Edward Wan Crowned National Champion at 2016 Raytheon MATHCOUNTS National Competition

To say that Edward Wan won the MATHCOUNTS Competition Series in some ways feels like an understatement. He won as a seventh grader, making him one of only a handful of national champions not in eighth grade—and the first since 2008. He was the Written Competition Champion in addition to the National Champion, making him only the third Mathlete® in the past 10 years to win both competitions.

Even rarer still, Edward scored a 46—a perfect score—on the Written Competition. Any Mathlete or teacher who has participated or coached in MATHCOUNTS understands how exceptional this is. The complexity and difficulty of MATHCOUNTS problems is taken as such a given that the Official Rules and Procedures of the Competition Series include this explanation:

MATHCOUNTS Competition Series scores do not conform to traditional grading scales. Coaches and students should view an Individual Score of 23 (out of a possible 46) as highly commendable.

Given this list of rare achievements, many would assume Edward is simply a prodigy, someone whose talent in mathematics is purely natural. But what makes Edward even more exceptional is this: he did not qualify for the MATHCOUNTS National Competition last year. A Mathlete, who less than a month ago received a perfect score on arguably one of the most challenging MATHCOUNTS tests ever written, was defeated at the Washington State Competition last year. In fact, when interviewed for a blog post by Microsoft, Edward summed up his achievement this year, compared to last year, with a simple adage: “Practice makes perfect.”

That Edward practiced and worked very hard for his achievement is a point that is probably not highlighted.
enough in science, technology, engineering and mathematics (STEM) programs. Many people continue to view talent in STEM as something that we are born with, or born without. But the truth is, brilliant students like Edward cultivate their brilliance through effort, persistence and yes, failure. But when these students inevitably make a mistake—whether at the nation’s most prestigious math competition or on a routine test at school—they rethink their strategies, learn from their errors and keep trying. Practice makes perfect. It is also what makes a national champion.

Edward Wan received a total of $22,500 in scholarships, including the $20,000 Donald G. Weinert College Scholarship, and a trip to U.S. Space Camp. A student at Lakeside Middle School in Seattle, Wan is the third Mathlete from Washington to be National Champion. He answered the winning question in just 6.95 seconds:

What is the remainder when 999,999,999 is divided by 32? (Answer: 31)

Wan was joined by 223 students from across the nation who competed at the 2016 Raytheon MATHCOUNTS National Competition on May 8–9 at the Renaissance Washington, D.C. Downtown Hotel. National competitors represented all 50 states, the District of Columbia, Puerto Rico, Guam, the Virgin Islands, the Department of Defense and State Department.

One of the nation’s most challenging math competitions, the 2016 National Competition began with a series of written exams on Sunday, May 8, requiring students to work both individually and collaboratively as part of their four-person state teams. On Monday, May 9, the 12 Mathletes with the highest scores on the Written Competition advanced to the Countdown Round, a fast-paced contest with one-on-one match-ups. Countdown Round participants must solve a series of difficult math problems, each in 45 seconds or less.

Rankings for the Countdown Round were determined by the students’ scores on the previous day’s Written Competition. The four individuals with the highest written scores—who received a bye in the first round of the Countdown Round—were Wan; Luke Robitaille, a sixth grader from Euless, Texas; Jason Liu, an eighth grader from Reno, Nev.; and Benjamin Wright, an eighth grader from Sugar Land, Texas.

The two semifinalists were Liu and Ben Kang, an eighth grader from Falls Church, Va. The Countdown Round Runner-Up was Robitaille, who was also the Written Competition Runner-Up. Having two of the youngest Mathletes at the event in the final match-up was not lost on Countdown Round moderator Lou DiGioia: “Pretty remarkable! We have a seventh grader versus a sixth grader, so you know...no matter who wins this year, you’ll just come back next year and try it again, all right?” It is safe to say that the 2017 Competition Series, and maybe even the 2017 Raytheon MATHCOUNTS National Competition, will have some familiar faces.

After winning the title of 2016 National Champion, Wan went on a media tour that included an appearance on Live! with Kelly and Michael, where he competed against hosts Kelly Ripa and Michael Strahan in a live math competition. The 2016 National Competition was featured on WUSA9-TV’s Great Day Washington segment, and was also covered by multiple news outlets, including Education Week, The Seattle Times, Deadspin and Microsoft On the Issues.
Texas Wins Team Competition, Makes Countdown Round History

The team from Texas, under the leadership of Coach Isil Nal, took First Place in the Team Competition, and made MATHCOUNTS history with two new records! All four Texas team members were in the top 12 and participated in the Countdown Round—a first at the MATHCOUNTS National Competition. Texas was also the first team to have two sixth-grade students qualify for the Countdown Round.

Team members Andrew Cai, a sixth-grade student from Sugar Land; Robitaille; Wright; and Justin Yu, an eighth-grade student from Richardson, stood out at the National Competition not only for their talent, but also for their team spirit and camaraderie. Despite competing against each other onstage during the Countdown Round, all four Mathletes were cheering for each other and their fellow competitors.

Each member of the Texas Team won a $2,000 scholarship and a trip to U.S. Space Camp. The team from California won Second Place, with team members Nevin Liang, from Saratoga; Wentinn Liao, from Tracy; Brent Liu, from Fremont; and Ishika Shah, from Cupertino (all eighth graders). The Washington Team won Third Place, with team members eighth grader George Lan; eighth grader Axel Li; Wan; and seventh grader Alex Wei (all from Bellevue).

Celebrating Spirit at the National Competition

Spirit and sportsmanship were abundant at this year’s National Competition. From students trading pins, to Countdown Round participants high-fiving and applauding each other—even after losing a match-up—the 2016 Mathletes exemplified the spirit of teamwork and community.
The Puerto Rico team won the 2016 Spirit Award, which is awarded to the team that best-demonstrates a positive attitude and support for fellow Mathletes. Team members Carlos Alvarado, Javier Mulero, Nico Prokauer Valerio and Osval Quiñones, and Coach Nestor Santiago each received a commemorative pin in recognition of their award.

MATHCOUNTS congratulates all 224 national competitors for advancing to the national level. This is a remarkable accomplishment and every Mathlete who participated at the event in Washington, D.C. should be incredibly proud of his or her success. The MATHCOUNTS National Competition results, as well as links to event photographs and the archived webcast on ESPN3 is available at www.mathcounts.org/nationalcompetition.
“#MarbleChallenge” by Team GLU3 from Georgia Voted First Place Video at 2016 Math Video Challenge Finals

GLU3 from Georgia won the 2016 Math Video Challenge with their video, “#MarbleChallenge.” Filmmakers Aaliyah Brown of Jonesboro, Jadon Edwards of Powder Springs, MacKenzy Jordan of Covington and Kennedy Spencer of Way Fairburn (all eighth graders), each received a $1,000 college scholarship. Team Advisor Camille Jones of the Ron Clark Academy in Atlanta, has led three teams now to a First Place win in the program.

“#MarbleChallenge” is a story of two students, Jadon and Kennedy (playing themselves), who decide to try out a new game called the #MarbleChallenge, after seeing a GLUTube video starring Internet sensations KittenGal24 (MacKenzy) and GalaxyGalore (Aaliyah). The students drew their inspiration for “#MarbleChallenge” from the Broadway musical Hamilton and made their entire video a musical, using imaginative lyrics, jokes and rhymes to craft their story. One refrain in the video, for example, features KittenGal24 setting up the winning game strategy for Jadon:

What's up—it's me KittenGal24!
With my help, we'll beat GalaxyGalore.
First, what relation do 1, 4 and 2, 3 have?
The sum is both 5? Yes, you’re on the right path!
Five is the magic number to control the game.
Do you now understand? No, not really, please explain.
One is the lowest number that you can choose.
Four is the highest. Now I've got a clue!
One and four put together sums 5.
Two and three do the same—don’t deny it.

The video solved problem #78 from the 2015-2016 MATHCOUNTS School Handbook:
Jadon and Kennedy are playing a game with a bowl containing 39 marbles. Each player takes turns removing 1, 2, 3 or 4 marbles from the bowl. The person who removes the last marble loses. If Jadon takes the first turn to start the game, how many marbles should he remove to guarantee he is the winner?

“#MarbleChallenge” was one of four finalist videos presented at the 2016 Math Video Challenge Finals, which took place on Monday, May 9 at the Renaissance Washington, D.C. Downtown Hotel. Finalists presented their videos to the 224 Competition Series national competitors at the event, who then voted to determine the winning video.
**MATHCOUNTS, University of Oklahoma, Art of Problem Solving**

**Offer Competition Math Online Course for the Summer**

The online course, Competition Math for Middle School, is back by popular demand and will be offered from June 6 through August 12, 2016. The course, led by Professor Stacey Reeder of the University of Oklahoma, features content developed by Art of Problem Solving, plus tips and strategies from national-level MATHCOUNTS coaches.

More than 200 MATHCOUNTS coaches and math teachers took the course that was offered in Fall 2015. Offering the course during the summer—before classroom teaching, coaching and team practices begin—will allow even more educators to participate. The course is designed to be a resource for both new and returning coaches so they can get their MATHCOUNTS students ready for the 2016-2017 Competition Series.

More information is available at mathcounts.ou.edu. All participants who successfully complete the course this summer will receive one graduate credit from the University of Oklahoma, which can be used in most school districts for continuing education credit. Educators interested in taking this course should register online by June 6, 2016.

**Jacob Wachspress Wins 2016 MATHCOUNTS Alumni Scholarship**

MATHCOUNTS created the Alumni Scholarship three years ago as a way to support students beyond middle school. This year’s winner of the $3,000 Alumni Scholarship was Jacob Wachspress of Yardley, Pennsylvania. Wachspress, a State Competitor from 2008-2011, was a finalist for the scholarship in 2015 and will attend Princeton University in the fall.

After his success as a middle school Mathlete, Wachspress went on to lead his high school’s ARML team and volunteer at Boys and Girls Club of Trenton. After graduating from high school, he decided he wanted to do more to give back before starting college, so he joined Princeton’s Bridge Year Program.

Through the Bridge Year Program, Wachspress has spent the past year working as a math teacher for elementary, middle and high school students in Bolivia. He described the experience as transformative for him, writing, “What I can say for sure...is that I am not done sharing that rush of bliss that MATHCOUNTS brought to me. The ‘how’ may not yet be clear...but I know that the arc of my life will inevitably put me in positions to spread the incredible joy math can bring.”

The application for the 2017 MATHCOUNTS Alumni Scholarship will be available in the fall. More information is available at www.mathcounts.org/scholarship.
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We would like to express our gratitude to the generous donors at the state and local level whose support impacted thousands of students attending chapter and state competitions this year. They helped make the MATHCOUNTS Competitions Series a huge success!

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From left: Math Video Challenge Finalists Jayla VanHorn, Anaya Spencer (at back) and Shadarria Robinson from the Mathtastic 4 Team dress up as characters from their video.
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