

## SIGMA BY - LAWS

- A. **PURPOSE:** The purpose of the league is to stimulate interest in mathematics by working challenging problems through academic competition and to identify mathematically talented students among the participating schools.
- B. **MEMBERSHIP:** Any school with grades 6 through 9 that agrees to abide by these by-laws is eligible for membership in the league.
- C. **PARTICIPANTS:** Any student in any member school is eligible to participate in any of the contests. Any student may compete in as many of the five contests as he/she desires. All students are eligible to compete in one or all of the contests.
- D. **SPONSOR:** Each member school must have a designated faculty sponsor who will:
1. Receive all mail pertaining to the league.
  2. Organize the participants in the member school.
  3. Administer and correct all tests.
  4. Complete the summary sheets for each contest.
- E. **CONTESTS:** Five contests will be held during the school year. The first contest will be held in October. Each contest will consist of eight problems with a thirty minute time limit. Each problem in each contest has a value of one point. No partial credit will be given or allowed. Each school is encouraged to have as many participants as possible. Any interested student is eligible to participate.

The school team will be composed of 12 members for scoring purposes. The 12 individuals composing the school team can vary from contest to contest depending upon the student scores. Each school will be placed in one of three divisions. Team members will be selected from each division as follows.

1. Division 1. All schools compete in Division 1—each grade level of the schools designated grades of participation. The team score for each contest is the sum of the 12 highest scoring participants in each grade.
2. Division 2. Schools competing in two grades only (6 & 7, 6 & 8, 7 & 8, 7 & 9, or 8 & 9). The team score for each contest is the sum of the 6 highest scoring students from each grade.
3. Division 3. Schools competing in three grades. The team score is the sum of the 4 highest scoring students in each grade.

Schools will not be permitted to change divisions after the second contest. A change of division must be requested before the second contest.

The sponsor is responsible for the security of the test until it is given. Test questions are not to be shown or discussed with anyone until after the test is given. The professionalism and pride of each sponsor will guarantee the honesty of the test results.

The individuals composing the school team can vary from contest to contest depending upon the students scores.

F. **MAILINGS:** Each mailing will contain the following.

1. Two copies of the test for each grade. If more are needed you may make a thermal ditto copy or photo copy of the number necessary for your need.
2. An answer key with worked out solutions for the current contest.
3. An NCR summary sheet. Return the white copy to SIGMA and keep the carbon (yellow) for your records.
4. An envelope to return the summary sheet.
5. A newsletter containing special information about the current contest or upcoming contests, a summary of the results of the previous contest and a cumulative summary of all contests to that point.

G. **CONTEST PROCEDURES:**

1. All contests are to take place during the week specified on the schedule. The sponsor will determine the best day of the week to administer the test.
2. The problems may be solved by any method. Calculators are permitted. Careful reading of the solution key is important.
3. The contest should be monitored with the same scrutiny that any of the other tests that you give students.
4. If the sponsor believes that an answer is correct even though it does not agree with the solution provided, he/she may appeal. The appeal must contain a statement setting forth the reasons why the appeal should be granted. An appeal may be granted where there is a question of interpretation or for an answer that is equivalent to the correct answer given. Our decision on appeals shall be regarded as final. In cases of appeals it is suggested that the papers of all participants be held by the sponsor until the next contest so that if an appeal affects the scores, the papers will be available for re-scoring. The corrected results should be returned with the next contest results.
5. Each contest summary must contain all the information asked for on the summary.
6. Summary sheets should be in the mail by Saturday of the week of the contest.

H. **SUBJECT MATTER:** The contests will be general in nature. These tests will include questions from a variety of topics. These topics could include numeration systems, computation, number theory, logic, probability, problem solving and miscellaneous type problems.

I. **AWARDS:** Awards will be made to:

1. Top schools (team scores) -- Certificates -- plaques to the top 3 in each division.
2. Top schools (by grade -- scores from 12 students) -- Plaques and certificates
3. The top individual in each school -- pin
4. Top individuals in each grade -- gold, silver and bronze pins

J. **DUES:** The dues required for the league shall be paid prior to the second contest of the school year. The amount of the dues will be specified in the newsletter