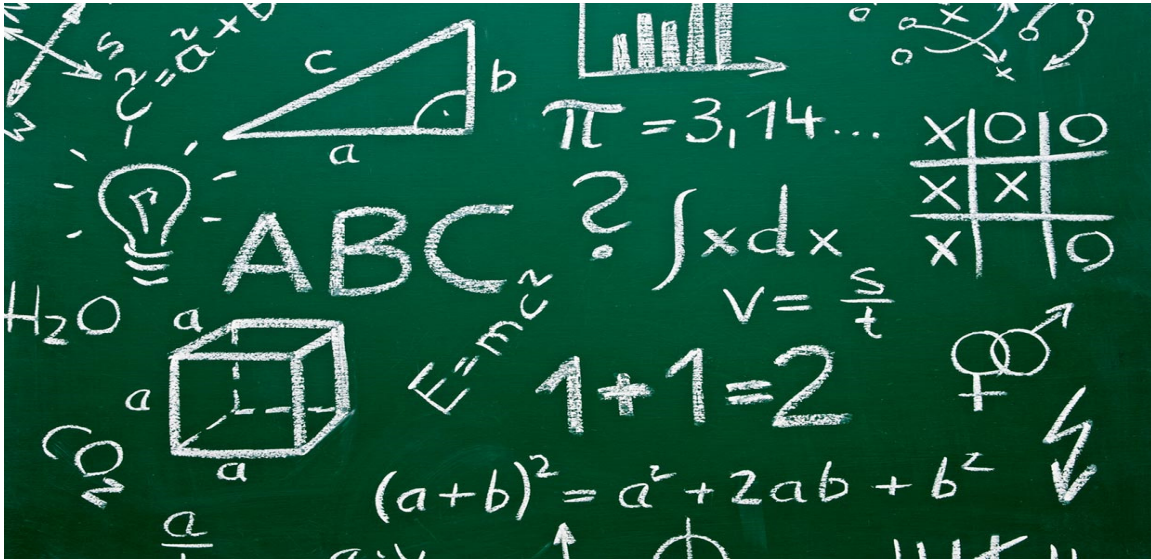


TAGB Math Challenge 2016 Sponsored by Ho Math and Chess-Easton



Goals of the TAGB Math Challenge 2016 are:

- Encourage students to master and use their mathematical knowledge.
- Math Application: understanding how Mathematics applies to nature's laws and human activities.
- Develop students' ability to derive pleasure and satisfaction through the intellectual life associated with Mathematics.
- Show that mathematical thinking and abilities are significant globally.

The resilience developed from math contest experiences support healthy attitudes when youth are confronted with challenges and failures as an adult. Math contests are a tremendous social and intellectual opportunity for students. Preparation for competitions provides opportunities for students to explore non-routine problems not usually encountered as part of the regular mathematics curriculum.

General Description:

- ◆ There are 4 levels of competition that correspond with school grade levels, as:
 - **Level 1 = 1st Grade and 2nd Grade**
 - **Level 2 = 3rd Grade and 4th Grade**
 - **Level 3 = 5th Grade and 6th Grade**
 - **Level 4 = 7th Grade and 8th Grade**

TAGB Math Challenge 2016 Sponsored by Ho Math and Chess-Easton

◆ **The Contest Components are:**

- For each level, each contestant will be given a set of 30 multiple-choice questions to answer them. The maximum time allocated to answer the 30 questions is 60 minutes.
- Scores: Each question carries 2 points each.

Contest Rules:

- ◆ Parents or legal guardians are not allowed in the competition room.
- ◆ Special accommodations must be requested at the time of Registration. All requests will be respected.
- ◆ Students are requested to get their pencils, pens and erasers.
- ◆ Students may use mathematical tools, as: rulers, protractors, mathematical shapes templates, and calculators.
- ◆ No iPhones, smart phones, computers of any type, or any electronic device that allows access to the Internet or provides photo-taking capacity are allowed in the competition room.
- ◆ No books or notes are allowed in the competition room.
- ◆ The primary goal of this Math challenge is to foster the spirit of competition and learning among the youth. Parents and children should focus on the joy of learning and interaction with other participants rather than on the possible outcome of the Math Challenge.
- ◆ All participants should be present at the Venue 15 minutes prior to the test.

Event Date: Apr 16th, 2016

Event Time: 12:00 Noon

**Venue: Burlington High School,
123 Cambridge Street, Burlington, MA - 01803**

Resources/ references that will be used:

Math Bee Level 1 (Grades 1, 2): Online Resources

TAGB Math Challenge 2016 Sponsored by Ho Math and Chess-Easton

- Critical Thinking Skills - Teaching your kid how to think rather than what to think www.criticalthinking.com.
- Khan Academy - Free Video Lectures
- Arithmetic - www.khanacademy.org/#arithmetic
- Developmental Math 2 - www.khanacademy.org/#developmental-math-2
- Math Kangaroo for grades 2 and above www.mathkangaroo.org

Math Bee Level 1 (Grades 1, 2): Books (Workbooks - each book has hundreds of word problems)

- Primary Math Work Books US Edition: 1A, 1B, 2A, 2B
- Primary Math Intensive Practice U.S. Edition: 1A, 1B, 2A, 2B

Math Bee Level 2 (Grades 3, 4, 5): Online Resources

- Khan Academy - Free Video Lectures
- Arithmetic - www.khanacademy.org/#arithmetic
- Developmental Math 2 - www.khanacademy.org/#developmental-math-2
- 5Singapore Math - www.khanacademy.org/#statistics (Move up for Singapore Math)
- Pre-Algebra - www.khanacademy.org/#pre-algebra
- Worked Examples - www.khanacademy.org/#ma-tests-for-education-licensure-mtel-pre-alg
- Math League for grades 4 and above www.themathleague.com
- Math Olympiad: www.moems.org

Math Bee Level 2 (Grades 3, 4): Books (Workbooks - each book has hundreds of word problems)

- Primary Math Work Books US Edition: 3A, 3B, 4A, 4B, 5A, 5B
- Primary Math Intensive Practice U.S. Edition: 3A, 3B, 4A, 4B, 5A, 5B
- Challenging Word Problems for Primary Mathematics: 3, 4, 5

Math Bee Level 3 (Grades 5, 6): Online Resources

- Practice problems from middle school students: (Past AMC8 tests and solutions); CD -- AJHSME & AMC 8 (1985-2007); <http://amc.maa.org/d-publication/publication.shtml>

TAGB Math Challenge 2016 Sponsored by Ho Math and Chess-Easton

- Book for high school students: the Art of Problem Solving, Volume 2: and Beyond, By Richard Rusczyk and Sandor Lehoczky
- Khan Academy - Free Video Lectures
- Algebra - www.khanacademy.org/#algebra
- Geometry - www.khanacademy.org/#geometry
- Worked Examples 1- www.khanacademy.org/#california-standards-test-geometry

Math Bee Level 4 (Grades 7, 8): Online Resources

- Book for high school students: the Art of Problem Solving, Volume 2: and Beyond, By Richard Rusczyk and Sandor Lehoczky
- Algebra - www.khanacademy.org/#algebra
- Worked Examples 2 - www.khanacademy.org/#ck12org-algebra-1-examples
- Worked Examples 3 - www.khanacademy.org/#california-standards-test-algebra-ii
- Geometry - www.khanacademy.org/#geometry
- Trigonometry - www.khanacademy.org/#trigonometry
- Probability - www.khanacademy.org/#probability
- Statistics - www.khanacademy.org/#statistics
- Precalculus - www.khanacademy.org/#precalculus
- MATHCOUNTS - Free: www.mathcounts.org
- Math Olympiad: www.moems.org
- SAT and SAT II - www.collegeboard.com

Submitted by:

Pratima Penumarthy,

Director of Ho Math and Chess- Easton

<http://www.homathandchess-easton-ma.com>

