

# **Face Off 2007!**

## **The Mathematics Game Show**

**What is it?** *Face Off is a mathematics quiz show with questions from the broad realm of mathematics. And we mean broad! Teams of **four** students representing their middle schools compete to answer these questions. **One** team per school. The competition is opened to 16 teams from 16 different middle schools in Wisconsin. Duration of the game is 45 minutes. Eight teams will compete in the first 45 minutes followed by the remaining 8 teams for another 45 minutes. Each team will be assigned a sign with a face of a well known mathematician (For example, your team could compete as Descartes, Gauss, Newton, Einstein or Ramanujan).*

*A team holds up its sign to answer a question and earns or loses points depending on whether its answer is correct or not. The judge's decision is final. Teams can use a standard graphing calculator, paper, and pencil. For more information, visit the Face Off website given below.*

**Where is it?** Mitby Theater, Madison Area Technical College, 3550 Anderson Street, Madison.

**When is it?** Tuesday, October 23, 10:30 AM

**Sample Questions:** *Past categories have included "Bad Math Puns", "Name that Fractal", and "You Ought to Know". The "Big Ideas" category contained the following questions:*

**20 pts.** *How many zeroes are there in a googol?*

**40 pts.** *How many distinct 11-letter "words" (nonsense words included) can be made using each of the 11 letters in MISSISSIPPI exactly once?*

**60 pts.** *How many zeros are there at the end of 100!?*

**80 pts.** *What is the remainder when  $2^{134452457}$  is divided by 11?*

**Any middle school student is eligible to be a member of the Face Off team representing their school. Space will be limited, so form a team soon, including "home schoolers". The first 16 teams registered will compete in Face Off 2007! Please contact J. Sriskandarajah to register.**

### **Face Off Organizers:**

Dr. Ken Price, [pricek@uwosh.edu](mailto:pricek@uwosh.edu), (920)-424-1057

Dr. Steve Szydlik, [szydliks@uwosh.edu](mailto:szydliks@uwosh.edu), (920)-424-7346

Program Coordinator: J. Sriskandarajah [jsriskandara@matcmadison.edu](mailto:jsriskandara@matcmadison.edu), (608)-243-4313  
<http://www.uwosh.edu/departments/mathematics/mathclub/faceoff.htm> (College Version)  
<http://matcmadison.edu/studentlife/clubs/mathclub>