



## WELCOME TO THE 33RD **AMC 8** COMPETITION

---

# 11.14.2017

*Students all over the  
country will compete!*

---

### What is the MAA AMC Program?

The Mathematical Association of America's American Mathematics Competitions program leads the nation in strengthening the mathematical capabilities of the next generation of problem solvers. Through classroom resources and friendly competition, the MAA AMC program helps America's educators identify talent and foster a love of mathematics. The MAA AMC program positively impacts the analytical skills needed for future careers in an innovative society.

The MAA American Mathematics Competitions are a series of examinations and accompanying curriculum materials that develop problem-solving skills and mathematical knowledge in middle and high school students.

### What is the AMC 8?

The AMC 8 is a 25-question, 40-minute, multiple choice examination in middle school mathematics designed to develop students' problem-solving skills and interest in mathematics.

### When is the AMC 8?

This competition is administered around the country on November 14, 2017. However, the competition may be given officially during the week of November 14-21, 2017 if there are circumstances which prevent the school from administering the competition on November 14, 2017. Registrations are accepted until October 31, 2017 for participating institutions located in Canada, Alaska, Puerto Rico, Hawaii, Guam, and the Northern Mariana Islands and until November 7, 2017 for participating institutions located within the continental United States.

### Why Host the AMC 8?

- By the time students reach high school, many have formed a perception of mathematics without fully exploring their own potential as analytical thinkers and problem solvers. The AMC 8 helps middle school students discover their love of problem solving and develop their potential.
- The AMC 8 helps middle school students develop positive attitudes towards analytical thinking, a skill that is highly valued by universities and employers. The AMC 8 connects classroom skills to unique problem-solving challenges in a low-stress, friendly environment.
- Over 1 million additional STEM graduates will be needed by 2022 to meet the growing demands of the labor market. The AMC 8 can help your students identify an interest in and prepare them for future STEM careers that will challenge and fulfill them.

### Important Dates

October 27, 2017	Final day to order additional AMC 8 bundles for participating institutions located in Canada, Alaska, Puerto Rico, Hawaii, Guam, and the Northern Mariana Islands.
October 31, 2017	AMC 8 regular registration deadline.
November 3, 2017	Final day to order additional AMC 8 bundles for participating institutions located within the continental United States.
November 13, 2017	Have students pre-fill all name and demographic information on answer sheets.
<b>November 14, 2017</b>	<b>Official AMC 8 competition date.</b> The AMC 8 may be administered from November 14, 2017 until November 21, 2017.
November 15, 2017	Return answer sheets to the MAA AMC office the day after competition administration. Ship with appropriate postage using a trackable method. FedEx or UPS strongly recommended.
December 1, 2017	Last day that AMC 8 answer sheets will be accepted by the MAA AMC office for scoring.

# Pre-Exam Preparation

## How do you Prepare Students for the AMC 8?

The best way to prepare students for the MAA American Mathematics Competitions is to practice creative, analytical thinking throughout the year. Schools involved with the MAA AMC often have year-round activities connected to special classes, math clubs, or other extracurricular groups. Individual students can benefit greatly from practicing math problems from past MAA AMC exams. The MAA AMC offers a [variety of resources](#) designed to improve the problem-solving skills of students.

## Who is Eligible to Participate in the AMC 8?

Students with a passion for problem-solving who are in grade 8 or below and under 14.5 years of age on the day of the competition are eligible to participate in the AMC 8.

## Benefits for Teachers

Teachers and competition managers who register their school for the AMC 8 exam receive a complimentary K-12 Teacher Membership to the Mathematical Association of America. The membership benefits for you and your classroom include:

- Access to the [MAA Curriculum Inspirations project](#), which provides free video and print materials, based on past AMC questions designed to help educators teach students creative problem-solving skills. All Curriculum Inspirations videos and materials are cross-referenced to the Common Core State Standards in mathematics and designed to capture your students' interest in mathematics.
- Digital resources sent to your inbox throughout the year. These include MAA AMC program updates, practice problems, classroom tips and the latest math news.
- A subscription to [Math Horizons](#), a quarterly digital magazine with articles, problems, contests, student research profiles, career ideas, and book reviews.
- A subscription to [MAA FOCUS](#), a bi-monthly digital newsmagazine full of ideas about mathematics and the mathematics community.
- The opportunity to enroll your students in AMC Advantage, an on-demand, self-paced online prep course for students of all levels. AMC Advantage offers skill-building problem sets on key AMC topics as well as full-length practice exams and solutions.

## Pre-Exam Checklist for AMC 8:

- Have students pre-fill all name and demographic information on their answer sheet prior to the competition day. Students must use their full legal name, no nicknames or abbreviations. They should pay careful attention to marking their name and address accurately. Failure to do so could disqualify their results or cause delays in scoring. The most common errors are filling in more than one circle in a column, not completely filling in the circles, or failing to use a #2 pencil. **The MAA AMC program office will not edit the information provided on the answer sheets.**
- Reserve a quiet room for at least 70 minutes on the day your school will hold the competition to allow time for pre- and post-competition activities.
- Review the rules on the AMC 8 Competition Certification Form that is included with the AMC 8 competition materials.
- Remind students of the time and location of the AMC 8 prior to the competition.
- Obtain a supply of #2 pencils and unmarked scratch paper. Inform students that no aids are permitted other than scratch paper, graph paper, rulers, protractors, and erasers. **NO CALCULATORS OR ELECTRONIC DEVICES OF ANY KIND ARE ALLOWED.** No AMC 8 questions require the use of a calculator.

## Guidelines for Administering the Competition

- The competition is administered by a competition manager. This person is usually a teacher or coach and must be an adult who is not related to any of the participants. Under no circumstances may a parent administer the competition for their child.
- The competition must take place in a public building, (e.g., schools, universities, and places of worship).
- All students must take the competition at the same time, either in one group or in separate classrooms. Each group of students must be under the supervision of a competition manager or an adult who fully understands the responsibilities and is not related to any of the students.

# Competition Day

## Tips for First-Time Participants

- Encourage participation by students who have not taken these competitions before. Help them prepare and make sure they know what to expect.
- Make sure they set appropriate goals for themselves, so that the competition is a positive experience for every student. For new students, getting even a few questions correct is an accomplishment.
- Set aside post-competition class time for discussion of solutions, and inform students that they will get the chance to discuss the problems during the following week.

## Before the Exam

**Do not open the exam bundles until one hour before the start of the competition.**

- Seat students so they are separated by an empty space, if possible.
- Hand out the answer sheets with the students' pre-filled name and demographic information and provide a #2 pencil with a good eraser to each student.
- Open the exam bundles, hand out the AMC 8 competition booklets and inform students that they are not to open the competition booklet containing the problems until instructed to do so.
- Instruct students to read the entire front cover of the AMC 8 competition booklet. Allow 3 minutes for students to review the front cover.
- Tell the students to be AS CERTAIN AS POSSIBLE OF THEIR ANSWERS BEFORE THEY MARK THE ANSWER SHEET. Sheets that contain stray marks may not be read correctly by the scanner that scores the competition.
- Ask if there are any questions about the competition procedures. Inform students that talking or asking questions during the competition is not allowed. They must do their own work.
- When it is time to begin, tell the students to open the competition booklet. Remind them to be careful to match their answers to the corresponding problem. Remind students that there are 25 problems and that they have 40 minutes to complete the competition. Then tell them to begin.

## During the Exam

- Provide as quiet an environment as possible.
- Participants should be continuously monitored by the competition manager during the competition.
- Be sure that no student has access to any electronic devices, including calculators and cellphones, during the competition.
- Warn any students whose eyes wander, and disqualify any students that are clearly copying answers or collaborating.
- Make an announcement to the students when there are 15 minutes left and again when there are 5 minutes left.
- When time is up after 40 minutes, tell the students to STOP and have them sign their name in the space provided at the bottom of the answer sheet. Collect the answer sheets and competition booklets as quickly as possible. Competition booklets may be returned to the students after November 22, 2017.
- Inform the students that the competition and solutions may not be discussed with anyone outside of the room either orally or digitally (e.g. email, online, and social media of any type) until after November 22, 2017.



**CHECK EACH STUDENT  
ANSWER SHEET FOR  
COMPLETE AND CORRECT  
NAME AND DEMOGRAPHIC INFORMATION**



# Competition Day

## After the Exam

- **Please do not score the answer sheets.** Send them to the MAA AMC for scoring.
- Check each student answer sheet for complete and correct name and demographic information.
- Arrange the answer sheets by section (if applicable) and organize them so that each sheet faces the same direction with the same side up. Remove all paper clips, rubber bands, and note paper attached to answer sheets. Make sure that no two sheets are stuck together.
- Place no more than 200 sheets in one report envelope.
- Do not return blank sheets or sheets you do not wish to be scored.
- Complete the [Competition Certification Form](#), and ask your principal or person with comparable title to sign the [Competition Certification Form](#) and complete their section of the form.
- Place the School ID Form on top of the answer sheets and insert them into the report envelope.
- Place the [Competition Certification Form](#) in the AMC 8 report envelope with the answer sheets and seal the envelope. Return the report envelope to the MAA AMC office the day after competition administration. Ship with appropriate postage using a trackable method. FedEx or UPS strongly recommended. The MAA AMC is not responsible for lost or delayed answer sheets. **December 1, 2017** is the last day that AMC 8 answer sheets will be accepted by the MAA AMC office for scoring.
- Indicate the total number of report envelopes you are shipping to the MAA AMC office in the space provided.
- AMC 8 answer sheets submitted for scoring will not be returned to your school.
- After you have mailed all of your report envelopes, you may discuss the competition and solutions with your students. Remember that there will be schools taking the competition in other locations on different days and at different times between November 14, 2017 and November 21, 2017. It is important that no one discusses problems and solutions in any online or public forum.

## AMC Toolkit:

### Results and Resources for Competition Managers:

Score reports will be emailed to competition managers as part of the *AMC Toolkit: Results and Resources for Competition Managers* as soon as the answer sheets are scored. If you do not receive your results via email from the MAA AMC program within 30 days of administering the AMC 8, please contact [amcinfo@maa.org](mailto:amcinfo@maa.org) to verify that your answer sheets were received.

Please retain the digital score report for future reference. Many students cite these scores on applications to college and other programs. The MAA AMC cannot look up individual student scores after the competition cycle has been completed.

The *AMC Toolkit* is also a valuable resource for your classroom! You can use it to:

- Access your students' results.
- Find resources for problem-solving lessons.
- Explore [MAA's Top Ten Problem-Solving Strategies](#) to find videos and essays that bring excitement to mathematics learning and thinking.
- Download and print fillable PDF certificates to recognize student participation and high scores on the AMC 8. Please note that the MAA AMC has discontinued distribution of pins and physical awards for students.

Please add [amcinfo@maa.org](mailto:amcinfo@maa.org) to your list of approved email contacts so that you receive important emails.

---

**SCORE REPORTS WILL BE EMAILED TO  
COMPETITION MANAGERS  
AS SOON AS ANSWER SHEETS  
ARE SCORED**

---

# AMC Policies

## Policy for Changes

The MAA Committee on American Mathematics Competition may change the program rules, regulations, awards and conditions of participation in whole or in part. Whenever possible competition managers will be notified of these changes ahead of time.

## Early Administration

Early administration is NEVER permitted and will result in DISQUALIFICATION of all scores from your school. Early administration jeopardizes the validity of all scores from other schools.

## Official Administration

The AMC 8 should be given officially on the first day that the school has an available testing time. Competition managers should prioritize administering the competition as close to, but not before, November 14, 2017.

Please note that because the competition may be given officially during the entire week from November 14 to November 21, 2017, you must collect the students' competition booklets and instruct them not to discuss the competition questions and solutions outside of the group that took the AMC 8 together until after November 21, 2017.

## Unofficial Administration

The AMC 8 can be administered unofficially after November 21, 2017. Answer sheets will be scored but results will be considered unofficial. Be sure to mark the exceptions box at the bottom of the [Competition Certification Form](#) as indicated when submitting answer sheets from unofficial administration. December 13, 2017 is the last day that AMC 8 answer sheets from unofficial administrations will be accepted by the MAA AMC office for scoring.

## Refund/Credit Policy

If your school is unable to take the competition, please use the materials as practice sets to prepare for next year's competition or as supplemental classroom materials. Do not return the competition materials. WE CANNOT GIVE REFUNDS OR CREDITS AFTER THE COMPETITION MATERIALS HAVE BEEN SHIPPED.

## Students with Accommodation Plans

The AMC 8 time limit for students who require accommodations (e.g., for physical and learning disabilities) is 70 minutes. A teacher or a school administrator may read the questions to the student and mark the answers as directed by the student. Braille and large print competition booklets must be ordered by October 17, 2017 for participating institutions located in Canada, Alaska, Puerto Rico, Hawaii, Guam, and the Northern Mariana Islands and by October 24, 2017 for participating institutions located within the continental United States. It is the responsibility of the school and the competition manager to make arrangements consistent with the student's accommodation plan. Please contact MAA AMC at [amcinfo@maa.org](mailto:amcinfo@maa.org) for more information.

## Questionable Scores

If it is clear to the competition manager from personal observation that a student has cheated, then the competition manager must disqualify that student. If the competition manager receives an accusation or obtains indirect evidence of cheating, then the competition manager must hold back the student's paper and immediately report all the facts of the situation to the MAA AMC Office at [amchq@maa.org](mailto:amchq@maa.org). The MAA AMC Director, in conjunction with the MAA Committee on American Mathematics Competitions, will determine what to do. UNDER NO CIRCUMSTANCES may the school decide on its own to accept a questionable score.

---

**GOOD LUCK TO YOUR STUDENTS  
ON THE AMC 8!**

We hope they find the competition  
to be a challenging and exciting  
**FIRST STEP TOWARDS**  
a future in analytical thinking.

---