
- The round comprises of 25 questions in increasing order of difficulty.

Herding Hexes

The “Herding Hexes” Round will consist of 26 questions to be solved in 45 minutes.

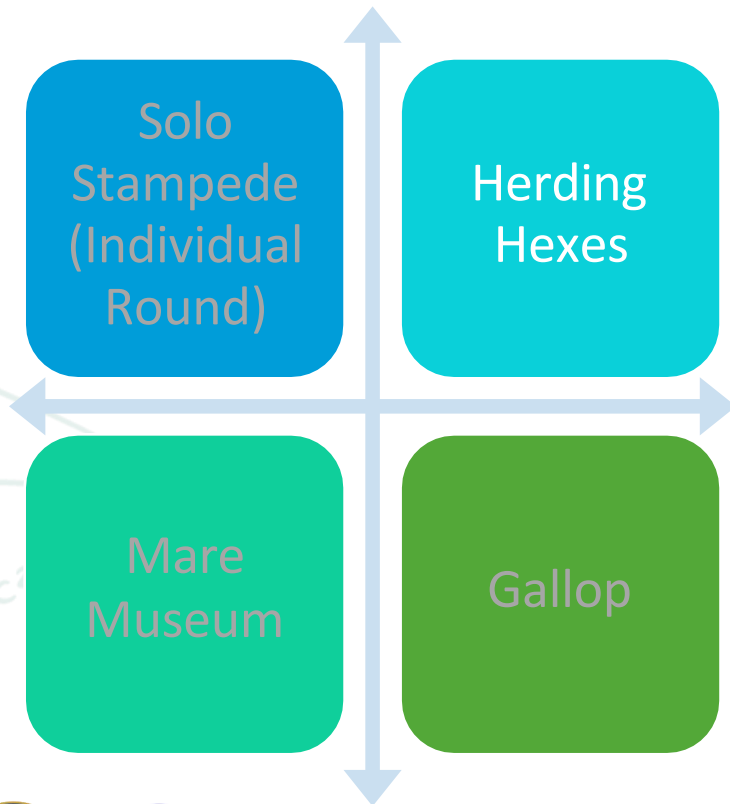


- The questions will be laid out on a grid of connected hexagons, with more difficult problems being located furthest from the center.
- This round contains 26 problems to be solved in 45 minutes. Each problem corresponds to a hexagon on the answer grid (backside).
- A correct answer will grant 2 points each for Problems 1 through 10, 3 points each for Problems 11 through 19, and 4 points each for Problems 20 through 26.
- You are not necessarily expected to solve all the questions in this round within the allotted time. Instead, we encourage you to strategize how you might use your time to maximize your points!



Herding Hexes

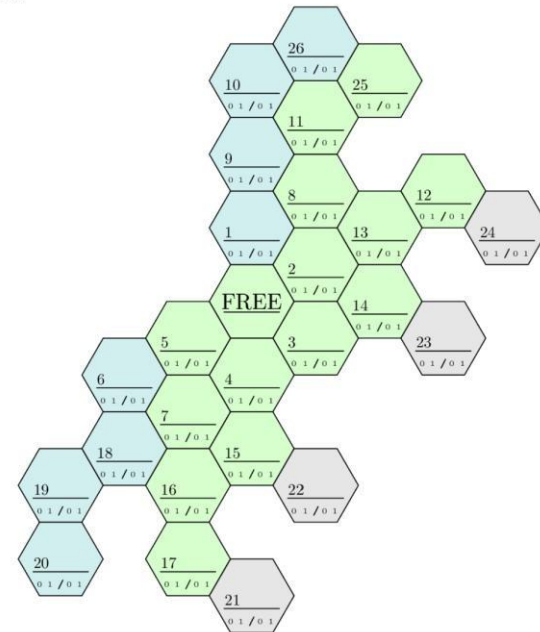
The “Herding Hexes” Round will consist of 26 questions to be solved in 45 minutes.



- The score of a hexagonal tile is doubled if it can be connected back to the Free tile through other tiles that contain correct answers.



Herding Hexes Round



Mare Museum

The “Mare Museum” Round will consist of 3 sets of 7 problems to be solved in 75 minutes.

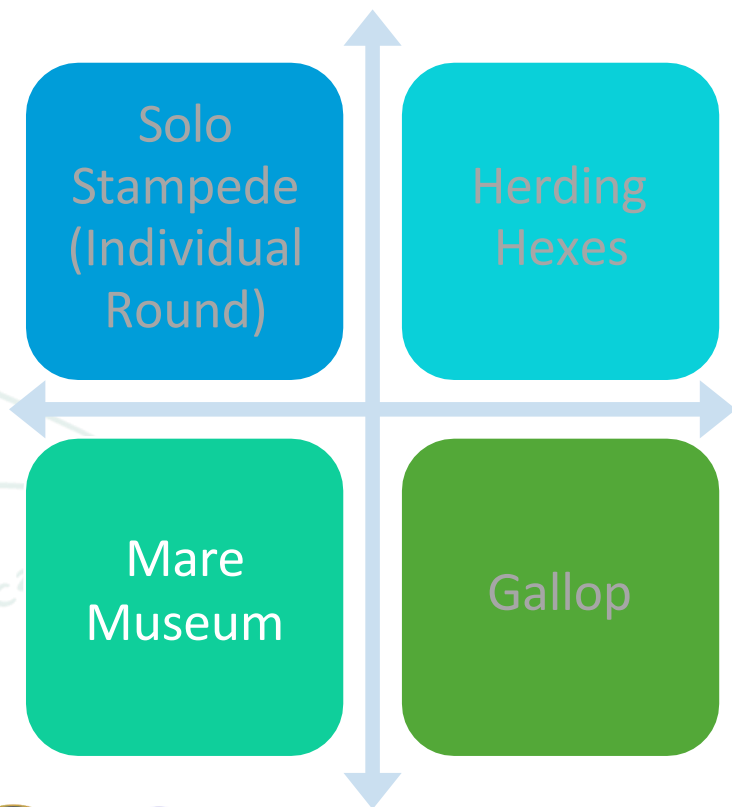


- This round contains a 15 minute period to read the explanation document, and then 60 minutes to solve the problems.
- In this round, you will be learning about some interesting areas of mathematics, some of which you may have never heard of before!
- The problems in each set are in increasing order of difficulty, however each problem is worth the same amount of points.



Mare Museum

The “Mare Museum” Round will consist of 3 sets of 7 problems to be solved in 75 minutes.



- Potential Topics Covered:
- In algebra, there may be:
 - logarithms and exponents
 - Complex numbers
- In geometry, there may be:
 - Trigonometry
 - Law of Sines/Law of Cosines
 - Inverse Trigonometry



Gallop

The Gallop Round will consist of 27 questions to be solved in 60 minutes.

- The questions will be divided into 9 sets of 3 problems each, and you must submit the answers to one set before accessing the problems for the next. This means you must strategize when to submit each set (incomplete or not) to ensure you get access to as many questions as possible.
- The problems will get progressively more difficult, and later problems will be worth more points.
- Make sure to input all answers correctly into COMP as you will be unable to return to a set once you have turned it in!
- Point values for each set is listed in the table below:

Round #	1	2	3	4	5	6	7	8	9	Total Pts.
Pts/Problem	10	11	12	13	14	16	18	21	25	420



Rules

- No cheating - This contest has a zero-tolerance cheating policy. Any evidence of cheating may lead to immediate disqualification, or any other punishment deemed appropriate by competition staff.
- No calculators, rulers, compasses, protractors, or other aids are permitted.
- You may not use the Internet as a resource at any point during a test.
- To help enforce this, we may require individuals to provide a solution for a problem during the competition - so keep track of your work!
- All communication will take place through the Zoom platform.
- Scores, important information, documents, etc. will only be communicated through Zoom on the day of the contest.



Rules (cont.)

- All teams should be communicating with each other on Zoom Break out room platform ONLY.
- The team divisions are determined by the highest grade level amongst the team members.
- Teams with 1 or more 8th graders will be in the Stallion division,
- Teams with 7th graders and below will be in the Colt division,
- Teams with 6th graders and below will be in the Foal division. Teams may choose to compete in a higher division, if they'd like.
- Each team should consist of 3 to 4 members. Country partners may allocate students into teams. In cases where students have not been assigned to a team, we will take responsibility for grouping them accordingly to ensure everyone is placed in a team.
- Please appoint one team leader for each group. The designated leader will join a dedicated support Teams link and will be responsible for reporting any issues that arise during the competition. Our support team will be available through that channel to provide assistance as needed.



Answer Formatting Rules

- Carry out any reasonable calculations. For instance, you should evaluate any expressions which will take negligible time to evaluate (such as $\frac{1}{2} + \frac{1}{3}$). You don't have to carry out unreasonable calculations, including large powers (e.g. 7^8), large factorials, large products, and trigonometric functions which cannot be expressed in terms of radicals.
- Write rational numbers in lowest terms. Decimals are also acceptable, provided they are exact.
- Move all square factors outside radicals. For example, write $3\sqrt{7}$ instead of $\sqrt{63}$.



Answer Formatting Rules



- Make sure you don't have any extra calculations in your answers!
- For example, 78 and 285 is okay, but $\frac{1}{2} + \frac{1}{3}$ is not. Simplify radicals!
- Rewrite expressions like $\sqrt{63}$ into $3\sqrt{7}$ and $\sqrt{1/9}$ as $\frac{1}{3}$ (exact decimal answers are also acceptable)
- Rationalize all denominators - write $1/\sqrt{2}$ as $\sqrt{2}/2$ and $1/(\sqrt{2} - 1)$ as $\sqrt{2} + 1$
- No repeating sums / products!
- 1.333... should be submitted as $1\frac{1}{3}$ and $2*2*2*2*2$ as 32

Answer Formatting Rules

- Denominators need to be rationalized. For example, write $\frac{1}{\sqrt{2}}$ as $\frac{\sqrt{2}}{2}$ instead.
- Do not express an answer using a repeated sum or product.
- Here are some examples of simplified answers, and examples of un-simplified answers with simplified equivalents:



Examples of Acceptable Answers		
879	$2^{57} + 1$	$\frac{2}{7}$
$\sqrt{\pi}$	$\frac{\sqrt{2}}{2}$	240!
$\cos(1)$	$\binom{200}{4}$	$11 \sqrt[11]{\frac{27}{4}}$

Answer Formatting Rules

- Examples of un-simplified answers with simplified equivalents:



Examples of Unacceptable Answers	
Unsimplified Answer	Simplified Answer
61×17	1037
$\sin\left(\frac{\pi}{7}\right) - \sin\left(\frac{6\pi}{7}\right)$	0
$\frac{61}{31415}$	$\frac{1}{515}$
$\sqrt{3 + 2\sqrt{2}}$	$1 + \sqrt{2}$
$\sqrt{\frac{7}{9}}$	$\frac{\sqrt{7}}{3}$
$\sin\left(\frac{\pi}{10}\right)$	$\frac{\sqrt{5}-1}{4}$
$\frac{1}{\sqrt{3}}$	$\frac{\sqrt{3}}{3}$

Potential Topics Covered

Algebra

- Systems of equations
- Quadratics
- Vieta's
- Binomial Theorem
- Radicals/Exponents
- Simon's Favorite Factoring Trick
- Ratios
- (Infinite) Geometric Series
- Arithmetic Series
- Sum/Difference of Powers
- Rate/Time
- Floor/Ceiling
- Absolute Value
- Substitution (Nested Roots/Repeated Fractions)
- Mean, Median, Mode, Range
- Telescoping



Potential Topics Covered

Combinatorics

- Sticks and Stones
- Permutation/Combination
- Properties of Inclusion Exclusion for three or less sets
- Basic Geometric Probability
- Conditional Probability
- Expected Values
- Complementary Counting
- Recursion
- Bijections
- Casework
- Pigeonhole Principle
- Double-counting
- Basic Invariants



Potential Topics Covered

Geometry

- Area Formulas
- Volume Formulas
- Shoelace Formula
- Pythagorean Theorem
- Distance Formula
- Similar Triangles
- Angle Chasing
- Power of a Point
- Basic Mass Points
- Heron's Formula
- Pick's Theorem
- Surface Area for Pyramids, Prisms, and Cones
- Arcs and Sectors
- Angle Bisector Theorem
- Internal/External Angles



Potential Topics Covered

Number Theory

- Fermat's Little Theorem
- Euclidean Algorithm
- Chinese Remainder Theorem
- Divisibility
- Chicken McNugget Theorem
- GCD and LCM
- Number of Factors
- Sum of Factors
- Basic Modular Arithmetic
- Fundamental Theorem of Arithmetic



Agenda based on Singapore Time

August 23rd



October 4th

Exam Schedule as per Singapore Time

- **13:30-14:00 Registration**
- **14:00-14:30 Opening Ceremony and Contest Instructions**
- **14:30-15:30 Individual Round (60 mins)**
- **15:30-16:15 Herding Hexes (45 mins)**
- **16:15-17:00 Break (45 mins)**
- **17:15-18:30 Mare Museum (75 mins)**
- **18:45-19:45 Gallop (60 mins)**
- **19:45 End of competition**

Online Award Ceremony

- **19:15-20:30 Award ceremony**



Awards

- Individual Awards will be designated separately for each grade level (Grades 9, 10, 11, and 12). There will be 4 distinct levels of individual awards, which will be graded based on SIMCC regional criteria. This will allow us to provide a regional ranking, rather than a local country ranking.

Individual Awards for each of 4 grades

- Gold: Top 10%
- Silver: Next 15%
- Bronze: Next 25%
- Honorable Mention: Next 20%
- Remaining 30% get E-certificate of Participation



Awards

Team Awards for 3 Divisions

- Gold: Top 8%
- Silver: Next 12%
- Bronze: Next 20%



Overall Championship for 4 Grade Levels

- For each grade level with more than 50 contestants, the following titles will be awarded:
 1. **Overall Champion** – Receives a Contest Voucher of \$150 and 3 IJHS Scholarship points.
 2. **Overall Runner-up** – Receives a Contest Voucher of \$100 and 2 IJHS Scholarship points.
 3. **Overall 2nd Runner-up** – Receives a Contest Voucher of \$50 and 1 IJHS Scholarship point.
- *The Overall Champion will be determined by summing the individual scores and team awards (Gold = 10 points, Silver = 7 points, Bronze = 4 points). The highest total score will earn the title of Overall Champion.*



Past Year Test Papers

Past years test papers are archived here



<https://www.mustangmath.com/past-tests>

You can review our [past tests](#), and we highly recommend checking out [past MathCounts](#), [AMC 8/10](#), and [BmMT](#) tests, as they are similar in difficulty to the problems presented at MMT.





MMT is an important Math competition for High Achievers to attempt and improve their competitive math skills and ranking