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There are 10 types of people in the world: those who understand binary and those who don't.

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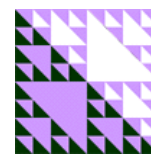
The Class of 84^2-71^2 (and also 48^2-17^2— go math!)

It's been over a year since last year's class graduated (as it would be), so here's the update from everyone!

Vanessa Argento ('15) is in the graduate Inclusive Childhood Education program at Nazareth.

Hao Ding ('15.5) finished in December 2015, and will be starting graduate school in mathematics at SUNY Binghamton in the fall.

Jennie McFarland ('15) is living in the Buffalo area. She is probably not the person who bought the Archimedes Palimpsest, but we can't be sure.

Jessie Nicolay ('15, Econ major, math minor) spent some time in southern California and is now back in Rochester, we assume for the weather.

Erica Pettrone ('15) is in the Teaching Fellows program at Nazareth.

Euphemia Haynes

Euphemia Lofton Haynes (Sept. 11, 1890—July 25, 1980) was the first African-American woman to earn a Ph.D. in mathematics. She earned her Bachelor's degree in math from Smith College, then her Master's degree in education from the University of Chicago in 1930. She then went to work at Miner Teachers College (now the University of the District of Columbia), where she founded the math department and remained its head for almost 30 years. In 1943, Dr. Haynes earned her Ph.D. in math from the Catholic University of America. After earning her doctorate, she spent the rest of her life as an educator in the D.C. area, advocating for better education for African-American students and poor students, as well as campaigning against segregation. In 1959, Dr. Haynes was awarded the Pro Ecclesia et Pontifice medal, the highest award given to laity by the Pope. After retiring from teaching, she became the president of the D.C. Board of Education in 1966, where she continued to fight racial segregation.

Andy Lund ('15): Last May I moved to Madison, WI after accepting a job as a Project Manager at Epic Systems. Epic Systems is a healthcare software company that makes software for large health networks. The two customers that I work with are the University of Rochester and Salem Regional Health in Salem, Oregon. It was quite a steep learning curve early on getting acclimated to the large and complex industry of healthcare in the US, and I'm still learning new things every day. The application that I work on deals primarily with patient movement within the hospital, bed planning, and census management. By far the most applicable skill that I've transferred from my time as a Math major at Nazareth to this job is being comfortable when I don't know the answer to a problem. Turns out it doesn't matter if you're unsure about one of Daniel's abstract algebra questions or unsure about how a managed care health program works. Being able to break a problem down into smaller, individual pieces that you understand applies across all areas, and it's something that I do every day. Finally, the dress code at Epic is a huge plus, which means that I haven't been forced to upgrade my wardrobe just yet.

The Midwest isn't that much different from Upstate NY, which made the transition to a new city with a new job fairly seamless. Madison has tons to offer in terms of food and drink selection (okay, maybe it's just beer and cheese, but that doesn't make it any less tasty). I've become an honorary Badgers and Packers fan, and regularly attend the Saturday farmers market at the capitol building. Here is a picture of me and Carolyn at the Union Terrace last June, Madison's go-to place during the summer for drinks, music, and a lake-front view.

Melissa Reeves ('15) I am doing great... currently teaching high school Math in North Rose-Wolcott. I teach four sections of Algebra 1 and one section of Statistics, which is an elective for seniors. I have been a part of various grants and initiatives in my district. I helped coach our girls' basketball teams this past season. I also am taking graduate classes at Naz still to get my Master's in Inclusive Ed (7-12), even though I already have my certification in this area. I have a graduate assistantship at Naz with the Athletic Department... so needless to say I'm extremely busy.

Quintin Smith('14.5) has been traveling around Europe this summer and has now returned to New York to start a job as a teacher.

Career Night with 3² Alumni

Left to right: **Don Young ('00)** teaches math at Fairport HS; **Lacey (Kianka) English ('02)** works at the DAC Group; **Allison Shuler ('09)** is a consultant at Cobblestone Capital; **Kristen (McIntyre) Falk ('09)** is Assistant Vice President and Operations Development Manager at Fairport Savings Bank; **Cooper Murphy ('09)** is an analyst; **Eileen Bruns ('13)** is a teacher at Bernice M. Wright Child Development Laboratory School; **Caitlin (VerSchnedier) Colburn ('13)** is a math teacher at Siena Academy; **Mary Losito ('14)** is a math teacher at OCM BOCES; **Jeff McCormick ('00)** is Vice President of Product Management at IP.com.

$5^2 - 1^2$ Members of the Dance Team

The $1^2 + 2^2 + 3^{2,}$ current members of the Dance Team also placed $1^2 + 1^2 + 1^2$ nationally. You can see a video about the team below.

http://nazathletics.com/sports/2016/5/11/dance-team-video.aspx

On Sunday, April 24, the Nazareth College Dance Team hosted their 8th Annual Showcase. In lieu of an admissions cost, the team asks for donations for a charity or cause of their choice. This year, the team decided to raise money for the Michael E. Hedges Memorial Scholarship Fund. Michael was a friend of sophomore Megan Searing, a member of the Nazareth Dance Team. Hedges was tragically killed this past fall when he was hit by a drunk driver while walking near the Skidmore College campus where he was a Freshman. The Dance Team was able to raise $909.

After learning the amount raised, Megan was elated with the amount of support she received from her team and the Nazareth community. Said Searing, "Thank you so much, you don't know how much this means to me."
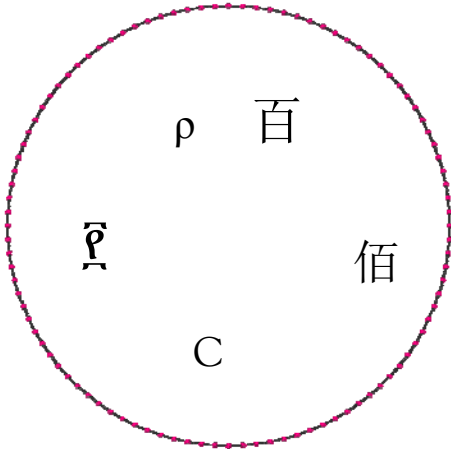
During the event, the Dance Team performed a number of new routines that ranged in style. The show also allowed Dance Team Alumni to perform. (This photo above has three math majors: **Emily Griffith ('16)**, **Megan Searing ('18)**, and **Jaclyn Wesley ('12)**.)

The Joint Mathematics Meetings with 1 student, 2 alumnae, and $1^2 + 2^2$ faculty

Every January a bunch of the math organizations get together and hold a giant conference: this year the meeting was in Seattle, and not only did 5 of the Naz faculty go, but so did 1^2 alumna who just got her PhD (Dr. **Jolie Roat, '09**), 1^3 alumna finishing her PhD, (now-Dr. **Caitlin Parmelee, '10**), and 1^4 current student (eventual-Dr. **Kelsey Quigley ,'16**). We all got together over lunch, marking the second year that we've had such a mini-

reunion at the Joint Mathematics Meetings. **Cheri**, **Nicole**, **Matt**, **Yousuf**, and **Heather** gave a talk together about the inquiry-based learning we've been doing in our calculus classes. Other highlights were Heather having some knitting in the art show (traditional Norwegian designs demonstrating all 7 frieze patterns) and receiving a service award from the Association of Women in Mathematics, and Matt getting to meet Cliff Stoll, the creator of Acme Klein Bottle.

This issue brought to you by the number 10^2 because we love squares. And the number 2.

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$\pi^2/6 = 1^2 + (1/2)^2 + (1/3)^2 + (1/4)^2 + \ldots$

For the first time in many years, the Math Club's annual Pi Day celebration took place on Pi Day! (It usually falls during Spring Break.) Our winners were:

Creativity: Carey Backman and Rustin McNiff
Taste: Jennie Betts and Jen Iler
Presentation: Sara Edell

Every ingredient in this pie was inspired by a UA activity.

This pie brought to you by Jen^2.

This pie had peanut butter. Yum!

Problems

Solutions to Problems 10.0:

**10.0.1:** 10
10.0.2: 10
10.0.3: 10

Problem 10.2.1: If Persephone can paint a house in 15 hours and Ophelia can paint a house in 30 hours, how long will it take them to paint a house if they work together?

Problem 10.2.2: If you invest \$100 in an account that earns 7.18% interest compounded annually, how many years will it take to double your investment?

Problem 10.2.3: For any base $b > 1$, how would you write $b+1$ in base b?

Send solutions, articles, squares, pentagons, heptadecagons, alumni news, trisections, trilobites, or suggestions to Heather (hlewis5@naz.edu) or Matt (mkoetz1@naz.edu).
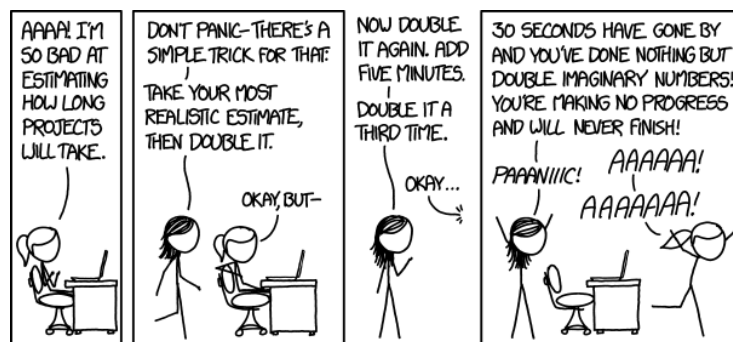
Doing math problems— more fun than doubling imaginary numbers!

http://xkcd.com/1658/