Pre Math Olympiads and Math Contest (for 4-5th grade students)

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Materials: Math Olympiads Contests (Division E), Math League contests, three official contests of Math Olympiads program Division E

Format: One or two contests and explanations through problem-solving strategies and techniques.

This class is dedicated to bringing challenging mathematics materials to students. The goal is to encourage student interest and confidence in mathematics through solving contest problems. The main focus will build student's problem-solving/techniques skills; promotes logical thinking and sharpens students' analytical abilities through multiple-choice questions/competition problems in restricted times. Problem-solving strategies/techniques will be teaching during the class such as looking for a pattern, drawing a diagram, making an organized list and so on. Questions may cover: basic topics, plus exponents, fractions, reciprocals, decimals, rates, ratios, percents, angle measurement, perimeter, area, circumference, basic roots, patterns, sequences, integers, triangles and right triangles, and other topics.

Our school will participate Math Olympiads program from Mathematical Olympiads for Elementary and Middle Schools, MOEMS®, Division E (up to grade 6) starting Fall 2017. Certificates will issue to all students, one Highest Individual Scorer will get a trophy, and awards for about 50% of all participating students.

Besides official Math Olympiads contests and Math League contest, our class will help students to prepare various math contests, such as Continental Math League (CML), Math Kangaroo, fun and challenging problems from other resources too.

Syllabus

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1st Session: Warm up, introduction, syllabus, quiz etc.

2nd Session: Set 1 Olympiad 1, Math Contest 4th (1)

3rd Session: Set 1 Olympiad 2, Math Contest 4th (2)

4th Session: Set 1 Olympiad 3, Math Contest 4th (3)

5th Session: Set 1 Olympiad 4, Math Contest 5th (1)

6th Session: Set 1 Olympiad 5, Math Contest 4th (4)

7th Session: Math Olympiads E 2014-2015 1 and follow-ups

8th Session: Math Olympiads E 2014-2015 2 and follow-ups

9th Session: Official Math Olympiads Content E1

10th Session: Math Olympiads E 2014-2015 3 and follow-ups

11th Session: Math Olympiads E 2014-2015 4 and follow-ups

12th Session: Official Math Olympiads Content E2

13th Session: Math Olympiads E 2014-2015 5 and follow-ups

14th Session: Math Contest 4th (5), Math Contest 5th (2)

15th Session: Official Math Olympiads Content E3

16th Session: Final Exam