

***Saturday, February 18, 2017***

**The 5th and 6<sup>th</sup> Grade  
PROBLEM SOLVING TOURNAMENT**

Sponsored by the  
**GREATER CLEVELAND COUNCIL OF TEACHERS OF MATHEMATICS**  
[www.mycctmonline.org](http://www.mycctmonline.org)

October 2016

Dear Educator,

The Greater Cleveland Council of Teachers of Mathematics is pleased to invite you and your 5th or 6th-grade students to participate in the 36<sup>th</sup> annual Problem Solving Tournament.

*The purposes of this tournament are to:*

- \*Promote enthusiasm for mathematics among students in the fifth and sixth grades*
- \*Recognize students for their interest, perseverance, and talent in mathematics and problem solving*
- \*Challenge these students in an energizing and competitive setting*
- \*Celebrate community-wide the achievements of these young mathematicians*

This year's tournament will be held on **Saturday, February 18**, at 14 sites located throughout the Greater Cleveland area. **We appreciate the generous commitment of our teacher hosts and their system administrators, for providing facilities for this tournament.**

The Tournament problems support and extend Ohio's Learning Standards in Mathematics. Preparation for the Tournament provides excellent practice and enrichment for state assessments. The application of skills required in the Tournament can assist students in reaching Accelerated or Advanced Levels of the Performance Index and enhance your Value Added score on your school's Report Card.

The best preparation for you and your students is to practice problems from previous tournaments, which are distributed yearly at each tournament site. Some problems from past tournaments are available on our website. This registration packet may be viewed and downloaded at the GCCTM website:  
[www.mycctmonline.org](http://www.mycctmonline.org).

**Note to HOST SITE COORDINATORS:**

*GCCTM will pay the registration fees for up to four of your teams. However, to reserve enough space, you must register all of your teams on the Registration Form / Invoice, and send it in ASAP.*

**GCCTM**  
**5th and 6th-Grade PROBLEM SOLVING TOURNAMENT**  
**2015**

**REGISTRATION COORDINATOR:** Kristen McGinness  
**E-mail:** mcginnessgcctm@gmail.com  
**Voice mail:** 216-798-6651

**TEAM ALLOWANCE & FEES:** Teams will consist of 4 students of the same grade. We decided to not put a limit on the number of teams a school can register, however, there is a chaperone requirement. Please see supervision below.

A fee of \$20 is charged for each team entering the tournament. Because of the format of the tournament, teams of less than four members will not be registered. Each team will consist of exactly four fifth-graders, or exactly four sixth-graders. No team will register students from more than one grade level.

Because space is limited at each tournament site, **registrations will be accepted until January 13th**, or until all available space is filled, whichever comes first. To register, go to GCCTM's Contests page at <http://mygcctmonline.org/contests.php>.

**SUPERVISION:** Each school must send at least one faculty member for every 4 teams to help supervise and facilitate the tournament. If a school is sending less than 4 teams, at least one supervisor must accompany them.

**MATERIALS:** Each student should have sharpened pencils, a calculator, a protractor (no geometry templates), and a ruler (metric/customary combination). Other materials will be supplied.

**TIME SCHEDULE:** We try to adhere as closely as possible to the schedule below at all sites. Special conditions may cause times to vary.

- 8:30 a.m. - Registration (name tags, table assignments, etc.)
- 8:50 - Welcome and instructions
- 9:00 - The four tournament events
- 10:45 - Refreshments
- 11:15 - Awards Ceremony

(Encourage parents and other family members to be present for the awards ceremony.)

**EVENTS:** The items used in this tournament will consist of challenging problems that reflect the expectations detailed in the Ohio's New Learning Standards and by the National Council of Teachers of Mathematics. The problems will be prepared by a committee of GCCTM members. This group or its representatives will act as arbiter in all questions regarding the scoring of this tournament.

### **TOURNAMENT PROCEDURES:**

Each team will compete in four events which make up the tournament. Calculators are permitted throughout the tournament except for Event II. \*Note below change to Event II from last year.

The times given are the approximate total working times for each event.

I. In the first event, the team members will work together to solve two rounds of 4 problems each. Each problem will be worth ten points. (~ 16 minutes each round)

II. \*The second event will consist of 10 mental computation problems, presented orally, that require students to determine the value of a point on a number line given clues about other points on the number line. Students will work as a team during this event. Only one student is permitted to hold a pencil and write down each answer for the team. Calculators are not used during this event. (~10 minutes)

III. The third event will be a team construction activity. Each team will read and follow a set of written directions to construct a picture on 8 1/2" x 11" paper. This event will require application of measurement, geometry, and number sense. Each student should bring a ruler (metric/customary combination) and a protractor (no geometry templates). Each member may work on her own practice paper, but only ONE final entry by the entire team will be submitted and scored. (~15 minutes)

IV. The fourth event will consist of mixed-application problems. The team members will work together during this event. (~15 minutes)

**GUESTS:** Parents and guests are encouraged to support their students by attending the Awards Ceremony following the competition. Please communicate this clearly to parents. Guests are not permitted in the competition or grading rooms during the tournament.

**AWARDS:** Each student on a team entered in the tournament will receive an award. Each team will be called to the front of the assembled participants to receive their awards. Members of the teams scoring in the top 20% of the competition in each grade level will receive trophies. The next 40% of the teams in each grade level will receive blue ribbons imprinted CHAMPION. Members of the teams in the next 40% of the ranking by scores will be awarded red ribbons imprinted SPECIAL AWARD.

**PUBLICITY:** There is a press release that you may use regarding participation in the tournament. We REQUIRE one limitation. **This tournament is in NO way planned to be a comparison of the participating schools or school systems.** Therefore, any publicity released by any school will neither contain nor imply such comparison. At the Tournament, students are not to wear any clothing, etc. that advertises their school name, or school mascot. Schools which cannot comply with this condition are asked not to participate in the GCCTM Problem Solving Tournament.

**5<sup>th</sup>/6<sup>th</sup> TOURNAMENT SITES 2017**

<p><b>Chardon Middle School</b> 424 North St. Chardon, OH 44024</p> <p><b>Elyria High School</b> 601 Middle Ave Elyria, OH 44035</p> <p><b>Harmon Middle School</b> 130 Aurora Hudson Dr. Aurora, OH 44202</p> <p><b>Henry Defer Intermediate School</b> 1895 Annalane Dr Streetsboro, OH 44241</p> <p><b>Holy Name High School</b> 6000 Queen's Highway Parma Heights, OH 44130</p> <p><b>J. A. Garfield Intermediate</b> 8233 Park Ave. Garrettsville, OH 44123</p> <p><b>John Carroll University</b> 1 John Carroll Blvd University Heights, OH 44118</p>	<p><b>Kidder Elementary</b> 3650 Grafton Rd Brunswick, OH 44212</p> <p><b>Lake Ridge Academy</b> 37501 Center Ridge Rd. North Ridgeville, 44039</p> <p><b>Lakewood Catholic Academy</b> 14808 Lake Rd. Lakewood, 44107</p> <p><b>Mayfield Middle School</b> 1123 SOM Center Rd. Mayfield Hts., 44124</p> <p><b>Midview East Intermediate School</b> 13070 Durkee Rd. Grafton, 44044</p> <p><b>St. Gabriel School</b> 9935 Johnnycake Ridge Rd. Concord, OH 44060</p> <p><b>Stanton Middle School</b> 1175 Hudson Rd. Kent, OH 44240</p>
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SPONSOR: The Greater Cleveland Council of Teachers of Mathematics is made up of educators in the Greater Cleveland area interested in mathematics education. Other annual activities of the Council include a tournament for 7th and 8th grade students, a Spring Awards Banquet, and a variety of workshops & professional development meetings throughout the school year. The Council also publishes its newsletter, NUMBER NOTES, five times each year. If you are interested in joining GCCTM, please visit [www.mygcctmonline.org](http://www.mygcctmonline.org).