

33rd Annual KCATM Math Contest

February 25th, 2012

Olathe East High School

Registration forms are due February 13, 2012.

NO late registrations will be accepted.



Contest Coordinators: Jo Weller, jweller@stteresasacademy.org, and Adam Wade, AWade@bluevalleyk12.org
 Patrick Flynn, pflynnoe@olatheschools.org (note change in email address to .org)

Please note the change: ALL schools will compete against each other in ONE Division for 2012. **Please limit the number of students to a maximum of ten per grade level.**

Tests:

Each exam is 20 minutes, multiple choice. Each **CORRECT** response will earn **4 points**, and each **INCORRECT** response will be a deduction of **1 point**. Ties will be broken by a **random** selection of the problems in the grading room.

Rule Clarifications: Official decisions on any question or procedural matter will be made at the time they arise. These decisions will be made in the grading room. The contest coordinator will communicate the final decision.

Calculators: **NO TI89, TI92, or TI-Nspire-CAS calculators are allowed.** Students using them will be **disqualified** from the event. *Please check your students' calculators prior to arriving at the contest. It is your responsibility!*

Awards: Medals will be given to the top 5 students in each individual event. The sum of all four individual exams will be used to determine the **Top 9th, 10th, 11th, and 12th graders**. They will be recognized with plaques and medals. Medals will also be given to 2nd and 3rd place Top Grade students. A ranking of the top 10 students in each event and each grade level will be made available to the sponsors at the awards ceremony. The top student in each test will be recognized at the Annual KCATM Banquet the first week in May. The top Mathletics team members will also be invited to the banquet.

TEAM Scoring: *Please note the weighting of team events contribute greatly to the team score.*

- A. Individual events will be scored 8, 5, 3, 2, 1 for places one through five.
- B. Team events will be scored 12, 10, 6, 4, 2 for places one through five.

SCHEDULE OF EVENTS

8:45 Proctors PICK up tests in grading room and report to the assigned testing room.

(No check in, rosters will be updated in the grading room.)

| TIME | 9 th (20 minutes) | 10 th (20 minutes) | 11 th (20 minutes) | 12 th (20 minutes) | TEAM TESTS (20 minutes) |
|---------------------|---------------------------------|----------------------------------|-------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9:00 | Algebraic Equations | Algebraic Equations | Algebraic Equations | Probability & Statistics | After individual tests are finished, each school can create 4 teams (9 th - 12 th) for the team tests at 11:15. The testing rooms will be posted. See requirements below. |
| 9:30 | Geometry | Geometry | Trigonometry | Trigonometry | |
| 10:00 | Word Problems | Word Problems | Word Problems | Word Problems | |
| 10:30 | Number Sense | Graphing (calc. required) | Graphing (calc. required) | Calculus & Analytical Geo. | |
| 11:15 TEAM TESTS | ALGEBRA TEAM TEST (9-12) | GEOMETRY TEAM TEST (9-12) | WORD PROBLEM TEAM TEST (9-12) | ADV. MATH TEAM TEST (9-12) | TEAMS of 4 <i>Max: 2 seniors</i> <i>At least:</i> <i>1 sophomore OR</i> <i>1 freshman</i> |

Note: Each team test is located in the room corresponding to the grade level exams listed above.

12:15 MATHLETICS (1 team per 9-12 school) – Main Gym

1:15 AWARDS – Main Gym

Send registrations to JoAnn Hiatt: Fax: 913-780-7137; Email: jhiattoe@olatheschools.org (note change in email address)

HIGH SCHOOL GENERAL PARTICIPATION GUIDELINES

1. Only students currently enrolled in grades 9–12 may participate in the High School Division.
2. A school may enter a maximum of one team and a maximum of four students per written exam. An individual student may participate in a maximum of four individual exams and one team event.
3. Eligible students may take a test at or above grade level, but not below grade level.
4. **PLEASE have students mark their current grade on each test.** It is possible that a 10th grade student wins a 12th grade test, but that student cannot win Top 12th grader. The test score, regardless of the level, will contribute to an individual's total score at his/her current grade level.
5. Substitutions may be made the day of the event. Substitutions should be made in the grading room reporting student and grade.
6. No students will be admitted to a test after it has started. No exceptions will be made. Students will report directly to the room.
7. Graphing calculators except the TI89, TI92, & TI Nspire CAS will be allowed on all events except number sense. Please check calculators before arriving to avoid disqualification of an event.
8. All team events will run from 11:15–11:35 AM and must consist of only 4 students, **no more than 2 seniors and at least 1 sophomore or freshman.**
9. Senior high schools that have no freshmen may draw from their feeder junior high schools.

Read

INDIVIDUAL EXAMS

- The format of the individual exams will be multiple choice.
- Each **correct** response will be awarded 4 points.
- Each **incorrect** response will be a deduction of 1 point.

Read

MATHLETICS CONTEST RULES

1. Mathletics will start at 12:15 pm.
2. Each 9–12 school may enter only one team.
3. Teams are to consist of **3 members** each. Members may be from any grade.
4. Team members may collaborate on solving problems and calculators (except TI Nspire CAS, TI89, TI92) may be used.
5. Questions will be selected from all areas of mathematics through pre-calculus.
6. A point value will be assigned to each question depending on the difficulty of the problem.
7. A time limit will be specified for each question and will be printed on each question. The judge will announce when teams may commence working on a question and keep the official time. The judge will announce when 20 seconds remain and again when 10 seconds remain.
8. At the end of the 10 second period the judge will announce "Time." Any team not having its answer held up at that point will not receive points for that question.
9. All teams having the correct answer will hold their answer sheet in the air. It will be collected and checked.
10. All ties will be broken at the end of competition by additional questions.
11. Once competition starts, no changes in teams can be made.
12. Each registration must show each team member's name and grade level.
13. The top 3 teams will receive recognition. The top team will be invited to the Awards Banquet.

Schools entering the KCATM Contest are expected to:

- Provide one faculty member or adult sponsor for every 10 students. Sponsors will be assigned to proctor or grade during the competition. Please include your team's sponsor(s) on the school registration.
PLEASE BE AVAILABLE TO WORK. You may bring parents to help proctor, but not grade.
- One sponsor from each school must be a KCATM member. All sponsors are encouraged to be KCATM, KATM and/or MCTM, and NCTM members. ONE KCATM membership will be included with the entry fee.
- **List participants by grade.** Check the events each student will compete in on the registration form.
- Make checks payable to KCATM. Fees can be mailed or **paid the day of the contest, February 25, 2012.**
- **Registration forms are due February 13, 2012. NO late registrations will be accepted.**
- **Email** registrations to: jhiattoe@olatheschools.org or **Fax** registrations to: JoAnn Hiatt at 913-780-7137.

Information on room assignments for tests and sponsor assignments will be sent via email. Room assignments will also be posted.

Future Note: The Awards Banquet for 1st place winners will be in May at JCCC. Please encourage your winners to attend!