

# MATH CLUB PACKAGE

Once again we are offering a Math Club Package. This will include a Club Advisor's Handbook, including 50 different problems, presented in the same format as the Student Practice Questions in the back of the 2005-2006 AMC Teacher Manuals. In addition, we plan to have web based resources such as a mini quiz of the month and a question of the week for club use.

The

American Mathematics Competitions  
are Sponsored by

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The National Association of  
Secondary School Principals (NASPP)  
has placed the AMC 8, AMC 10, and  
AMC 12 on the NASPP National  
Advisory List of Contests and  
Activities for 2006-2007.



2004 IMO -- Athens, Greece

2005 IMO -- Mérida, Yucatán, México

2006 IMO -- Ljubljana, Slovenia



The Mathematical Association of America  
American Mathematics Competitions  
University of Nebraska - Lincoln  
P. O. Box 81606  
Lincoln, NE 68501-1606

## Teacher Comments:

This is the first time I've participated, and I am pleased. I will use these questions on my warm-ups so students will know the correct answers and discuss strategies. Thank you.

I like the practice options with the kit and web and the flexible time frame.

I will continue to run the AMC contests as the questions are so good and our students get a lot from trying them. Thank you for the effort that goes in to producing such a rich variety of questions each year.

In my middle school classes, important results we learned from practicing on the AMC 8 ... material become fair game for the next test -- I actually expect the kids to remember ..... There's no reason kids should be expected to learn (and be able to use) only the material in their textbook.

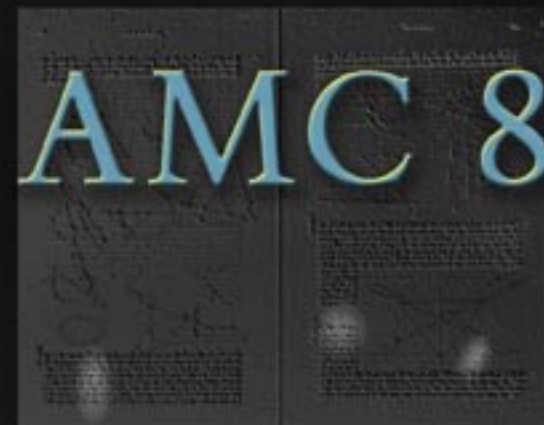
The richness of these problems has been a great place for math discussions for the couple of days following the exam each year, where we can talk about math and not be worrying about some grade for the class.

**For information on the American  
Mathematics Competitions, visit  
our website:  
<http://www.unl.edu/amc/>**

## 2006-2007 AMC contest dates:

AMC 8 - TUESDAY, November 14, 2006  
AMC 10 & 12 - TUES., February 6, 2007  
&/or WED., February 21, 2007  
AIME I - TUES., March 13, 2007  
or WED., March 28, 2007  
USAMO - April 24-25, 2007

# Make Mathematical History



## American Mathematics Competitions

The Mathematical Association of America



[www.unl.edu/amc](http://www.unl.edu/amc) [amcinfo@unl.edu](mailto:amcinfo@unl.edu) 800/527-3690

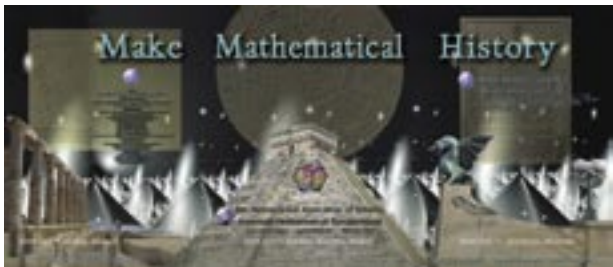
# AMC 8

Join the thousands of students who will take part in the 22nd Annual American Mathematics Competitions - AMC 8. The AMC 8 (American Mathematics Contest 8) for middle school students (8<sup>th</sup> grade and below), **will be given in each participating school on TUESDAY, NOVEMBER 14, 2006**, in a convenient 40-minute period.

## 1. PURPOSE

The Mathematical Association of America wants to increase interest in mathematics and to develop problem solving through a friendly competition that is also fun. The questions range in difficulty from easy to very difficult in order to appeal to a broad range of students.

When you register for the AMC 8 or the AMC 10/12 this year, we will include a free gift – a set of three posters, each 17"x22", on this year's theme **Make Mathematical History**.



## 2. PARTICIPATION & ELIGIBILITY

The AMC 8 is for students in the sixth, seventh or eighth grade; accelerated fourth and fifth grade students also take part. 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 correctly solved. The material covered is the middle school mathematics curriculum. This includes, but is not limited to, such topics as:

- ⇒ Probability
- ⇒ Spatial Visualization
- ⇒ Estimation
- ⇒ Everyday Applications
- ⇒ Percent
- ⇒ Reading/interpreting graphs

No problem requires the use of algebra or a calculator.

AMC 8 Eligibility extends to any student 14.5 years of age or younger on the day of the contest, and not enrolled in grades 9, 10, 11 or 12 or equivalent.

This contest is for individual recognition. All answer forms will be scored in the AMC office.

## 3. ADMINISTRATION

The AMC 8 will be given in each participating school on TUESDAY, NOVEMBER 14, 2006, in a convenient 40-minute period. Administration on a later date (Nov. 15-Nov. 21) is permitted in cases of academic conflicts or school closings. For other scheduling issues please contact the AMC Office.

Home schools must indicate the site of the exam outside the student's home and the name of the non-parental proctor. Attach this information to the registration form. Please call the AMC office for details.

## 4. REGISTRATION AND FEES

You can register by mailing the Registration Form included with this brochure or on the web at [www.unl.edu/amc](http://www.unl.edu/amc).

- Registration & Standard Shipping	\$33
- Registration & Expedited Shipping (Oct. 11-Nov. 1)	\$43
- Registration & Overnight Shipping (Nov. 2-Nov. 10)	\$53

One bundle of 10 contests will cost \$11.00. Schools using a credit card or purchase order may register at [www.unl.edu/amc](http://www.unl.edu/amc) or by fax at 402-472-6087. We accept Visa and Mastercard. When paying by check, please mail your registration form with payment well in advance of the deadline dates.

Spanish editions of the 2006 AMC 8 are available. Braille and large print editions are also available, for details please see the Registration Form. All requests must be made no later than three weeks before the contest.

Early registration will reduce your cost and provide you extra time to fully utilize the study guide found in the Teachers' Manual.

## 5. SCHOOL RESULTS & STUDENT AWARDS

Each participating school receives a copy of the contest and solutions, individual school results, school awards, an engraved school award plaque and the National Summary of Results and Awards booklet.

National Awards are given to all official participants who make a perfect score. An elegant award plaque is given to the top scoring student(s) in each state.

In addition, there are a variety of student awards provided. Please see our web site for details.

## 6. SLIFFE AWARD



The "Edyth May Sliffe" Award is given each year to fifty teachers from high scoring AMC 8 schools. This award includes a \$100 check, one year's dues in the National Council of Teachers of Mathematics, a Teacher Recognition Certificate and an Award pin. Award winners are honored at a reception during the annual NCTM spring meetings.

## 7. 2004 AMC 8 SAMPLE QUESTIONS

1. Connie multiplies a number by 2 and gets 60 as her answer. However, she should have divided the number by 2 to get the correct answer. What is the correct answer?  
(A) 7.5 (B) 15 (C) 30 (D) 120 (E) 240
4. A square and a triangle have equal perimeters. The lengths of the three sides of the triangle are 6.1 cm, 8.2 cm and 9.7 cm. What is the area of the square in square centimeters?  
(A) 24 (B) 25 (C) 36 (D) 48 (E) 64
10. Joe had walked half way from home to school when he realized he was late. He ran the rest of the way to school. He ran 3 times as fast as he walked. Joe took 6 minutes to walk half way to school. How many minutes did it take Joe to get from home to school?  
(A) 7 (B) 7.3 (C) 7.7 (D) 8 (E) 9
12. Big Al, the ape, ate 100 bananas from May 1 through May 5. Each day he ate six more bananas than on the previous day. How many bananas did Big Al eat on May 5?  
(A) 20 (B) 22 (C) 30 (D) 32 (E) 34
18. How many three-digit numbers are divisible by 13?  
(A) 7 (B) 67 (C) 69 (D) 76 (E) 77