



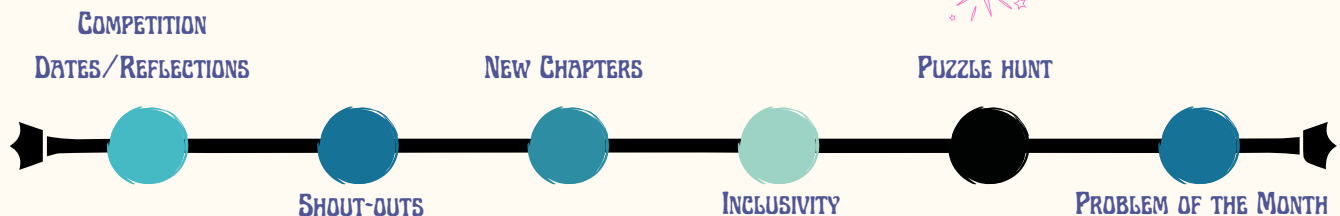
INTEGIRLS



HEY, HOW ARE YOU?
EVENTS, SHOUT-OUTS, NEW
CHAPTERS, PUZZLE HUNTS, AND
MORE. 🐉

DEAR INTEGIRLS COMMUNITY.

These past two months have been a transformative time for the entire INTEGIRLS community. In this brief period of time, we have opened a plethora of new opportunities and chapters, along with hosted multiple competitions. For this newsletter, our executive team hopes to properly commemorate each chapter's achievement, as well as those led by the main body. We have updates regarding competition dates/reflections, shout-outs, new chapters, our inclusivity policies, the infamous puzzle hunt, and a new Problem of the Month series. Instead of throwing a bunch of words at you in the introduction, let's move on to the important stuff. ✨



COMPETITION

DATES/REFLECTIONS

BELOW ARE ALL THE COMPETITIONS DATES (LINKED TO CHAPTER SITES):

Astana: Nov. 5

Bay Area: Oct. 15 (online)

Boston/Concord: Oct. 21 (in-person)

Burabay: Dec. 9

Dallas/Fort Worth: Nov. 18

Houston: Nov. 18 (online)

Indianapolis: Oct. 29 (in-person and online)

Los Angeles/Orange County: Nov. 18 (online)

Miami: Nov. 5 (online)

New Haven: Oct. 28 (online)

San Diego: Nov. 18 (online)

Singapore: Sept. 23 (in-person)

St. Louis/Missouri: Nov. 18 (online)

Tampa/Sarasota: Nov. 26 (online)

Toronto: Nov. 18 (online)



Houston competition flyer.

~HOUSTON ASKED TO BE MENTIONED IN THIS NEWSLETTER~

FOR MIDDLE AND HIGH SCHOOL GIRLS AND NON-BINARY INDIVIDUALS AFFECTED BY (TRANS)MISOGYNY

INTEGIRLS Houston is hosting its 2023 Fall Contest on November 18th, 2023! Middle and high school girls of all math levels are encouraged to compete for cash prizes, t-shirts, and more swag. The contest will be held over Zoom, and consists of an individual round, a team round, and two relay rounds. There will be two separate categories for middle schoolers and high schoolers. A team is not required to sign up! More details, as well as past winners and statistics, can be found on our website, <https://houston.integirls.org/2023-fall-math-contest>. The sign-up deadline is November 11th. Use the QR code on the flyer to sign up, or this link: <https://forms.gle/cnsRorSLW9AtP3Sr8>. Please spread the word to anyone who might be interested!

SHOUT-OUTS

WE ASKED CHAPTER MEMBERS TO SHOUT-OUT PEOPLE THEY THINK HAVE DONE EXCEPTIONALLY WELL THESE PAST TWO MONTHS. HERE'S WHAT THEY SAID:

ZAAE SHAH & SANYA BADHE

CHAPTER: BAY AREA

**ROLES: OPERATIONS DIRECTOR & VICE PRESIDENT
(RESPECTIVELY)**

COMMEMORATED BY: ANONYMOUS

"Zaae and Sanya have been amazing officers for the Bay Area team! Beyond their primary roles & responsibilities, they have gone above and beyond by dedicating extra effort to write problems for INTEGIRLS Bay Area's Problem of the Week! Thanks to them, our Problem of the Week has been a success, drawing many weekly participants with high-quality problems. In addition, they always bring positive energy and enthusiasm to every meeting and event. The Bay Area team is truly grateful for their contributions and the dedication they bring to the INTEGIRLS team!"

"She advertised this organization very well to me and is the reason I joined. Nat has been nothing but kind and patient with me as I learn about how to navigate my position. She is welcoming and very cheerful whenever we have meetings and is a leader who knows how to get things done in an organized manner. I am thankful to have found this club with such an amazing group of people and am so thankful for Nat!!"

AUDREY HWANG

CHAPTER: TAMPA/SARASOTA

ROLE: CHAPTER EXECUTIVE

COMMEMORATED BY: EMILY FUNG

"I am writing on behalf of Audrey Hwang, a current Chapter Executive in our Sarasota/Tampa Integirls chapter. As I have observed Audrey, I have noticed that she demonstrates confidence and initiative in undertaking tasks in our chapter. She has outreached and secured several sponsorships for our fall competition despite being new this year. This is Audrey's first year in Integirls and she is always ready to lend a hand. With that being said, Audrey is fully engaged with our chapter and an irreplaceable member of our team."

NATALIE CLAYBAUGH

CHAPTER: TAMPA/SARASOTA

ROLE: CHAPTER HEAD

COMMEMORATED BY: ANONYMOUS

Special Thanks: "Thank you for your initiative and hard work!"

"Emily does an exceptional job as the President, and would be a great contribution to the newsletter. She always on top of things and is very inspiring."

Special Thanks: "Thank you for being a great president!"

EMILY FUNG

CHAPTER: TAMPA/SARASOTA

ROLE: CHAPTER HEAD

COMMEMORATED BY: CHRISTINE WU

NEW CHAPTERS

THESE PAST TWO MONTHS, WE HAVE INTRODUCED FOUR NEW CHAPTERS: ATLANTA, NORTH CAROLINA, MONTREAL, AND SOFIA, BULGARIA. WE HAVE AROUND 180 MEMBERS IN TOTAL.



ATLANTA



NORTH CAROLINA

MONTREAL



SOFIA, BULGARIA

INCLUSIVITY

AT INTEGIRLS, OUR MAIN GOAL IS TO PROPEL THE INVOLVEMENT OF GENDER MINORITIES IN STEM. HERE'S A MESSAGE WE SENT OUT TO ALL CHAPTERS RECENTLY TO MAKE SURE THIS GOAL IS BEING MET:

"Some of you may already know this, but previously INTEGIRLS used to be called inteGIRLS. We routinely employed the phrase "female and non-binary" to describe our participants, but it came to our attention a few years ago that these terminologies were incredibly counterproductive, especially in our efforts to minimize the STEM gap for minoritized genders. Actually, this happened quite explosively through a TikTok that went viral in 2020/2021; the user went through various chapter sites and pointed out the incongruous terminology used, consisting of but not limited to "*an organization by girls for girls*," saying "females" sometimes but "*girls and non-binary individuals*" other times, or simply not leaving any space in word usage for gender-nonconforming individuals. Although this video has since been taken down, previous INTEGIRLS executives developed a new inclusion policy alongside writer, activist, and gender/queer studies expert Kesiena Boom, which is now posted on the main INTEGIRLS site.

This resulted first with the change of the organization name. inteGIRLS put an emphasis on girls, and "female and non-binary" defeated the purpose of trying to use inclusive language in the first place. Female is a starkly-gendered term, and by grouping girls and non-binary individual together, the phrase assumes that all non-binary individuals are comfortable grouping themselves with women. Instead, we now either say "girls and non binary students comfortable being grouped with girls" or "girls and non-binary students affected by (trans)misogyny." These terms deflect any strict boundaries and highlight the potentially shared experience of (trans)misogyny — an intersectional term referencing either the transphobia and misogyny experienced by trans women and transfeminine people or misogyny — among girls and non-binary students, **creating a more defined, educated version of our original guidelines.**

Okay, so, what do you need to do? We have noticed that some chapter sites and social medias are still employing non-inclusive language, and we urge everyone to check to make sure that appropriate terminology is being used. If not, please change it or contact an exec with the ability to change it. Please message me or refer to the inclusion statement on the main INTEGIRLS site for any more information — I would be more than happy to help.

Additionally, you should make an educated choice regarding who you allow to participate in your competitions. You can either invite *girls and non binary students comfortable being grouped with girls* or *all genders*. The latter might seem counterintuitive, but to some it may seem contradictory to restrict who can participate in a math competition.

An emphasis should be placed on targeting minoritized genders regardless of the policy your chapter plans to adopt. If you have any questions about any of this, again, let me know.

Also, I was contemplating **bringing in a professional who is more knowledgeable about gender issues or holding a sort of public forum to discuss openly any questions you may have.** Message me or talk together in the general channel if this is an option you want. You should talk to your chapter executives regardless, and let me know if I should help arrange a speaker to meet with your chapter. Overall, we should all make sure that our inclusion policy is being upheld."

PUZZLE HUNT

PUZZLE HUNT IS RESTARTING!

Previously, INTEGIRLS held puzzle hunts, or contest where teams work together to solve challenging puzzles, with over 1,500 participants from 50 countries. We are planning to start again, already recruiting two new people to both our tech and puzzle writing team. Currently, with the help of previous puzzle team members, the puzzle writing team is working on building a new puzzle hunt interface. More updates are soon to come!

PROBLEM OF THE MONTH

Hello from the INTEGIRLS Problem Writing Team! You may not have met us before; we don't usually work directly with competitors, unlike the chapter teams. Our work is more behind-the-scenes: writing tests, making sure there aren't mistakes, and clearing up any issues or appeals as they come in on contest day!

As our contribution to the INTEGIRLS monthly newsletter, we'll be running a Problem of the Month series. This section will have — obviously — problems that you all can solve, and if you submit your answers to pw@integirls.org, you can even win prizes!

The Problem of the Month section includes six questions each month: two questions worth 1 point each, two questions worth 2 points each, and two questions worth 3 points each. These questions have been handwritten by members of our problem writing team, so you won't be able to find them online, and we ask that you don't look! The goal of the PotM series is for you all to stay connected to math while still having fun, so there's no point in searching up the answers. Do them on your own, without a calculator or any other electronic/paper aids.

Correct answers win points, and these points can be accumulated over multiple PotMs, so even if you don't win enough points for a prize this month, you don't have to restart next month. More about prizes and how to enter at the end of the problem set!

PROBLEMS WORTH ONE POINT:

Katie chooses 2 consecutive odd integers. The larger of the two is three times the smaller. What is their product?

Problem by Celina Zhou.

There exist two integers x and y such that y is equal to one more than thrice x , and y is also equal to one more than six times x . What are the two integers? Express your answer as an ordered pair (x, y) .

Problem by Carolyn Cao.

PROBLEMS WORTH TWO POINTS:

Ted is throwing a dart at a circular dartboard with a 10-inch diameter. Within this dartboard, there are circles of radius 2, 4, 6, and 8 inches. The dartboard is colored black and red such that there are bands of alternating colors corresponding to these circles, and the center of the board is red (i.e. the area inside the two-inch circle is black, the area outside the two-inch circle but inside the four-inch circle is red, etc.). If Ted's dart lands at a random position within the dartboard, the probability that his dart hits a red section of the board is $k\%$. Find k .

Problem by Scarlet Gitelson.

Rohan High School offers 2 elective sports; basketball and tennis. 424 students play tennis, 396 students play basketball, and 16 students play both sports. There are 1027 students attending Rohan High School this year. How many students are not in any sports?

Problem by Janice Lee.

PROBLEMS WORTH THREE POINTS:

How many 4 digit numbers have a remainder of 3 when divided by 8, 6 when divided by 11, and 8 when divided by 13?

Problem by Tina Gao.

The INTEGIRLS Problem Writing Team creates a bank of problems from which they choose questions to put on the INTEGIRLS tests. This year, their bank has 2023 problems, and it spans 43 pages! Of course, they number their problems and pages in correct numerical order starting from 1. In total, how many times is the digit 0 printed in all of the page numbers and problem numbers in the INTEGIRLS Problem Bank?

Problem by Harini Venkatesh.

PRIZES AND HOW TO ENTER:

To keep the suspense, we won't be announcing how many questions you should solve to win a prize, so just do as many as you can! This will be announced in the next issue of the INTEGIRLS newsletter, along with a list of the winners. **You can submit your answers via tinyurl.com/integirlspotm until Sunday, November 26th at 11:59 PM ET (Eastern U.S. Time).** Note that you can edit your submission after you send it, which means you get to keep working through the entire month!

We hope you enjoyed this month's newsletter. As always, feel free to DM @inte.girls on Instagram or email info@integirls.org if you would like to suggest any ideas for this newsletter. Nonetheless, we are sure to showcase even more exciting information this coming month.

Best,

THE INTEGIRLS EXECUTIVE TEAM 