

ROCKDALE MATHEMATICS COMPETITION RULES for both High School and Middle Schools

There are four rounds of competition, three of which are team oriented. There is no multiple-choice test. We follow the official ARML rules regarding [forms of answers and mathematical notation](#).

The Team Round – The four-student team will be given 10 unrelated problems of various topics and difficulties to solve within 30 minutes. The team will work together to solve the problems and the correct answers will be written on a separate answer sheet; correct answers earn 6 points each (60 points total).

The Power Round – The four-student team will be given a single multi-part problem for which all work must be shown; answers must be justified in the JV and Varsity level Power Rounds. The team is given 40 minutes to write solutions; 60 points are possible and partial credit is awarded.

The Relay Round – The four-student team will participate in one Relay Round consisting of six problems. After the first problem, the answer to the previous problem(s) must be used to answer each subsequent problem. Each team member will receive all problems, and answers to all six will be submitted. Points are earned by answering consecutive problems correctly: the first answer correct earns 5 points; the first two correct earns 10 points; the first three correct earns 16 points; the first four correct earns 22 points; the first five correct earns 30 points; all six correct earns the maximum 40 points. There is a 10-minute time-limit.

The Individual Round – Each person answers 10 problems given two-at-a-time. The time limit for problems 1 and 2 is 4 minutes with an additional minute for each successive pair so that problems 9 and 10 have an 8-minute time-limit. Each correct answer earns 1 point, and, unlike traditional ciphering, there are no additional points for answering more quickly (40 points total).

As always, there are NO calculators allowed on any part of the tournament.

Team awards are based on the sum of all points earned on all four rounds; ties in team scores are broken by highest Team Round score, then Power Round score, then Relay Round score. The top 3 teams in Middle School, JV, and Varsity in Large and Small divisions are awarded. For State Math Tournament qualifying purposes, the Varsity division results will be submitted to GCTM.

Individual awards are based solely on the Individual Round. For the purposes of individual awards, each individual question is weighted based on difficulty. These weighted values are not included in team scores but are only used to determine individual winners. We will recognize each person who receives the overall highest score with a championship medal, and each person with the highest score from each school will receive a school winner medal.

The levels of competition are defined as follows.

- The Middle School level is for any student in 8th grade or below;
- The JV level is for any student in 10th grade or below, regardless of math class in which they are enrolled;
- The Varsity level is for 12th grade or below.

Each school will be classified by the following.

- The “Large School” division includes
 - public high schools in GHSA classification 6A and 7A
 - public middle schools with a school enrollment size of 800 or more in grades 6-8;
 - non-public schools with a school enrollment size of 400 or more in grades 9-12 or in grades 6-8;
 - all academic Magnet schools;
 - all non-Georgia schools.
- The “Small School” division includes all other public middle and high schools.

However, a Small School may elect to compete in the Large School division.