

To: All Math students in Algebra I and above (Pre-Algebra students may take the Algebra I test!)

DATES: All Wednesdays: **November 3, December 2, February 2, and March 2.**

Title of test: **Mathfax**

The cafeteria will open at 6:15 a.m.; all students must arrive by 6:59 a.m. Any student who arrives after 6:59 is **ineligible** to take the test.

- 1) No more than one test of any single subject at any table, i.e. a table can have one test of each subject at the table, but no more than one (unless the cafeteria is full – then be sure to have another person between two students taking the same test). The tests are color-coded. When you arrive, be sure to get into the correct line for the test you wish to take! The student picks up the correct test, and the teacher will hand the student a scantron with the time stamped.
- 2) If a student cheats or attempts to cheat, that student will earn NO credit for that test, AND will not be eligible to take any MATHFAX contests for the next four dates that it is offered. (including the following year).
- 3) NO TALKING is allowed during the time of testing. If a student speaks, except to ask a question of a teacher or parent in charge of the testing, the student's test will be collected, and no credit will be earned.
- 4) Students must spend **25 to 30 minutes** on the test. If a student spends less than 25 minutes, the student will have points deducted for their score. If a student spends more than 30 minutes, credit for correct answers will be subtracted from their test. Please watch your time! You are all math students, so we expect you to be able to add and subtract time!
- 5) Students who arrive after 6:59 a.m. will be considered ineligible to (CANNOT) take the test.
- 6) **No calculators** are allowed on these tests. Should a student have a calculator open at their table, it will be considered cheating. There will be no warning given. Refer to #2 for consequence.
- 7) Be sure that your PRINTED name, your math teacher's name is marked on **BOTH the test page and the scantron form**. The scantron must also have the SUBJECT written on it. You will turn in both, in separate stacks, on the table where the subject sign is located. **If any of this information has been left off the test page or scantron, one point of extra credit for each item deleted will be deducted from your score.**
- 8) Work is required on all problems that necessitate work. **Answer all questions.** There is no penalty for guessing. If there is a question about the score of a student, the test page will be examined for evidence of work steps. However, you are encouraged to look for shortcuts, since time is a factor in your completion and success of this test.

9)

EXTRA CREDIT

<u>CORRECT</u>	<u>EXTRA</u>	<u>CORRECT</u>	<u>EXTRA</u>
<u>ANSWERS</u>	<u>CREDIT</u>	<u>ANSWERS</u>	<u>CREDIT</u>
1 - 4	3	14-17	7
5 - 7	4	18-21	8
8-10	5	22-23	9
11-13	6	24-25	10

BE SURE TO ALLOW YOURSELF PLENTY OF TIME TO ARRIVE EARLY TO SCHOOL. ON MANY DAYS, THERE MAY BE CONDITIONS THAT NECESSITATE MORE TIME TO ARRIVE (including bad road conditions, weather, heavy traffic, etc.). **Plan to get here early!**

STUDENTS MUST HAVE A SIGNED "PARENT PERMISSION FORM" ON FILE FOR PUBLISHING NAMES ON THE INTERNET IN ORDER TO GET CREDIT FOR THE TESTS.

Please fill out the form before the first test you wish to receive extra credit

WEB page address to check your scores: www.educontest.com

STUDENT NAME (Printed, last name first)

GRADE _____ MATHEMATICS CLASS _____

To: the parents of students taking the MATHFAX CONTESTS for 2010/2011

RE: Posting of names and grades on the Internet

In order to enter the scores for our **top students** in this national contest, the Math Club sponsors must enter a name or a code number for our scores. This allows our students to check their own standing among other students and other school.

Due to a recent interpretation of the law of consent for posting of scores, we must have your written consent as parents or guardians of your students. Students earn merits and/or extra credit for these before-school contests, and appreciate your support.

It makes it easier for the Math Club sponsors if you choose the option of giving us permission to print the student's scores. Keep in mind that only the top 10-15 students will have their names posted, depending upon their scores on each event (only the top 4 are listed for any given event, but the name will continue on the list for the 5 months duration of the total competition). If a student does **not** give permission and they earn a top score, they will be listed by a student number, which we will not be able to reveal to them.

_____ I DO give my permission to post my son's /daughter's name on the MATHFAX Web-site.

_____ I DO NOT give my permission to post my son's /daughter's name on the MATHFAX Web-site, but request instead that a number of reference be Used instead. Numbers will be selected at random, and unfortunately due to the large number of students who participate, will not be released to students or parents.

Parent/Guardian Signature _____

Date _____

Alternate Extra Credit for Mathfax for Students who lack transportation on the days of Mathfax:

This option is open only to students who have a transportation hardship. A note from the parent indicating the transportation hardship must accompany this paper. The maximum extra credit value for this typed, double spaced report is 5 points, the average sampled score from last year's MATHFAX contest scores. **Students must make this arrangement before the MATHFAX contest, not afterwards.** A note from your parent indicating the transportation hardship must be turned in before the date of the MATHFAX contest. In other words, the note from your parent explains why the student will NOT be able to attend MATHFAX on the given date. The last date that the note will be accepted is the day before the contest. The final typed paper is due the day of the contest.

The following mathematicians have made important contributions to mathematics. Students are to write a report **on their contributions to mathematics**. Be sure to include your bibliography, that is, your cited source or Website that you used for your information. The paper is to be 300 - 350 words, typed, double-spaced, with one-inch margins. An introductory sentence or paragraph will tell the dates the mathematician lived and worked. Successive paragraphs will indicate their outstanding work in mathematics. Maximum credit for this task is 5 points. This will not be entered as a MATHFAX score, but will be used for the same area for extra credit. Your teacher will assign one of the mathematicians from the list below. A note from your parent indicating the transportation hardship must be turned in before the date of the MATHFAX contest. In other words, the note from your parent explains why the student will NOT be able to attend MATHFAX on the given date. The last date that the note will be accepted is the day **before** the contest.

The final typed paper is due the day of the contest.

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|-------------------------------------|---|
| 1. Maria Gaetana Agnesi | 33. Emily Noether |
| 2. Appolonius | 34. Abu Ja'far Muhammad ibn Musa Al-Khwarizmi |
| 3. Archimedes | 35. Gottfried von Leibniz |
| 4. Aristotle | 36. Eudoxus |
| 5. Johann Bolyai | 37. Leonardo Fibonacci |
| 6. Emilie de Breteuil (du Chatelet) | 38. Christiaan Huygens |
| 7. Nicolaus Copernicus | 39. Jean-Baptiste Joseph Fourier |
| 8. Rene Descartes | 40. Alice Sun-Yung Chang |
| 9. Albert Einstein | 41. Arthur Cayley |
| 10. Erastosthenes of Cyrene | 42. Augustin-Louis Cauchy |
| 11. Leonard Euler | 43. Georg Cantor |
| 12. Euclid | 44. Alfred North Whitehead |
| 13. Pierre Fermat | 45. Norbert Wiener |
| 14. Galileo | 46. Bernard Riemann |
| 15. Karl Gauss | 47. John F. Nash |
| 16. Martin Gardner | 48. Menelaus of Alexandria |
| 17. Sophie Germain | 49. Lui Hui |
| 18. William Rowan Hamilton | 50. David Hilbert |
| 19. Heron of Alexandria | 51. G.H. Hardy |
| 20. Caroline Herschel | 52. Abraham DeMoivre |
| 21. Hypatia | 53. August Ferdinand Mobius |
| 22. Hipparchus | 54. George Boole |
| 23. Hippocrates of Chios | 55. Henri Poincare |
| 24. Johann Kepler | 56. Ptolemy |
| 25. Sonya (Sofia) Kovalesky | 57. Pythagorus |
| 26. Pierre Laplace | 58. Bertrand Russell * |
| 27. Nicolai Lobachevsky | 59. Mary Farifax Somerville |
| 28. John Napier | 60. Thales of Miletus |
| 29. Isaac Newton | 61. John Von Neumann * |
| 30. Pappus of Alexandria | 62. Plato |
| 31. Blaise Pascal | 63. Guiseppi Peano * |
| 32. Norbert Weiner | 64. David Hilbert * |

Suggested WEBSITE: <http://www-groups.dcs.st-andrews.ac.uk/~history/index.html>