

STATE MATH BOWL XL – April 28, 2018

40th Annual State Mathematics Championships

INFORMATION BULLETIN

ANNOUNCEMENT

Brigham Young University Hawaii is hosting the 40th Annual State of Hawaii Math Bowl. It will be held at Brigham young University at 55-220 Kulanui Street, Laie, Hawaii on Saturday, April 28, 2018, from 8:30 a.m. to approximately 2:00 p.m.

PURPOSE

The purpose of the Math Bowl is:

1. To promote the teaching and learning of mathematics.
2. To give outstanding math students the opportunity to compete in solving challenging problems.
3. To promote good-will & understanding through mathematics among the schools & students of Hawaii.
4. To stimulate interest & create enthusiasm for the learning of mathematics through friendly competition.

FORMAT

All interested public and private high schools in the State of Hawaii will each designate three students to represent them on the official school team. In addition, alternates and/or practice teams may participate but not in an official capacity.

Each school will be assigned to one of two divisions: Class AA (enrollment of 1,000 or more) or Class A (enrollment of less than 1,000) with the understanding that any Class A school may elect to compete in Class AA.

CONTEST FORMAT:

The Math Bowl has participants play an eight-round format as seen in the Tentative Schedule found at the bottom of this document. At least one tie-breaker problem shall be prepared to determine one first-place, one second-place, and one third-place winner in each class (A or AA), if necessary. In the event that there is still a tie for the top three places in each class, then the Math Bowl Chairperson shall determine a fair way to break the tie.

Note that the total amount of time that the students will spend in competition will be approximately 70 minutes. The halves are 36 and 34 minutes long. The maximum possible point value will be 90 points. The total number of problems is 14 (excluding tie breakers). For the 1st and 7th rounds, each member of the team will get all three problems, color-coded. Each team will get an answer sheet, which they hand in after filling in their 3 answers and school name. For the 5th round, each member will only get one problem, which will be color-coded for category.

If there are any challenges that need to resolve on any question, then the decision of the judges shall be final.

RESULTS AND AWARDS

The names of the top three schools in each class (A or AA) shall be publicized.

Awards to be presented in each class are as follows:

- first place trophy/plaque;
- second place trophy/plaque;
- third place trophy/plaque;
- perpetual trophy
- each individual receives a certificate of participation.

ENTRY FEE

- To partially defray the cost of printing programs, problems, certificates, trophies, lunch, facilities, and equipment, each person (coach, chaperone, student participant, student observer) that attends the Math Bowl shall be assessed an entry fee of \$21.00.

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- Checks should be made payable to the BYU-Hawaii Mathematics department. Payment can also be made by credit card. Contact Scott Hyde for details
- Outer island teams are especially invited to compete, but must provide their own air transportation costs, vehicle renting expenses, as well as lodging and food charges in addition to the entry fee.
- All lodging, vehicle renting, and air transportation payments should be made directly through the appropriate vendor.

LIABILITY

All schools and individual participants and attendants at the Math Bowl shall not hold Brigham Young University--Hawaii, or any party/individual connected with the Math Bowl liable, unless gross negligence can be shown.

LODGING, FOOD, TRANSPORTATION (GROUND & AIR)

All schools and individual participants and attendants may use the following arrangements.

- Food and Refreshments. A lunch will be provided immediately after the Math Bowl during which the awards will be presented. Your participation/entry fee will help to pay the costs of lunch.
- Air Transportation. Air transportation, if needed, will be on your own.
- Ground Transportation. Ground transportation will be on your own.

DEADLINES

Deadline for Participation in the Math Bowl: April 4, 2018 - Wednesday. Online Registration for the Math Bowl and the \$21.00 per person entry fee must be received by Scott K. Hyde at the address indicated on the form by then. Online registration must be completed at the website: <http://math.byuh.edu/mathbowl/registration>

TENTATIVE SCHEDULE FOR MATH BOWL XL ON SATURDAY – April 28, 2018:

08:30 - 09:00	Arrival at Site. Registration. Seating Assignment for Official Teams.
09:00 - 09:29	Opening Remarks. Invocation. Introduction of Teams, Guests, and VIP's. Final Instructions.
09:30 - 09:40	1st Round: 10 minutes/15 points. There will be three problems, ranging from easy to moderate. The point values for each problem will be 4, 5, and 6. Students may work together on all three exercises.
09:45 - 09:50	2nd Round: 5 minutes/5 points.
09:55 - 10:01	3rd Round: 6 minutes/6 points.
10:06 - 10:13	4th Round: 7 minutes/7 points.
10:18 - 10:26	5th Round: 8 minutes/18 points. There will be three problems. Each problem shall be worth 6 points each. The exercises shall be of moderate difficulty. The exercises shall be done individually, where each member of the three-member team shall do one problem. The three categories of problems shall be specified by the problems committee, and might be algebra/ geometry, trigonometry and probability. The coaches shall be informed before the contest begins. Before receiving the problems, the students and the coach, if necessary, shall decide who will do which category of problem. The chair which the student occupies at each team's table (for example, left, middle, or right) will determine which category of problem the student will do.
10:26 - 10:41	Intermission. Half-Time. Report of Half-Time Scores. Announcements.
10:41 - 10:50	6th Round: 9 minutes/9 points.
10:55 - 11:10	7th Round: 15 minutes/20 points. There shall be three problems, ranging from easy to very difficult. The point values for the problems will be 4, 6, and 10. Students may work together on all three exercises.
11:15 - 11:25	8th Round: 10 minutes/10 points.
11:25 - 11:45	Break. Totaling of Team Scores.
11:45 - 12:00	Tie-Breaker, if necessary.
12:05 - 01:45	Lunch. Report of Final Results. Presentation of Awards and Accolades.