



The MATHEMATICAL ASSOCIATION of AMERICA

American Mathematics Competitions

Presented by The Akamai Foundation

I. INVITATION AND PARTICIPATION

WE EXTEND A CORDIAL INVITATION to your school to participate in the Eighteenth Annual AMC 8 to be held on Tuesday, November 19, 2002. Over 200,000 students (in grades 8 and below), from more than 3000 schools participated in 2001. We truly hope that you will participate in this year's contests.



The National Association of Secondary School Principals (NAASP) has placed the AMC 8 on the NAASP National Advisory List of Contests and Activities for 2002-03.

II. Purpose -

The purpose of the contest is to increase interest in mathematics and to develop problem solving ability through a friendly competition. The questions range in difficulty from easy to very difficult in order to appeal to a broad range of students. For general information on the American Mathematics Competitions please visit us at <www.unl.edu/amc>. For information specific to the AMC 8, visit <www.amc8.org>.

III. Exam Subject Matter & Format -

The AMC 8 covers material normally associated with the middle school mathematics curriculum. Each year an increasing number of accelerated fifth and sixth grade students take part in the AMC 8. The subject matter includes (but is not limited to) such topics as:

- | | |
|----------------|-----------------------------------|
| ⇒ Estimation | ⇒ Reading and interpreting graphs |
| ⇒ Percent | ⇒ Spatial Visualization |
| ⇒ Graph Theory | ⇒ Everyday Applications |

No problem requires the use of algebra. Even though calculators are allowed, no problem requires the use of a calculator. The AMC 8 is a 25-question, 40-minute multiple choice contest with no penalty for guessing. A student's score is the number of problems solved correctly.

IV. *Registration Deadlines & Fees -*

You may register by mailing the **REGISTRATION FORM** found in this brochure. Fees for each school wishing to register are as follows:

- * Early Registration (Jan. 1 - Oct. 10) \$25
- * Registration (Oct. 11 - Nov. 1) \$35
- * **Late Registration** (Nov. 2 - Nov. 12) \$45

Contests (including student answer forms) are sold in Bundles of 10 @ \$10 per bundle. The minimum charge to participate in the **AMC 8** is \$42 (including the early registration fee & shipping charge) and would enable 10 students to participate.

Late Registrations (after November 1) will be accepted via FAX **402-472-6087** (please do not fax your order before this date). Visa, Mastercard, and American Express are accepted. Unpaid orders will be accepted only with a Purchase Order number.

V. *Participation Rules & Eligibility*

The **AMC 8** is to be given in each participating school on **TUESDAY, NOVEMBER 19, 2002** in a convenient 40-minute period. If it is not possible to administer the Contest at the same time to all students, the exam may be given several times throughout the day during a regular mathematics class period. This Contest is for individual recognition; schools are not ranked. **All answer forms will be scored in Lincoln, Nebraska.** ALL PARTICIPANTS MUST BE IN GRADE 8 OR BELOW.

VI. *Alternate AMC 8 Dates -*

EARLY ADMINISTRATION OF THE CONTEST IS NEVER PERMITTED and will lead to disqualification since this would jeopardize all scores from other participating schools!

Administration on a later “window” date (Nov. 20-Nov. 26) is permitted in cases of school academic conflicts or school closing. When a “window” date is used, schools are still granted “official” status with regard to all intramural and national award recognition.

VII. *Security & Integrity of the Exam -*

Since the exam can be taken on alternate dates, in order to protect its integrity, publication or reproduction of the problems/solutions via copier, telephone, e-mail, www or media of any type is strictly prohibited.

VIII. *Calculators -*

No problem on the exam requires the use of a calculator. However, any non-typewriter keyboard calculator may be used.

- **Summary of Results and Awards** The Summary (at \$10 each) contains a listing of Participating Schools, Student Awards, Student Honor Roll, statistical results and more (See Publications Order Form later in this brochure).

XIV. AMC 10, AMC 12, AIME & USAMO -

A 2003 AMC 10/AMC 12 Invitation Brochure will be included with your results if you have students with a high score. The date of the AMC 10/AMC 12 is Tuesday, February 11, 2003 or Wednesday, February 26, 2003. The AMC 10 and AMC 12 are the High School level contests sponsored by the MAA American Mathematics Competitions. Students who are in the top 5% of all participants or score at least 100 points on the AMC 12 and those who are in the top 1% of the AMC 10 participants are invited to participate in the American Invitational Mathematics Examination (AIME), scheduled for TUESDAY, March 25, 2003, or Tuesday, April 8, 2003. The top-scoring U.S.A. AMC 10 and AMC 12/AIME students (according to a weighted average) will be invited to take the prestigious U.S.A. Mathematical Olympiad (USAMO) in early May, 2003. More details about these competitions are provided in the AMC 10 and AMC 12 Teachers' Manuals which you would receive after registering your school for the AMC 10/AMC 12.

The Akamai Foundation

The Akamai Foundation is again this year generously providing funds for the expansion of several MAA AMC activities. These include national scholarships, which were new in 2001, and other programs. This information follows.

AIME Akamai Scholarships for 2002 - 2003

- * After final scores for all participants on the AIME 2003 have been tabulated and verified, the \$1,000 scholarship winners will be notified by mail. Winners of the scholarships will be announced publicly in May 2003, and honored at a special ceremony in their state or district targeted for **late May 2003**. More details will be announced as they become available.

The top male and female scorers on the AIME 2003 from:

- * Each of the 50 United States;
- * The District of Columbia;
- * Combined U.S. Possessions and Territories; and
- * Combined U.S. Citizens and permanent residents living abroad and taking the AIME 2003 outside of the United States and its possessions and territories.

The scholarships will be payable to the top scorer's chosen institution of higher education upon verification of enrollment. Ties for top score on the AIME 2003 will be broken by using the score from the AMC 12.

USAMO & MOSP

- ✧ Participants in the United States of America Mathematical Olympiad (USAMO) will be flown in May to a central location (probably the Massachusetts Institute of Technology, Cambridge, MA) for the administration of the Olympiad. Through its charitable gift, The Akamai Foundation will serve as host to the students, proctors, and exam graders for this three-day event. Students will also be treated to area tours, special guest speakers, and related social and mathematical activities.
- ✧ In June, there will be an enhanced Mathematical Olympiad Summer Program (MOSP) program, expanding the number of students to over 100 with special emphasis on including younger, female and minority participants.

The

American Mathematics Competitions

are Sponsored by

The Mathematical Association of America — MAA www.maa.org/
The Akamai Foundation. www.akamai.com/
University of Nebraska – Lincoln — UN-L www.unl.edu/

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National Association of Mathematicians — NAM .. <http://dimacs.rutgers.edu/~nate/orgs/namk/index.html>
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