Mathematical Puzzle Programs

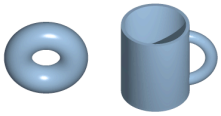
Getting on Top of Things

Example Puzzle

A friend passes you a note with the following strange image.

	1	2	3	4	5
1	A				
2		O			
3			N		
4				T	
5					Y

43 11 44 51 52 25 11 35 13 25 22 43 13



She's recently been interested in **topology**, the study of structures that can be morphed from one to another without cutting or tearing, such as the donut and coffee cup shown in the image. *Can you decode the number pairs by finding five groups of topologically-equivalent letters? Try writing each group in alphabetical order on the corresponding rows of the grid...*

Mathematical Puzzle Programs

About MaPP

The mission of Mathematical Puzzle Programs (MaPP) is to organize quality events which get students having fun by learning and using mathematics.

- **Math**
  Our mathematical content is pulled from various areas unrepresented in the usual secondary curriculum, such as design theory, game theory, or topology.
- **Puzzles**
  We shredded the multiple choice tests, and instead designed several mathematical puzzles which will give your students a taste of real mathematical problem solving, and prepare them for the types of questions asked in many job interviews.
- **Team-Building**
  MaPP features a team-based competitions, emphasizing collaboration and communication over individual work, as teamwork is crucial for success in both industry and academia.
- **FUN!**
  Many of the challenges can't be solved sitting down - players will find themselves running around their host campus to track down clues and uncover new puzzles to solve.

Programs

- **High School Challenge**
  A game for 9th-12th grade students which showcases the fun of mathematics as well as featuring the host campus with a customizable opening puzzle.
- **Middle School Challenge**
  A game for 6th-8th grade students perfect for inspring younger audiences to engage in mathematics.

How to Get Involved

- Become a MaPP partner campus!
- Contribute a puzzle!
- Spread the word!
- Visit or volunteer at a competition near you!
- Download our free puzzle materials!

Contact

- Web: MaPPmath.org
- Twitter: @MaPPmath
- Email: director@mappmath.org
- Email: communications@mappmath.org