

Solving the Unexpected

2019-2020 Annual Report



MATHCOUNTS[®]
FOUNDATION

Solving the Unexpected

“As we prepare to embark on our next program year—full of its own set of unknowns—we are inspired by our resilient students and heartened by the extraordinary community of people who will keep helping us solve the unexpected.

No matter what 2021 brings, together, we will successfully face it. We are learning, adapting and tackling the challenges of these unpredictable times.”

At MATHCOUNTS, we talk often about the importance of problem solving...

We encourage students to embrace the struggle and imagination of tackling math problems they do not know how to solve. We celebrate students who try again after falling short. We push students to apply math to real-world situations so they not only can answer questions but also use their problem-solving skills to question the answers they already have.

This year, across the globe, we have been shaken by problems we don't know how to solve (yet), and our lives, communities and well-being are at stake. The entire MATHCOUNTS community has been affected by COVID-19, by racism and deaths that have horrified us and driven us to challenge the status quo, and by isolation and stress that have made us feel alone when we are most in need of connection.

But while these challenges have been unprecedented, so, too, has our response to them. People across the country have sacrificed, protested and volunteered to make the world better—to solve the unexpected. Members of the MATHCOUNTS community have created apps for tracking COVID cases, started non-profits and companies to create ventilators and masks, and planned new outreach projects to bring MATHCOUNTS to more students of color and underserved areas.

Our community has shown that, while unexpected challenges throw us off balance, we can get back up with imagination, problem solving and support for each other:

- Coaches and Mathletes® whose competitions were canceled kept practicing and turned MATHCOUNTS Week into a huge virtual celebration.
- Clubs shifted to virtual meetings, including Math Club Day, and some of our math clubs used their Gold Level projects to help their communities cope with COVID-19.
- Coordinators and teachers across the country worked tirelessly in February and early March to give students the best possible MATHCOUNTS experience.
- Sponsors, alumni and parents have donated funding, time and hard work to bring digital MATHCOUNTS resources and programming to students, families and teachers most in need.

As we prepare to embark on our next program year—full of its own set of unknowns—we are inspired by our resilient students and heartened by the extraordinary community of people who will keep helping us solve the unexpected. No matter what 2021 brings, together, we will successfully face it. We are learning, adapting and tackling the challenges of these unpredictable times.



Students at the Manhattan Chapter Competition



Christopher L. Turner

Christopher L. Turner
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Kristen L. Chandler

Kristen L. Chandler, CAE
Executive Director
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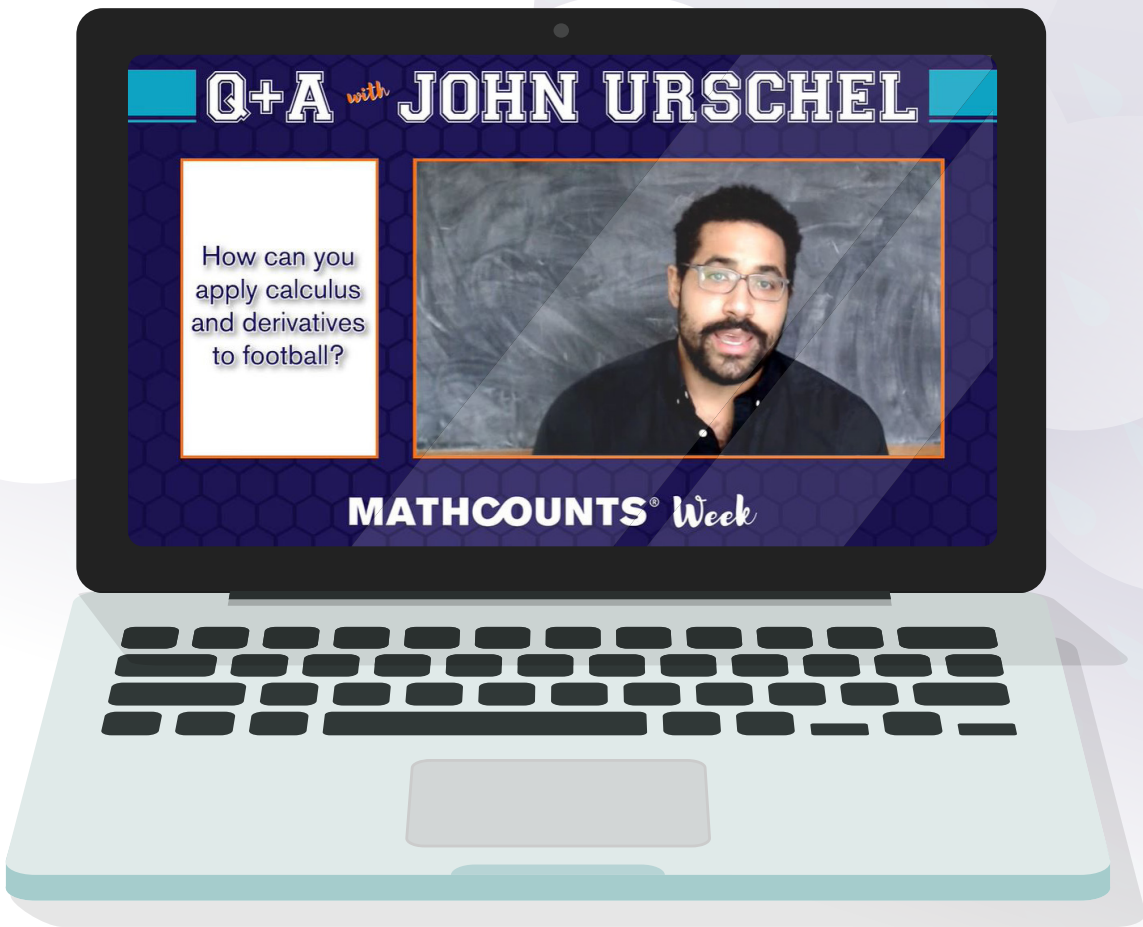
First-Ever “MATHCOUNTS Week”

Brings Together Thousands Online

The MATHCOUNTS community is united by problem solving even when we cannot meet in person. While MATHCOUNTS was unable to host the national competition during the coronavirus pandemic, we facilitated a virtual celebration from May 11-15. The first-ever MATHCOUNTS Week, powered by Art of Problem Solving, brought together thousands of students, teachers, parents and volunteers who love math.

One of the week’s main events gave MATHCOUNTS community members—including students whose state competitions were canceled in March—the opportunity to take the 2020 MATHCOUNTS State Competition. Over 7,000 participants took on the challenge of this unofficial, virtual Open MATHCOUNTS State Competition, a majority of whom also participated in the collaborative Team Round.

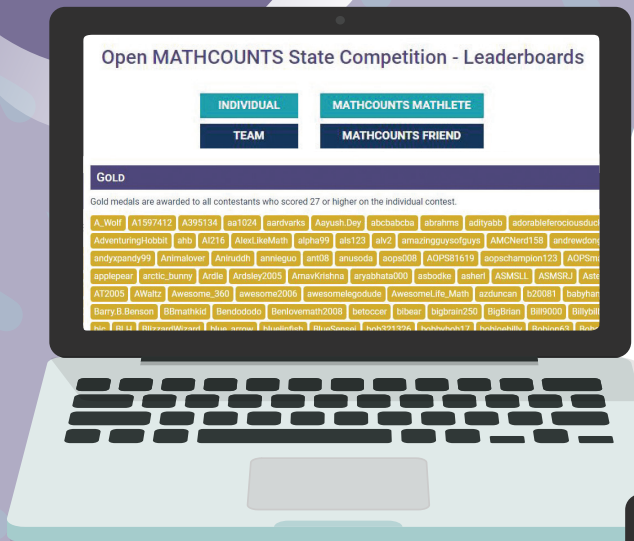
After the Open MATHCOUNTS State Competition, 3,330 participants joined a four-hour-long discussion of the event’s toughest problems in a chat room facilitated by Art of Problem Solving. Over 2,000 viewers tuned in to a virtual Q&A with MATHCOUNTS alumnus, mathematician and former NFL player John Urschel, and nearly 2,500 participants attended the World’s Largest Countdown Round, a virtual bee-style contest on the Art of Problem Solving website.



Screenshot of the Q&A with John Urschel

96,824

correct answers in the
Open MATHCOUNTS
State Competition



Screenshot of the Open MATHCOUNTS
State Competition Leaderboard

MATHCOUNTS® WEEK
powered by AoPS

An Example Problem

How many of the first 2019
positive integers have no odd
single-digit prime factors?

See the answer on pg. 21

3,330

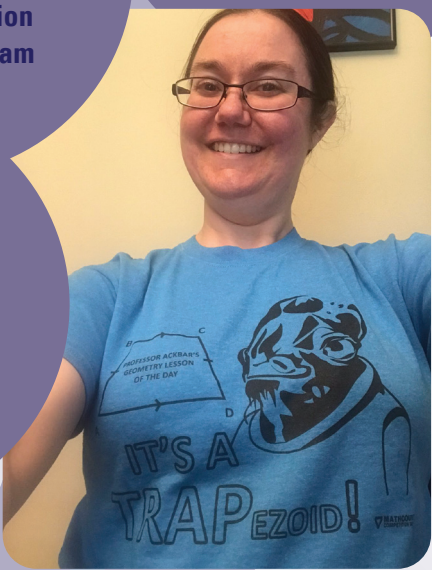
participants in the
State Competition
Review Math Jam

7,112

participants in the
Open MATHCOUNTS
State Competition

69,308

messages sent in
the World’s Largest
Countdown Round



During MATHCOUNTS Week, members of the
MATHCOUNTS community shared selfies in their favorite
math T-shirts on social media with #StillCOUNTing



Screenshot from the Countdown
Round Finals Mashup

*“It’s been so fun being immersed in a
weeklong competition math adventure.
But, really, the best part was to see how
many people participated throughout the
week! Thank you, MATHCOUNTS, Art of
Problem Solving, Raytheon Technologies
and all others for a successful, fun and
amazing MATHCOUNTS Week!”*

– Meg Grivna Schlukiebier, MN

MATHCOUNTS Awards 4 Alumni Scholarships

Thanks to Title Sponsor Raytheon Technologies, this year MATHCOUNTS awarded scholarships to four bright, deserving alumnae: Trisha Boonpongmanee, Marie Brodsky, Lauren Chen and Sri Meghana Kopparthi. These young women also shared words of advice with current Mathletes during MATHCOUNTS Week.

Trisha Boonpongmanee Richland, WA

Trisha was inspired by her MATHCOUNTS experience to revive a middle school math competition in her community, spearheading the effort as the tournament director. She also uses her math skills to analyze finances at the local clinic her family runs. Her interest in the Fourier transform led her to research pancreatic cancer, and she presented her findings at a TEDx event. Trisha will study mathematics at Princeton University this fall.



Marie Brodsky Rockville, MD

A past participant in both the National Math Club and Competition Series, Marie has proven her passion for math education by leading a math circle program, organizing a TEDx event at her school and even working on her own book on the subject. She also has proven her own math ability as a semifinalist in the M3 Mathworks Math Modeling Challenge and a winner of the Congressional App Challenge. Marie will study mathematics at the University of Maryland this fall.

2020 Alumni Scholarship Finalists

Alexander Bean, NV
Aleya Bia, NM
Govind Chada, TX
Connie Chen, IL
Neil Deshmukh, PA

Gabriel Diraviam, FL
Elizabeth Kemp, TX
Anne Li, AR
Rupert Li, OR

Austen Mazenko, CO
Prastik Mohanraj, CT
Christopher Pondoc, MD
Joy Shi, MD



Lauren Chen Irmo, SC

A MATHCOUNTS coach and founder of her school's Mu Alpha Theta chapter, Lauren is passionate about getting girls excited about math. Winning the NCWIT Award for Aspirations in Computing allowed her to create Girls Go for I.T., a STEM summer camp for middle school girls. She also was a finalist in the Intel Science and Engineering Fair and Regeneron Science Talent Search for her research on breast cancer. Lauren will study mathematics at Harvard University this fall.

Sri Meghana Kopparthi Jacksonville, FL

As a MATHCOUNTS coach, Meghana was inspired by the artistic talents of her students to take a more creative, collaborative approach to teaching math. She founded a nonprofit tutoring business to support students, which raised money for her mother's home village in India. She also won the Presidential Volunteer Service Award for her service in education. Meghana will study philosophy and political science at Dartmouth College this fall.



Students and Coaches Were #StillCOUNTing

While Distance Learning

Though every MATHCOUNTS program was affected by the coronavirus pandemic, the problem solving did not end.

- MATHCOUNTS provided an online guide to hundreds of free online math resources for educators, parents and students to use from home.
- MATHCOUNTS recategorized dozens of worksheets, lesson plans and videos by math topic so teachers and families could easily find the right complement to virtual lessons.
- Parents and guardians were granted special online access to the National Math Club’s resources so families could engage in fun math activities from home.
- MATHCOUNTS developed the #StillCOUNTing communications campaign to share daily Twitter problems and highlight video lessons each week.

These online resources were featured in the “Doing our part, at home” directory created by *The Washington Post*.



At right, top-scoring students from the Southeast Minnesota Chapter Competition. Below, students at the Manhattan Chapter Competition.



Founded in 1983, the MATHCOUNTS Competition Series makes math exciting and social, while building the critical-thinking and problem-solving skills students need to reach their full potential in mathematics. This year, over 84,000 U.S. middle school students prepared for competitions across the country.

This year’s program launched in June 2019, and coaches started preparing Mathletes using the 2019-2020 MATHCOUNTS School Handbook in August. Over 6,400 other educators and students also downloaded an electronic version of the handbook for free from the MATHCOUNTS website. After spending December and January participating in school competitions, 38,543 of the nation’s top Mathletes represented their schools at chapter competitions throughout February.

Although the competition season was cut short by the coronavirus pandemic, 23 state competitions took place in early March. Thanks to sponsors of MATHCOUNTS, including Raytheon Technologies, our 92 national qualifiers received special awards and were recognized during MATHCOUNTS Week.


2-Time National Qualifiers

- | | |
|------------------------------|--------------------------|
| Ellie Feng, AR | Patrick Shen, ND |
| Athiwa Ackaramongkolrotn, GA | Razzi Masroor, OH |
| Krishna Pothapragada, IL | Tanishq Pauskar, OH |
| Rebecca Xue, KS | William Bruno, RI |
| Yuan Du, MT | Ahan Shi, SC |
| Jonas Zeiler, MT | Kiran Reddy, UT |
| Garima Rastogi, NH | Kartik Ramachandrule, WI |
| Davis Zong, NY | Felicity Olsson, WY |

MEET THE MATHLETES

Alex Acosta
7th Grade
St. Albans School
District of Columbia


Alex is a swimmer and rock-climber, and he enjoys magic tricks, yoyo-ing, solving Rubik’s cubes, kayaking, and collecting Star Wars bobble heads!



MEET THE MATHLETES

Felicity Olsson
8th Grade
Lander Middle School
Wyoming

Felicity enjoys cross country skiing, horseback riding, helping dad renovate the house and speaking Latin (quantum possum!).



MEET THE MATHLETES

Aaron Lin
6th Grade
Ladue Middle School
Missouri

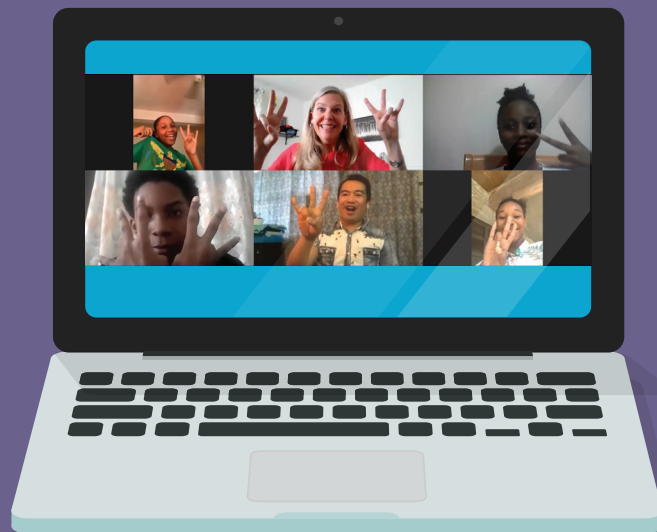
Aaron loves playing chess, piano, soccer, practicing martial arts, and skiing.



3-Time National Qualifiers

- Mingwen Duan, CT
Julian Vertigan, LA
Rick Peng, ND
Andrew Song, RI

In a record-breaking year for the Math Video Challenge, student filmmakers created 480 videos solving MATHCOUNTS problems in a real-world setting. This 80% increase from last year's video submissions came as MATHCOUNTS made several changes to the program based on team feedback. This year, each video went through a formal judging process rather than depending on public voting to determine students' advancement to the second phase of the contest. For the first time, each team was mailed a Producers Pack with program resources, including a smartphone tripod for filming. MATHCOUNTS also expanded the awards for teams, including Judges' Choice Awards for teams excelling in creativity.



Screenshot from a video interview with the Full Force Engineers team, moderated by Kristen Chandler.

2020 Math Video Challenge Finals

Advisors registered four-person teams in the fall and winter and submitted videos by March 6. After two rounds of scoring, expert judges selected four finalist videos. The 2020 Math Video Challenge Finals event was conducted virtually as part of MATHCOUNTS Week, and the First Place Video was determined by expert judges. Finalist teams each gave a behind-the-scenes perspective on their project in video interviews moderated by executive director Kristen Chandler. The video "Full Force Engineers" won First Place, and "Catching Circumference Sally" won the Mathletes' Choice Award following public voting during MATHCOUNTS Week.



80%

increase in
video submissions
this year



2020 First Place Video

"Full Force Engineers"

by **Full Force Engineers (U.S. Virgin Islands)**

L'Rynzo Abraham, Teniesha Alcendor, Ciara Rodney and Gia Tuckett; Mark Joseph Sy, Team Advisor

After a hurricane hits, a team of engineers must use geometry to repair their community's school and get funding from a wealthy businesswoman.

2020 Mathletes' Choice Video

"Catching Circumference Sally"

by **Diameter Detective Agency (Nebraska)**

Jenna Box, Ava Buggi, Evie Dorman and Cora Krog; Kylie Hein, Team Advisor

The notorious villain Circumference Sally is robbing banks all over town, and the detectives at Diameter Detective Agency must use their geometric knowledge to determine where Sally is headed next.



2020 Finalist Videos

"The Fast and Curious: Black Heroes and Sheroes Race for the Cure" by **DMV NSBE Jr. Team #1 (District of Columbia)**

Arielle Ericsson White, Sharli Fleming, Dawud Muhammad and Monae Rucker; Karrima Muhammad, Team Advisor

Famous Black astronauts and scientists from history help an astronaut and her team get a cure for the coronavirus back to earth.



"#VI Stronger - Let's GO Engineers!"

by **Let's GO Engineers! (U.S. Virgin Islands)**

Darnell Birmingham, Jermaine Jones, Gloria Lugo and Massiyah Thomas; Mark Joseph Sy, Team Advisor

A team of engineers are rebuilding houses following a hurricane. When an engineer forgets to take some measurements in the field, the team must use geometry to finish their work.

1,942

votes placed for
the Math Video
Challenge Mathletes'
Choice Award



The Orlando Science School math club created a math-themed escape room for its Gold Level Project.

The National Math Club is a free program that gives students in grades 6-8 the opportunity to engage in fun math games and activities in a non-competitive, social environment. This year, almost 3,400 educators registered for the National Math Club and received free hands-on online resources to make learning math fun for students at every level of math skill development.

In response to educator feedback, this year MATHCOUNTS added dozens more online resources for club leaders. MATHCOUNTS also provided a suggested calendar to help club leaders plan different activities each week.

Nearly 300 active clubs achieved Silver Level recognition and 88 clubs earned Gold Level status for completing a collaborative project. Silver and Gold clubs earned pennants, banners, pencils, certificates and entry into prize drawings.

The International Academy of Columbus math club held a family math night for its Gold Level Project, which brought together students for math activities.



**NORTHROP
GRUMMAN**
FOUNDATION

Virtual “Math Club Day”

Recognizes Clubs

In response to school closings, many clubs used their collaborative Gold Level Projects to serve other students virtually. One club from Washington Episcopal Middle School produced a fun video about area for 3rd and 4th grade teachers to use during distance learning in May. Other clubs found everyday examples of math concepts in their homes.

To celebrate clubs’ accomplishments, a virtual Math Club Day was held on July 8. National Math Club participants and others in the MATHCOUNTS community explored a social media scavenger hunt, solved a special club-themed problem set and played Math BINGO. At the end of the day, MATHCOUNTS announced the Gold Level Grand Prize winning club: Memorial Lutheran School in Houston, TX, which won a \$500 gift card and special prizes for its club members.



The Academy of Medical Technology math club created a Math Video Challenge video for its Gold Level Project.

Grand Prize Drawing Winner

Memorial Lutheran School, TX

Gold Level Drawing Winners

Friedell Middle School, MN
John W. Moore Math Club, SC
St. Matthew School, TN

Trinity Lutheran School, IL
Yavneh Hebrew Academy, CA

Silver Level Drawing Winners

Berkeley Carroll School, FL
Central Maryland Homeschool, MD
Challenger School, CA
Corning Christian Academy, NY
Glasgow Middle School, MT
Herbert Hoover Middle School, NJ
Highland Elementary Math Team, UT

International Academy of Columbus, OH
Lake Village Elementary School, IN
Manchester Middle School, VT
Marvin L. Winans Academy of Performing Arts, MI
Mt. Pleasant Middle School of the Visual and Performing Arts, TN
Oliver Middle School, OK

Southeast of Saline Junior High School, KS
St. Catharine, OH
St. John Regional School, NH
St. Rose of Lima, CT
Terrace Community Middle School, FL
Weller Elementary School, AK
West Cary Middle School Math Club, NC

781

participants in
Math BINGO

2019-2020 National Organization Donors

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“MATHCOUNTS teaches us to be
unafraid of tackling problems and
instead motivates us to turn challenges
into welcome opportunities for growth.
The feeling of being stuck is crucial to
experience and teaches us to push on.”

– Marie Brodsky, MD



Students at the Manhattan Chapter Competition

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“MATHCOUNTS has fueled my desire to use mathematics as a lens from which to approach large-scale systemic issues and tackle global challenges head-on by using the numbers...Math is the greatest arrow in truth’s quiver. And we need truth to win.”

– Trisha Boonpongmanee, WA



Students at the Manhattan Chapter Competition

“The lessons I learned were to prepare for the unexpected, study up for big events, always try again, and keep going with your passions, even when they’re hard.”

– Maxwell Stine, MD

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University of North Carolina at Chapel Hill Department of Mathematics

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Acuity



Students at the Traverse Des Sioux Chapter Competition



Students at the Manhattan Chapter Competition

2019-2020 State and Chapter Coordinators

Every year, over 600 volunteer coordinators make the Competition Series possible by planning and running chapter competitions around the country. Coordinators surmount obstacles every year to keep events running smoothly, but this year presented extraordinary challenges. MATHCOUNTS is especially grateful for the flexibility and dedication coordinators showed this year as they responded to unexpected changes.

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Financials

Audited Financials
August 1, 2018 – July 31, 2019

	UNRESTRICTED	TEMPORARILY RESTRICTED	TOTAL
REVENUE			
Contributions and Grants	\$773,750	\$850,000	\$1,623,750
School Registration Fees	\$1,065,498		\$1,065,498
Coaching Materials Revenue	\$98,380		\$98,380
National Competition Revenue	\$55,179		\$55,179
Sale of Trophies and Promotional Items	\$22,323		\$22,323
Investment Income	\$73,238		\$73,238
Net Assets Released from Restrictions	\$875,000	(\$875,000)	
Total Revenue	\$2,963,368	(\$25,000)	\$2,938,368
EXPENSES			
PROGRAM SERVICES			
Competition Series	\$1,757,289		\$1,757,289
The National Math Club	\$214,679		\$214,679
Math Video Challenge	\$114,381		\$114,381
College and Outreach Programs	\$219,207		\$219,207
School Recruitment	\$138,217		\$138,217
Production of Coaching Materials	\$40,542		\$40,542
Total Program Services Expenses	\$2,484,315		\$2,484,315
SUPPORT SERVICES			
General and Administration	\$203,858		\$203,858
Fundraising	\$174,065		\$174,065
Total Support Services Expenses	\$377,923		\$377,923
Total Expenses	\$2,862,238		\$2,862,238
CHANGE IN NET ASSETS	\$101,130	(\$25,000)	\$76,130

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Answer to the problem from the Open MATHCOUNTS State Competition: 923

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