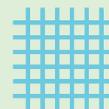
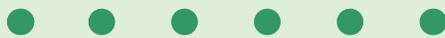


FUNDAPROMAT

Activity Archive
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**Panamanian Foundation for
the Promotion of Mathematics**

FUNDAPROMAT

The Panamanian
Foundation for the
Promotion of Mathematics
(FUNDAPROMAT) seeks to
change the world's
perception so that one and
all can experience
mathematics as
accessible, relevant and
inherently joyous.



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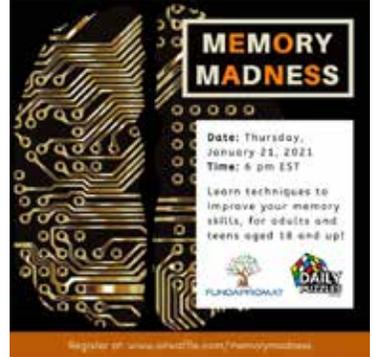
Join our math outreach
activities, which are free and
open to the general public!

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JANUARY 2021

<p style="font-size: 2em; font-weight: bold;">19</p> <p>7:00 PM - 9:00 PM</p>		<h3>Ninth Virtual MathsJam in Panama</h3> <p>The ninth Virtual MathsJam in Panama took place on Tuesday, January 19th, 2021 from 7 pm until 9 pm. The MathsJam is a monthly opportunity for math enthusiasts who are 18 years and older to share some quality time with like-minded individuals while solving math puzzles and intellectual challenges in a collaborative environment.</p> <p>This virtual event was free and only for adults. Dr. Jeanette Shakalli, Executive Director of FUNDAPROMAT, acted as the moderator. In this event, participants solved different math challenges using their creativity and imagination. In particular, we discussed the solution of a puzzle that was presented in the last MathsJam of 2020, which involves a curious sequence of numbers.</p> 
<p style="font-size: 2em; font-weight: bold;">21</p> <p>2:00 PM - 3:30 PM</p>		<h3>Webinar on Mathematical Humor</h3> <p>The Webinar on Mathematical Humor took place on Thursday, January 21st, 2021 from 2 pm until 3:30 pm, with the mathemagician Andres Rieznik from Argentina, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker presented a mathematical show with several fascinating tricks mixed with math jokes. Andres Rieznik squared numbers of two, three and even four digits faster than a calculator; identified the day of the week in which a participant was born only by knowing their date of birth; made a magic square with a two-digit number that a participant randomly selected; indicated the missing digit of a number resulting from multiplying by 27 done by two participants; and showed a trick with 4 pieces of paper with the letters A, B, C and D. The speaker also explained the math secrets behind some of these tricks, that appear in his book "Mental Athletics."</p> 
<p style="font-size: 2em; font-weight: bold;">21</p> <p>6:00 PM - 7:00 PM</p>		<h3>Third Memory Madness</h3> <p>The third Memory Madness took place on Thursday, January 21st, 2021 from 6 pm until 7 pm. This virtual event was free, aimed at adults and teens aged 18 and up, and was given by the professional speedcuber Sydney Weaver.</p> <p>On this virtual event, the invited speaker reviewed basic concepts about memory and several strategies to memorize information. Sydney Weaver then described how to exercise your memory correctly and highlighted the importance of repetition, the time of day when you practice and how much time you spend practicing.</p> 
<p style="font-size: 2em; font-weight: bold;">22</p> <p>10:00 AM - 11:00 AM</p>		<h3>Webinar on Exploding Dots</h3> <p>The Webinar on Exploding Dots took place on Friday, January 22nd, 2021 from 10 am until 11 am, with the mathemagician Sergio Belmonte, Vice President of the Museum of Mathematics of Cataluña (MMACA), as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker explained the history of the number system by exploding dots. Sergio Belmonte then described the basic operations of addition, subtraction, multiplication and division through fun explosions. The speaker also mentioned that this new way of playing with mathematics is an initiative created by James Tanton as part of the "Global Math Project," which takes place every year for students and institutes all around the world. This virtual event was co-organized with the Museum of Mathematics of Cataluña (MMACA).</p> 

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<p style="text-align: center; font-size: 2em; font-weight: bold;">23</p> <p>10:00 AM - 11:30 AM</p>		<h3>Sixth Math Jamboree</h3> <p>The sixth Math Jamboree took place on Saturday, January 23rd, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this sixth Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called “Coin Flipper” in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Sydney Weaver for designing this activity for FUNDAPROMAT.</p>
<p style="text-align: center; font-size: 2em; font-weight: bold;">26</p> <p>4:00 PM - 5:30 PM</p>		<h3>Twenty-Seventh Virtual Origami Class</h3> <p>The twenty-seventh Virtual Origami Class took place on Tuesday, January 26th, 2021 from 4 pm until 5:30 pm, with the origami artist Noelia Avila as our invited speaker. This virtual event was free and open to the general public.</p> <p>Participants began the class by cutting one sheet of 8.5 x 11 paper to form a square. Noelia Avila then taught how to fold an angel fish, which is a traditional origami model. This origami design is appropriate for 8-year-olds and above.</p>
<p style="text-align: center; font-size: 2em; font-weight: bold;">26</p> <p>6:00 PM - 7:00 PM</p>		<h3>Sixth Cubing Puzzle Happy Hour</h3> <p>The sixth Cubing Puzzle Happy Hour took place on Tuesday, January 26th, 2021 from 6 pm until 7 pm. This virtual event was free, aimed at adults and teens aged 18 and up, and was given by the professional speedcuber Sydney Weaver. The purpose of this virtual event is to connect speedcubers with math enthusiasts.</p> <p>On this Happy Hour, participants explored the universe of recreational mathematics with cubing puzzles. The speaker presented several fun puzzles that the participants solved together as a team.</p>
<p style="text-align: center; font-size: 2em; font-weight: bold;">27</p> <p>5:00 PM - 6:30 PM</p>		<h3>Webinar on Can We Trust the Vaccine for COVID-19?</h3> <p>The Webinar on Can We Trust the Vaccine for COVID-19? took place on Wednesday, January 27th, 2021 from 5 pm until 6:30 pm, with Dr. Nestor Sosa, Chief of the University of New Mexico's Infectious Disease Division and ex Director of the Gorgas Commemorative Institute of Health Studies, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event with a description of what vaccines are, how they are made and how they act in our organism. Dr. Nestor Sosa then presented on the vaccines developed to combat COVID-19 and made a comparison between the different vaccines that have been developed so far, highlighting certain characteristics, like the dose quantity, the interval of dose application, the efficacy, the place of origin, the absolute contraindications, among others. The speaker also clarified the doubts and worries of the participants on this topic. This virtual event was co-organized with the Panamanian Association for the Advancement of Science (APANAC) and the Panama Pod of 500 Women Scientists.</p>

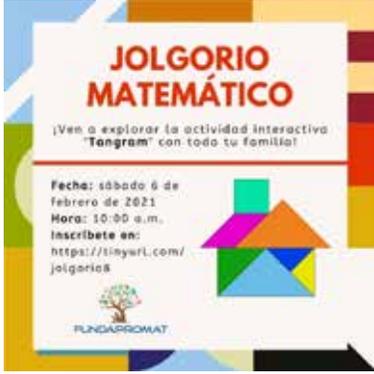
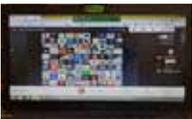
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<p style="text-align: center; font-size: 2em; font-weight: bold;">28</p> <p style="text-align: center;">2:00 PM - 3:30 PM</p>		<p>Webinar on Math and Poetry</p> <p>The Webinar on Math and Poetry took place on Thursday, January 28th, 2021 from 2 pm until 3:30 pm, with Adriana Leon, Valeria Zuñiga, Paola Serrano and Alejandra Pacheco from Mexico, as our invited speakers. This virtual event was free and open to the general public.</p> <p>The invited speakers explained that math and poetry have a close relation because they are both daughters of imagination. The speakers analyzed a poem that is called “The Precise Kiss” written by the chemist Frederick Soddy. They also shared a poem inspired by the Fibonacci series and another poem about zero and infinity, and highlighted the mathematician Lewis Carroll who wrote “Alice in Wonderland,” Ada Lovelace and Emmy Noether.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">29</p> <p style="text-align: center;">12:00 PM - 1:30 PM</p>		<p>Webinar on Mathematical Magic</p> <p>The Webinar on Mathematical Magic took place on Friday, January 29th, 2021 from 12 pm until 1:30 pm, with the mathemagician Fernando Blasco, President of the Outreach Commission of the Spanish Mathematical Royal Society (RSME), as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker presented several magic tricks and then described the mathematical secrets behind some of these tricks. Some of the tricks that Fernando Blasco performed included guessing the last digit of a bar code, identifying the day of the week given a date, making a magic square, doing a trick with a rope, and many more. The speaker also recommended several books of mathemagic for those who are interested in learning more about this fascinating topic. This virtual event was co-organized with the Spanish Mathematical Royal Society (RSME).</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">30</p> <p style="text-align: center;">10:00 AM - 11:30 AM</p>		<p>Seventh Math Jamboree</p> <p>The seventh Math Jamboree took place on Saturday, January 30th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this seventh Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Secret Messages» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Rafael Araujo for designing this activity for FUNDAPROMAT.</p> 

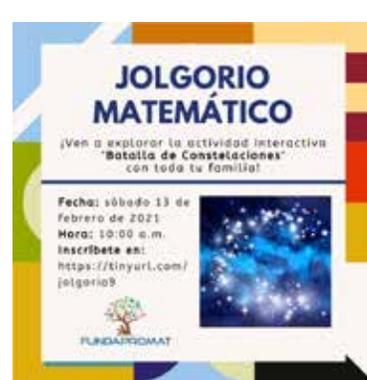
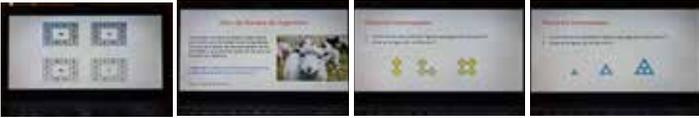
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<p style="text-align: center; font-size: 2em; font-weight: bold;">2</p> <p style="text-align: center;">4:00 PM - 5:00 PM</p>		<h3>Twenty-Eighth Virtual Origami Class</h3> <p>The twenty-eighth Virtual Origami Class took place on Tuesday, February 2nd, 2021 from 4 pm until 5 pm, with the origami artist David Medina as our invited speaker. This virtual event was free and open to the general public.</p> <p>Participants began the class by cutting one sheet of 8.5 x 11 paper to form a square. David Medina then taught how to fold a jumping frog, which is a traditional origami model. This origami design is appropriate for 8-year-olds and above.</p>
<p style="text-align: center; font-size: 2em; font-weight: bold;">3</p> <p style="text-align: center;">5:00 PM - 6:00 PM</p>		<h3>First Math Webinar in English</h3> <p>The first Math Webinar in English took place on Wednesday, February 3rd, 2021 from 5 pm until 6 pm with Colin Wright, Founder of Solipsys Limited and Organizer of the MathsJam Annual Gathering, as our invited speaker. This virtual event was free and open to the general public. This virtual event was free and open to the general public.</p> <p>In this first Math Webinar in English, Colin Wright presented on “Colours Can Compute.” The speaker began the virtual event by describing the Four Colour Theorem and then shared a few games with colouring maps. Colin Wright connected these colouring maps with the way you arrange networks and ended by showing other applications of this problem on our daily lives.</p>
<p style="text-align: center; font-size: 2em; font-weight: bold;">4</p> <p style="text-align: center;">2:00 PM - 3:30 PM</p>		<h3>Webinar on Playing is a Serious Matter</h3> <p>The Webinar on Playing is a Serious Matter took place on Thursday, February 4th, 2021 from 2 pm until 3:30 pm, with Silvina Naidicz, organizer of workshops of games of ingenuity from Argentina, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker commented on the workshops of games of ingenuity that she organizes in person in Argentina, the type of games that she presents in these workshops and the results that she has observed from her participants. Some of the games of ingenuity that Silvina Naidicz mentioned include the Game of SET, the Rubik’s Cube, Chocolate Fix, Swish, Rush Hour, Crazy Bubbles and many more. The speaker also highlighted that playing is one of the best methods to develop a complex brain.</p>
<p style="text-align: center; font-size: 2em; font-weight: bold;">5</p> <p style="text-align: center;">12:00 PM - 1:30 PM</p>		<h3>Webinar on Choreography of a Mathematician</h3> <p>The Webinar on Choreography of a Mathematician took place on Friday, February 5th, 2021 from 12 pm until 1:30 pm, with Dr. Eduardo Mancera, Vice President of the Interamerican Committee on Math Education, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker highlighted that the development of mathematical thinking is a creative act that does not depend on memory or on certain skills, but on continuous inquiry and the approach and the exploration of all types of possibilities. Dr. Eduardo Mancera emphasized that knowing how to use the symbols does not imply the understanding of the mathematics, and that solving a problem is not the end of the math activity, but only the beginning. The speaker also stated that doing mathematics is not only repeating procedures, having good memory, using symbols... Doing mathematics is imagining procedures, making mistakes and fixing them, finding analogies, arguing, using diverse contents, creating paths in one direction and in the opposite...</p>

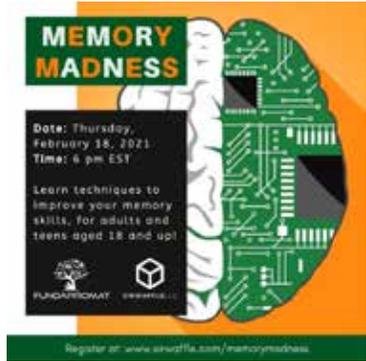
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<p style="text-align: center; font-size: 2em; font-weight: bold;">6</p> <p>10:00 AM - 11:30 AM</p>		<h3>Eighth Math Jamboree</h3> <p>The eighth Math Jamboree took place on Saturday, February 6th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this eighth Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called “Tangram” in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Marleny Vargas for designing this activity for FUNDAPROMAT. You can watch the promotional video of Tangram in Spanish created by Glasswing International here.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">8</p> <p>7:00 PM - 7:30 PM</p>		<h3>Math Coffee with Yamiselle</h3> <p>The Math Coffee with Yamiselle took place on Monday, February 8th, 2021 from 7 pm until 7:30 pm. The special guest of our first Instagram Live was Yamiselle Diaz, actress, educational psychologist and FUNDAPROMAT volunteer.</p> <p>In this Math Coffee, Yamiselle Diaz told us about her personal story with mathematics, about her favorite FUNDAPROMAT virtual event and about her experience as volunteer in the Math Jamborees organized by FUNDAPROMAT. You can watch the video by visiting our Instagram account: @fundapromat or by clicking here.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">9</p> <p>4:00 PM - 5:00 PM</p>		<h3>Twenty-Ninth Virtual Origami Class</h3> <p>The twenty-ninth Virtual Origami Class took place on Tuesday, February 9th, 2021 from 4 pm until 5 pm, with the origami artist Matthew Green as our invited speaker. This virtual event was free and open to the general public.</p> <p>Participants began the class by cutting one sheet of 8.5 x 11 paper to form a square. Matthew Green then taught how to fold a canoe that floats, which is a traditional origami model. This origami design is appropriate for 8-year-olds and above.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">10</p> <p>12:00 PM - 1:00 PM</p>		<h3>Webinar on Let's Play with Numbers</h3> <p>The Webinar on Let's Play with Numbers took place on Wednesday, February 10th, 2021 from 12 pm until 1 pm, with Pura Fornals, President of the Museum of Mathematics of Cataluña (MMA-CA), as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker presented 5 curious games: guess which one is missing, think of a number, number poem, hidden numbers and what are we talking about. Pura Fornals also shared the mathematical secrets behind all the games that she described. This virtual event was co-organized with the Museum of Mathematics of Cataluña (MMACA).</p> 

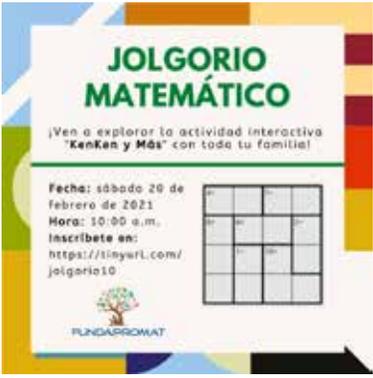
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<p>11</p> <p>2:00 PM - 3:30 PM</p>		<p>Celebration of the International Day of Women and Girls in Science</p> <p>The Celebration of the International Day of Women and Girls in Science took place on Thursday, February 11th, 2021 from 2 pm until 3:30 pm, with the female scientists Eugenia Rodríguez, Marleny Vargas and Argentina Ying as our invited speakers. This virtual event was free and open to the general public.</p> <p>In this virtual event, Eugenia Rodríguez presented on the context of the participation of women in science in Panama. Afterwards, the Panamanian mathematician Marleny Vargas, FUNDAPROMAT volunteer, shared her personal and professional experience as an educator. Finally, the Panamanian scientist Argentina Ying, Vice President of the Panamanian Association for the Advancement of Science (APANAC), described anecdotes of her personal life and her professional journey. This virtual event was co-organized with the Panamanian Association for the Advancement of Science (APANAC) and the Panama Pod of 500 Women Scientists.</p> 
<p>12</p> <p>12:00 PM - 1:00 PM</p>		<p>Nineteenth Virtual Encounter with Outstanding Mathematicians</p> <p>The nineteenth Virtual Encounter with Outstanding Mathematicians took place on Friday, February 12th, 2021 from 12 pm until 1 pm. Laura Gomez Bermeo, President of the Math Education Commission of the Colombian Society of Mathematics, was our invited speaker. This virtual event was free and open to the general public.</p> <p>On this nineteenth Encounter, Laura Gomez Bermeo shared anecdotes of her personal life and her professional journey as a female mathematician, pointing out the importance of telling girls about the women who have been pioneers in science. The speaker also presented on “Hypatia of Alexandria and the Problem of Coconuts and Monkeys,” in which she talked about Hypatia of Alexandria, who is considered to be one of the first female mathematicians in history. Laura Gomez Bermeo then described the problem of coconuts and monkeys and explained the solution to the problem, which involves diophantine equations. This virtual event was co-organized with the Colombian Society of Mathematics.</p> 
<p>13</p> <p>10:00 AM - 11:30 AM</p>		<p>Ninth Math Jamboree</p> <p>The ninth Math Jamboree took place on Saturday, February 13th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this ninth Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called “Constellation Battle” in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Gisela Diaz and Rafael Araujo for designing this activity for FUNDAPROMAT.</p> 
<p>16</p> <p>7:00 PM - 9:00 PM</p>		<p>Tenth Virtual MathsJam in Panama</p> <p>The tenth Virtual MathsJam in Panama took place on Tuesday, February 16th, 2021 from 7 pm until 9 pm. The MathsJam is a monthly opportunity for math enthusiasts who are 18 years and older to share some quality time with like-minded individuals while solving math puzzles and intellectual challenges in a collaborative environment.</p> <p>This virtual event was free and only for adults. Dr. Jeanette Shakalli, Executive Director of FUNDAPROMAT, acted as the moderator. In this event, participants solved different math challenges using their creativity and imagination.</p> 

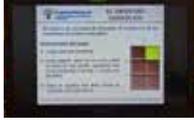
FEBRUARY 2021

<p>17</p> <p>5:00 PM - 6:00 PM</p>		<h3>Magic Show with Nathaniel Segal</h3> <p>The Magic Show with Nathaniel Segal took place on Wednesday, February 17th, 2021 from 5 pm until 6 pm, with the magician Nathaniel Segal as our invited speaker. This virtual event was free and open to the general public.</p> <p>In this virtual event, Nathaniel Segal performed several magic tricks which surprised the audience. Through interactive illusions, close up miracles and special effects in Zoom, the speaker combined magic with humor in this amazing show. A special treat as a result of this virtual event was the conversation between incredible magicians at the end of the show, including Robert Vallin, Isaac Reiter and Sergio Belmonte.</p> 
<p>18</p> <p>2:00 PM - 3:00 PM</p>		<h3>Webinar on Mathemagic as a Teaching Resource</h3> <p>The Webinar on Mathemagic as a Teaching Resource took place on Thursday, February 18th, 2021 from 2 pm until 3 pm, with the mathemagician and teacher Neo Rincon, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by explaining how magic fosters creativity and memory and can also be used to strengthen mathematical thinking. Neo Rincon presented 4 fun magic games and then described how teachers can use these games in their classrooms. The speaker also promoted his Class on Magic with Mathematics. To find out more about his Class, you can contact him at epaleneo-show@gmail.com.</p> 
<p>18</p> <p>6:00 PM - 7:00 PM</p>		<h3>Fourth Memory Madness</h3> <p>The fourth Memory Madness took place on Thursday, February 18th, 2021 from 6 pm until 7 pm. This virtual event was free, aimed at adults and teens aged 18 and up, and was given by the professional speedcuber Sydney Weaver.</p> <p>On this virtual event, the invited speaker reviewed basic concepts about memory and several strategies to memorize information, including lists of numbers, lists of names and other facts. Sydney Weaver then described how to exercise your memory correctly and highlighted that this knowledge helped her to learn how to solve the Rubik's Cube while blindfolded.</p> 
<p>19</p> <p>12:00 PM - 1:00 PM</p>		<h3>Webinar on the Game of MatHex</h3> <p>The Webinar on the Game of MatHex took place on Friday, February 19th, 2021 from 12 pm until 1 pm, with Elena Vazquez Abal, President of the Commission of Women and Mathematics of the Spanish Mathematical Royal Society (RSME), as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker presented on the Game of MatHex, which is based on a grid formed by hexagons inspired by the classic board game HEX created by the mathematicians John Nash and Piet Hein. Elena Vazquez Abal explained that the goal of this game, which can be accessed online for free at https://mathex.games, is to bring science closer to all types of audiences, by combining strategy and knowledge. The speaker also described how this game can be used by teachers in their classrooms and can be adapted depending on the academic level of the students. This virtual event was co-organized with the Spanish Mathematical Royal Society (RSME).</p> 

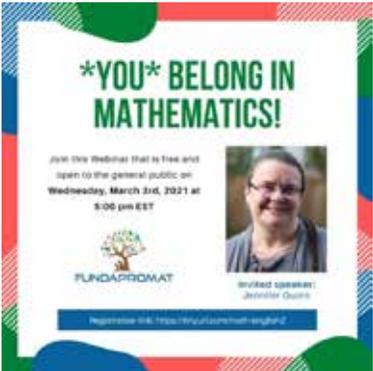
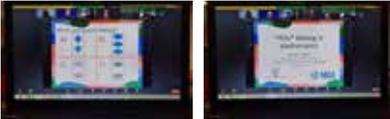
FEBRUARY 2021

<p style="text-align: center; font-size: 2em; font-weight: bold;">20</p> <p>10:00 AM - 11:30 AM</p>	 <p>JOLGORIO MATEMÁTICO ¡Ven a explorar la actividad interactiva "KenKen y Más" con toda tu familia!</p> <p>Fecha: sábado 20 de febrero de 2021 Hora: 10:00 a.m. Inscríbete en: https://tinyurl.com/jolgorio10</p>	<h3>Tenth Math Jamboree</h3> <p>The tenth Math Jamboree took place on Saturday, February 20th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this tenth Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called "KenKen and More" in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Julieta Parravicini for designing this activity for FUNDAPROMAT, based on an original idea of Puri Montesinos.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">23</p> <p>4:00 PM - 5:00 PM</p>	 <p>CLASE DE ORIGAMI</p> <p>Fecha: martes 23 de febrero de 2021 Hora: 4:00 p.m. Idioma: español Materiales: 2 cintas de papel de 4 cm x 50 cm, marcadores de colores, pegamento y tijeras Inscríbete en el link: https://tinyurl.com/origami-virtual10</p> <p>Expositora: Lucía da Costa Materia: Origami, creado por Arthur Stone</p>	<h3>Thirtieth Virtual Origami Class</h3> <p>The thirtieth Virtual Origami Class took place on Tuesday, February 23rd, 2021 from 4 pm until 5 pm, with the origami artist Lucia da Costa as our invited speaker. This virtual event was free and open to the general public.</p> <p>For this class, the participants needed two paper strips of dimensions 4 cm x 50 cm, markers of different colors, glue and scissors. Lucia da Costa taught how to fold a flexagon, which is a model created by Arthur Stone. You can watch the YouTube video of the speaker here. This origami design is appropriate for 8-year-olds and above.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">23</p> <p>6:00 PM - 7:00 PM</p>	 <p>CUBING PUZZLE HAPPY HOUR #7</p> <p>Date: Tuesday, February 23, 2021 Time: 6 pm EST Register at: www.slruffle.com/happyhour</p> <p>Explore the universe of recreational mathematics with cubing puzzles for adults and teens aged 18 and up!</p>	<h3>Seventh Cubing Puzzle Happy Hour</h3> <p>The seventh Cubing Puzzle Happy Hour took place on Tuesday, February 23rd, 2021 from 6 pm until 7 pm. This virtual event was free, aimed at adults and teens aged 18 and up, and was given by the professional speedcuber Sydney Weaver. The purpose of this virtual event is to connect speedcubers with math enthusiasts.</p> <p>On this Happy Hour, participants explored the universe of recreational mathematics with cubing puzzles. The speaker presented several fun puzzles that the participants solved together as a team.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">25</p> <p>2:00 PM - 3:00 PM</p>	 <p>Sudoku y Algunas Variantes Curiosas</p> <p>Fecha: jueves 25 de febrero de 2021 Hora: 2:00 p.m. Inscríbete en: https://tinyurl.com/sudoku-variantes</p> <p>Expositor: Alexander Diaz Lopez</p> <p>Webinar gratis y abierto a todo público</p>	<h3>Webinar on Sudoku and Some Curious Variants</h3> <p>The Webinar on Sudoku and Some Curious Variants took place on Thursday, February 25th, 2021 from 2 pm until 3 pm, with Dr. Alexander Diaz-Lopez, Professor of Mathematics at Villanova University in Pennsylvania, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by explaining how to play sudoku and by briefly sharing the history of this puzzle. Alexander Diaz-Lopez then answered several popular questions on the connections between sudoku and mathematics, like how many sudokus are there, what makes a sudoku easy or hard, and if there is any strategy to solve a sudoku. The speaker also presented on several curious variants of sudoku, like Diagonal Sudoku, Sum Sudoku (which we called SudoKen in our Tenth Math Jamboree), and 3D Sudoku.</p> 

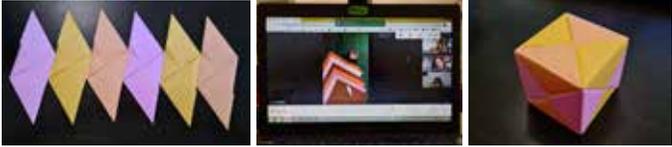
FEBRUARY - MARCH 2021

<p style="text-align: center; font-size: 2em; font-weight: bold;">26</p> <p>12:00 PM - 1:00 PM</p>		<h3>Webinar on Robotics in Medicine</h3> <p>The Webinar on Robotics in Medicine took place on Friday, February 26th, 2021 from 12 pm until 1 pm, with Cecilia Morales, mechanical and biomedical engineer specializing in robotics, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker shared her personal and professional journey and her motivation to work on artificial intelligence. Cecilia Morales then taught us how to program our own robot. The speaker also presented on how mathematics form an integral part of her research and described some inventions on robotics in medicine that do not seek to replace doctors but rather to help them and increase their capacities.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">27</p> <p>10:00 AM - 11:30 AM</p>		<h3>Eleventh Math Jamboree</h3> <p>The eleventh Math Jamboree took place on Saturday, February 27th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this eleventh Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called “The Chocolate Game” in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Camila Espinoza for designing this activity for FUNDAPROMAT, based on Ximena Colipan’s presentation. You can watch the promotional video of The Chocolate Game in Spanish created by Glasswing International here.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">1</p> <p>7:00 PM - 7:30 PM</p>		<h3>Math Coffee with Ramon</h3> <p>The Math Coffee with Ramon took place on Monday, March 1st, 2021 from 7 pm until 7:30 pm. The special guest of our second Instagram Live was Ramon Martinez, math teacher and FUNDAPROMAT volunteer.</p> <p>In this Math Coffee, Ramon Martinez told us about his personal story with mathematics, about his favorite FUNDAPROMAT virtual event and about his experience as volunteer in the Math Jamborees organized by FUNDAPROMAT. You can watch the video by visiting our Instagram account: @fundapromat or by clicking here.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">2</p> <p>4:00 PM - 5:00 PM</p>		<h3>Thirty-First Virtual Origami Class</h3> <p>The thirty-first Virtual Origami Class took place on Tuesday, March 2nd, 2021 from 4 pm until 5 pm, with the origami artist Deanna Kwan as our invited speaker. This virtual event was free and open to the general public.</p> <p>Participants began the class by cutting two sheets of 8.5 x 11 paper to form two squares. Deanna Kwan then taught how to fold a box with ears, which is a model created by Leandro Carlos Madueño. This origami design is appropriate for 8-year-olds and above.</p> 

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<p style="text-align: center; font-size: 2em; font-weight: bold;">3</p> <p>5:00 PM - 6:00 PM</p>		<p>Second Math Webinar in English</p> <p>The second Math Webinar in English took place on Wednesday, March 3rd, 2021 from 5 pm until 6 pm with Jennifer Quinn, President of the Mathematical Association of America (MAA), as our invited speaker. This virtual event was free and open to the general public. This virtual event was free and open to the general public.</p> <p>In this second Math Webinar in English, Jennifer Quinn presented on “YOU Belong in Mathematics!” The speaker began the virtual event by showing the results of a Google search on who are mathematicians. Jennifer Quinn also defined that a math person is first a person and second, someone who enjoys mathematics. Doing math is about having authentic conversations about the patterns that we see and being able to communicate what we discover. The speaker also shared several puzzles of “Which One Doesn’t Belong?” designed so that any of the four options has a reason to be excluded and highlighted that we should rename these puzzles “What Makes Each of These Unique?”</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">4</p> <p>2:00 PM - 3:00 PM</p>	<p style="text-align: center; font-weight: bold; color: red;">Póker y Matemáticas</p> <p>Fecha: jueves 4 de marzo de 2021 Hora: 2:00 p.m. Inscríbete en: https://tinyurl.com/poker-matematicas</p>  <p>Expositor: Gregorio Moreno</p> <p>Webinario gratis y abierto a todo público</p>	<p>Webinar on Poker and Mathematics</p> <p>The Webinar on Poker and Mathematics took place on Thursday, March 4th, 2021 from 2 pm until 3 pm, with Dr. Gregorio Moreno, Professor of Mathematics at the Pontifical Catholic University of Chile, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by describing how to play poker. Dr. Gregorio Moreno then explained that the areas of mathematics that are related to this card game include game theory, probability and combinatorics. The speaker also shared strategies about when to place a bet and highlighted that in poker, you not only need math knowledge to win but you also need to know psychology since the players must control their emotions and their reactions while playing.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">5</p> <p>12:00 PM - 1:00 PM</p>	<p style="text-align: center; font-weight: bold; color: red;">Cómico Matemático</p>  <p>Fecha: viernes 5 de marzo de 2021 Hora: 12:00 m.d. Expositor: Pedro Martínez Inscríbete en: https://tinyurl.com/comic-matematico</p> <p>Webinario gratis y abierto a todo público</p>	<p>Webinar on Mathematical Comic</p> <p>The Webinar on Mathematical Comic took place on Friday, March 5th, 2021 from 12 pm until 1 pm, with Dr. Pedro Martínez, math teacher and creator of the mathematical comic “Mathland,” as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by explaining that the purpose of this mathematical comic is to reduce math anxiety on kids, facilitate abstraction, motivate and capture students’ attention, and promote reading and the taste for art. The comic tells the story of Alan, who is a young boy who does not like mathematics until one day, he mysteriously finds himself trapped in a magical world called “Mathland” where mathematics is the key to returning home. In his adventure, Alan meets peculiar characters like Zero and the magician Algebra. Dr. Pedro Martínez read a chapter of his comic called Algebra’s Challenge, which introduces students to equations. This virtual event was co-organized with the Spanish Mathematical Royal Society (RSME).</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">6</p> <p>10:00 AM - 11:30 AM</p>	<p style="text-align: center; font-weight: bold; color: green;">JOLGORIO MATEMÁTICO</p> <p>¡Ven a explorar la actividad interactiva “Regando Huertas” con toda tu familia!</p> <p>Fecha: sábado 6 de marzo de 2021 Hora: 10:00 a.m. Inscríbete en: https://tinyurl.com/jolgorio12</p> 	<p>Twelfth Math Jamboree</p> <p>The twelfth Math Jamboree took place on Saturday, March 6th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this twelfth Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called “Watering Orchards” in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Gisela Diaz for designing this activity for FUNDAPROMAT.</p> 

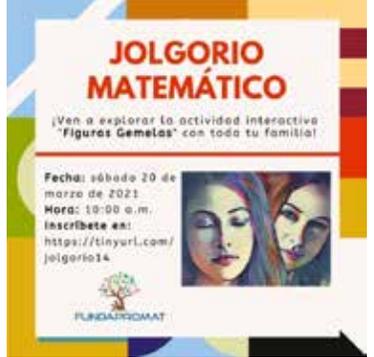
MARCH 2021

<p style="text-align: center; font-size: 2em; font-weight: bold;">9</p> <p>4:00 PM - 5:30 PM</p>		<h3>Thirty-Second Virtual Origami Class</h3> <p>The thirty-second Virtual Origami Class took place on Tuesday, March 9th, 2021 from 4 pm until 5:30 pm, with the origami artist Noelia Avila as our invited speaker. This virtual event was free and open to the general public.</p> <p>For this class, participants needed six paper squares with dimensions 12 cm x 12 cm. Noelia Avila then taught how to fold a cube with Sonobe modules. This origami design is appropriate for 8-year-olds and above.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">10</p> <p>12:00 PM - 1:00 PM</p>		<h3>Webinar on Egyptian Tangram</h3> <p>The Webinar on Egyptian Tangram took place on Wednesday, March 10th, 2021 from 12 pm until 1 pm, with Carlos Luna, high school math teacher and member of the Museum of Mathematics of Cataluña (MMACA), as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by describing the traditional tangram which consists of 7 pieces. Carlos Luna then presented the Egyptian tangram which consists of 5 pieces and explained why they named it Egyptian. The speaker also shared how the Egyptian tangram can be used by teachers to explore math concepts in the classroom, like geometric shapes, the Pythagorean theorem, Pick's theorem, similar figures, the different types of quadrilaterals, triangular paradoxes and golden rectangles. This virtual event was co-organized with the Museum of Mathematics of Cataluña (MMACA).</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">11</p> <p>2:00 PM - 3:00 PM</p>		<h3>Webinar on Math and Videogames</h3> <p>The Webinar on Math and Videogames took place on Thursday, March 11th, 2021 from 2 pm until 3 pm, with Jorge Mejia, high school math teacher in Mexico, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by pointing out that the purpose of the game of minesweeper which was created in 1998 was to teach computer users the button controls of the mouse. Jorge Mejia also described the videogame of Minecraft and explained about object-oriented programming. The speaker also related the game with sets, functions, graphs and other math concepts.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">11</p> <p>5:00 PM - 6:00 PM</p>		<h3>Workshop on the Proof of the Pythagorean Theorem with Origami</h3> <p>The Workshop on the Proof of the Pythagorean Theorem with Origami took place on Thursday, March 11th, 2021 from 5 pm until 6 pm, with the origami artist Stella Ricotti from Argentina as our invited speaker. This virtual event was free and open to the general public.</p> <p>This virtual event was co-organized with the Colombian Society of Mathematics as part of the celebration of the International Day of Mathematics. You can watch the video by visiting the Facebook account of the Colombian Society of Mathematics: @SocColMat.</p> 

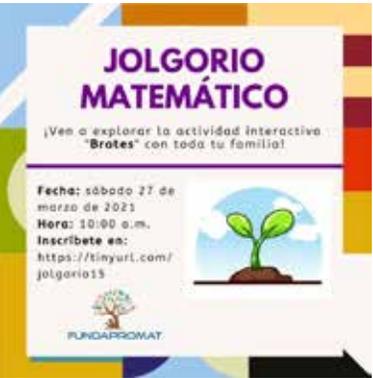
MARCH 2021

<p>12</p> <p>12:00 PM - 1:00 PM</p>		<p>Twentieth Virtual Encounter with Outstanding Mathematicians</p> <p>The twentieth Virtual Encounter with Outstanding Mathematicians took place on Friday, March 12th, 2021 from 12 pm until 1 pm. was our invited speaker. Dr. Gadea Mata, Professor of the University of La Rioja in Spain, This virtual event was free and open to the general public.</p> <p>On this twentieth Encounter, Dr. Gadea Mata shared anecdotes of her personal life and her professional journey as a female mathematician, pointing out that thanks to mathematics, she has been able to travel to many countries. The speaker also presented on “The Mathematics of Images: Analyzing Cells,” in which she shared what a digital image is and how we can obtain them. Then Dr. Gadea Mata described how to analyze biomedical images and explained some of the techniques that she uses like histogram, contrast, threshold and filters.</p> 
<p>13</p> <p>10:00 AM - 11:30 AM</p>		<p>Thirteenth Math Jamboree</p> <p>The thirteenth Math Jamboree took place on Saturday, March 13th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this thirteenth Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Cups and Balls» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Sydney Weaver for designing this activity for FUNDAPROMAT and Julieta Parravicini for creating some of the variants.</p> 
<p>14</p> <p>12:00 PM - 1:30 PM</p>		<p>Mathemagical Show for the International Day of Mathematics</p> <p>The Mathemagical Show for the International Day of Mathematics took place on Sunday, March 14th, 2021 from 12 pm until 1:30 pm. This Webinar was free and open to the general public.</p> <p>In this virtual event for the entire family, the four famous mathemagicians Nelo Maestre, Neo Rincon, Ricardo Teixeira and Bernardo Recaman Santos performed an extraordinary show in which they connected magic with mathematics through tricks with playing cards, numbers and more. For more information on the celebration of the International Day of Mathematics, visit https://idm314.org.</p> 
<p>16</p> <p>4:00 PM - 5:00 PM</p>		<p>Thirty-Third Virtual Origami Class</p> <p>The thirty-third Virtual Origami Class took place on Tuesday, March 16th, 2021 from 4 pm until 5 pm, with the origami artist David Medina as our invited speaker. This virtual event was free and open to the general public.</p> <p>For this class, participants needed one paper square with dimensions 15 cm x 15 cm. David Medina then taught how to fold a dolphin, which is a traditional origami model. This origami design is appropriate for 8-year-olds and above.</p> 

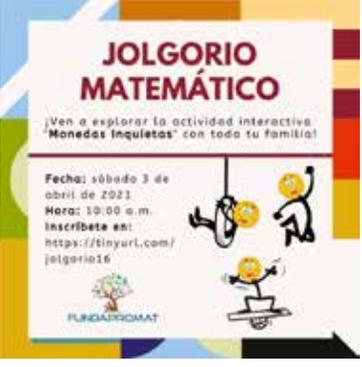
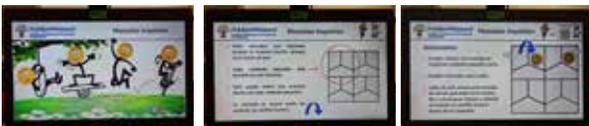
MARCH 2021

<p>18</p> <p>2:00 PM - 3:00 PM</p>		<h3>Webinar on Art, Chance and Musical Games</h3> <p>The Webinar on Art, Chance and Musical Games took place on Thursday, March 18th, 2021 from 2 pm until 3 pm, with the musician and composer of games Rodrigo Valla from Argentina, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by explaining what chance is and defining the concept of a random event. Rodrigo Valla then connected chance with painting through the works of art of Joan Mitchell, with photography through his own experiments with a digital camera and some playing cards, and with music through an initiative in which an auditorium simulated a neural network. The speaker also recommended to visit the sites https://rodrigovala.gitlab.io and https://rodrigovala.com to continue exploring these topics.</p> 
<p>19</p> <p>12:00 PM - 1:00 PM</p>		<h3>Webinar on Let's Play with Words</h3> <p>The Webinar on Let's Play with Words took place on Friday, March 19th, 2021 from 12 pm until 1 pm, with Andrea Zablotzky, specialist in word and logic games and Production Manager of Mind Editions, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by explaining the benefits of solving word games. Andrea Zablotzky then shared several word games including anagrams, multiwords, rebuses, towers, linked words, pizzagrams and many more. The speaker also mentioned several ways in which we can exercise our neurons day by day.</p> 
<p>20</p> <p>10:00 AM - 11:30 AM</p>		<h3>Fourteenth Math Jamboree</h3> <p>The fourteenth Math Jamboree took place on Saturday, March 20th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this fourteenth Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Twin Figures» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Ramon Martinez for designing this activity for FUNDAPROMAT.</p> 
<p>23</p> <p>7:00 PM - 9:00 PM</p>		<h3>Eleventh Virtual MathsJam in Panama</h3> <p>The eleventh Virtual MathsJam in Panama took place on Tuesday, March 23rd, 2021 from 7 pm until 9 pm. The MathsJam is a monthly opportunity for math enthusiasts who are 18 years and older to share some quality time with like-minded individuals while solving math puzzles and intellectual challenges in a collaborative environment.</p> <p>This virtual event was free and only for adults. Dr. Jeanette Shakalli, Executive Director of FUNDAPROMAT, acted as the moderator. In this event, participants solved different math challenges using their creativity and imagination.</p> 

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<p>25</p> <p>2:00 PM - 3:30 PM</p>		<h3>Webinar on Dyscalculia and New Technologies for Learning</h3> <p>The Webinar on Dyscalculia and New Technologies for Learning took place on Thursday, March 25th, 2021 from 2 pm until 3:30 pm, with Andres Rieznik, mathematician and researcher of the National Scientific and Technical Research Council (CONICET) of Argentina, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker explained what dyscalculia is and described the cerebral modules, the plasticity of the brain and the neural recycling. Andres Rieznik highlighted the importance of the early detection of dyscalculia and of the population's awareness about the existence of this math learning disability. The speaker also mentioned that the interventions include making the numbers visible with concrete material, the soft transition from the concrete to the abstract, and the use of visual scaffolding.</p> 
<p>26</p> <p>12:00 PM - 1:30 PM</p>		<h3>Webinar on How to Solve a Murder Using Mathematics?</h3> <p>The Webinar on How to Solve a Murder Using Mathematics? took place on Friday, March 26th, 2021 from 12 pm until 1:30 pm, with Mucuy-kak Guevara, Professor of Mathematics at the National Autonomous University of Mexico (UNAM), as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by explaining what discrete mathematics is and what graphs are. Mucuy-kak Guevara then described several basic results of graph theory that helped us solve the murder of the Duke of Densmore and discover that it was Apolonia, one of his 8 ex wives, who was responsible for his death. The speaker also shared another example in which graph theory can be applied to help 11 classmates organize their birthday parties. para ayudar a 11 compañeros de escuela a organizar sus fiestas de cumpleaños.</p> 
<p>27</p> <p>10:00 AM - 11:30 AM</p>		<h3>Fifteenth Math Jamboree</h3> <p>The fifteenth Math Jamboree took place on Saturday, March 27th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this fifteenth Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Sprouts» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Camila Espinoza for designing this activity for FUNDAPROMAT, inspired by a presentation given by Ximena Colipan. You can watch the promotional video of Sprouts in Spanish created by Glasswing International here.</p> 
<p>30</p> <p>4:00 PM - 5:00 PM</p>		<h3>Thirty-Fourth Virtual Origami Class</h3> <p>The thirty-fourth Virtual Origami Class took place on Tuesday, March 30th, 2021 from 4 pm until 5 pm, with the origami artist Karim Talavera as our invited speaker. This virtual event was free and open to the general public.</p> <p>For this class, participants needed one paper square with dimensions 15 cm x 15 cm. Karim Talavera then taught how to fold a hummingbird, which is a traditional origami model. This origami design is appropriate for 8-year-olds and above.</p> 

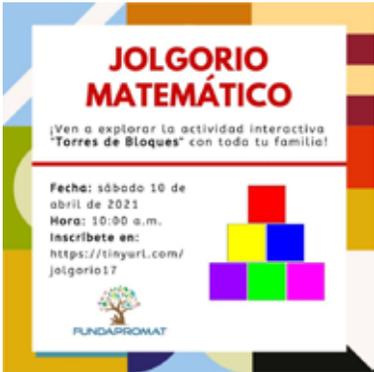
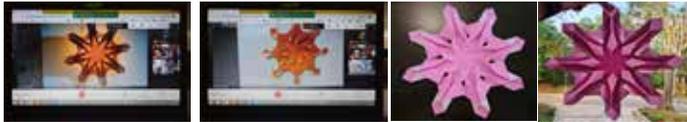
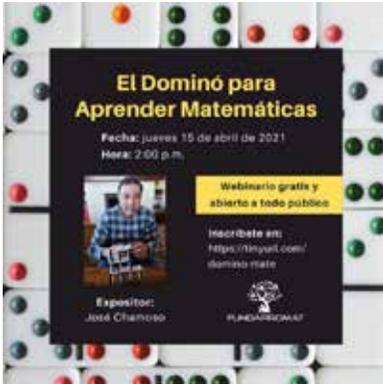
APRIL 2021

<p style="text-align: center; font-size: 2em; font-weight: bold;">1</p> <p>2:00 PM - 3:00 PM</p>		<h3>Webinar on Learn Geometry Programming with Scratch</h3> <p>The Webinar on Learn Geometry Programming with Scratch took place on Thursday, April 1st, 2021 from 2 pm until 3 pm, with Dr. David Salomon Gomez, National Representative of the Inter-american Committee on Math Education (CIAEM) in Mexico, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by explaining what Scratch, is, how to access it and how to save and share a project. Dr. David Salomon Gomez then described how teachers can use this tool to make their math classes more interactive and fun. The speaker also shared a simple geometric example programming with Scratch.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">2</p> <p>12:00 PM - 1:00 PM</p>		<h3>Webinar on the Secrets Behind Sports Statistics</h3> <p>The Webinar on the Secrets Behind Sports Statistics took place on Friday, April 2nd, 2021 from 12 pm until 1 pm, with Diego Pokorski, actuary and sports journalist from Argentina, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker shared several examples of data about tennis, soccer, basketball, football and other sports published on TV, radio, newspaper, social media and other communication media. Diego Pokorski then highlighted the importance of confirming the veracity of the sports data and of asking many questions, including who published the data and why.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">3</p> <p>10:00 AM - 11:30 AM</p>		<h3>Sixteenth Math Jamboree</h3> <p>The sixteenth Math Jamboree took place on Saturday, April 3rd, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this sixteenth Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Restless Coins» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Ramon Martinez for designing this activity for FUNDAPROMAT, inspired by the activity “Coin Flipping” created by Sydney Weaver.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">5</p> <p>7:00 PM - 7:30 PM</p>		<h3>Math Coffee with Julieta</h3> <p>The Math Coffee with Julieta took place on Monday, April 5th, 2021 from 7 pm until 7:30 pm. The special guest of our third Instagram Live was Julieta Parravicini, math teacher and FUNDAPROMAT volunteer.</p> <p>In this Math Coffee, Julieta Parravicini told us about her personal story with mathematics, about her favorite FUNDAPROMAT virtual event and about her experience as volunteer in the Math Jamborees organized by FUNDAPROMAT. You can watch the video by visiting our Instagram account: @fundapromat or by clicking here.</p> 

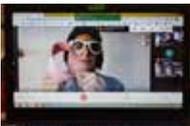
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<p>6</p> <p>4:00 PM - 5:00 PM</p>		<p>Thirty-Fifth Virtual Origami Class</p> <p>The thirty-fifth Virtual Origami Class took place on Tuesday, April 6th, 2021 from 4 pm until 5 pm, with the origami artist Deanna Kwan as our invited speaker. This virtual event was free and open to the general public.</p> <p>For this class, participants needed five sheets of 8.5 x 11 paper that we cut to form 5 squares. Deanna Kwan then taught how to fold a patch star, which is a model created by Jeff Beynon. This origami design is appropriate for 8-year-olds and above.</p>
<p>7</p> <p>5:00 PM - 6:00 PM</p>		<p>Third Math Webinar in English</p> <p>The third Math Webinar in English took place on Wednesday, April 7th, 2021 from 5 pm until 6 pm with Robert Vallin, Founder of the Special Interest Group of the Mathematical Association of America (MAA) on Recreational Mathematics (SIGMAA REC), as our invited speaker. This virtual event was free and open to the general public.</p> <p>In this third Math Webinar in English, Robert Vallin presented on “We Begin with a Deck of Cards...” The speaker began the virtual event by showing some numbers that are related to the cards, highlighting the number of ways we can order the 52 cards in a deck. Robert Vallin also made a prediction trick, showed the solution to the water and wine problem by using 8 red cards and 8 black cards, and described the rules of Bulgarian Solitaire and some variants. The speaker also showed several different ways of shuffling cards, performed a magic trick that is based on the Gilbreath principle, and explained how playing cards are related to permutations, graphs, partitions and other math concepts.</p>
<p>8</p> <p>2:00 PM - 3:30 PM</p>		<p>Webinar on Theatrical Improvisation and Mathematics</p> <p>The Webinar on Theatrical Improvisation and Mathematics took place on Thursday, April 8th, 2021 from 2 pm until 3:30 pm, with Pedro Morales-Almazan, Professor of Mathematics at the University of California, Santa Cruz, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by defining what improvisation is and what theatrical improvisation refers to. Pedro Morales-Almazan described that the characteristics of theatrical improvisation are that it is spontaneous, is without script, is in the moment and is unforeseen. The speaker highlighted that the abilities that are developed with theatrical improvisation include being present, collaborating, listening, accepting failure, observing and not judging, searching for what is relevant and focusing on the relation. Pedro Morales-Almazan also performed three improv games with participants from the audience and connected them to mathematics.</p>
<p>9</p> <p>12:00 PM - 1:00 PM</p>		<p>Twenty-First Virtual Encounter with Outstanding Mathematicians</p> <p>The twenty-first Virtual Encounter with Outstanding Mathematicians took place on Friday, April 9th, 2021 from 12 pm until 1 pm, as our invited speaker. Ursula Molter, Professor of Mathematics at the University of Buenos Aires in Argentina, was our invited speaker. This virtual event was free and open to the general public.</p> <p>On this twenty-first Encounter, Dr. Ursula Molter shared anecdotes of her personal life and her professional journey as a female mathematician. The speaker also presented on “Fractal Mosaics,” in which she explained what it means to tessellate or to tile. Dr. Ursula Molter then shared tessellations with equilateral triangles, squares, regular hexagons, irregular pentagons and other geometric figures. The speaker also highlighted the works of art of M.C. Escher and explained how we can create our own fractal mosaics.</p>

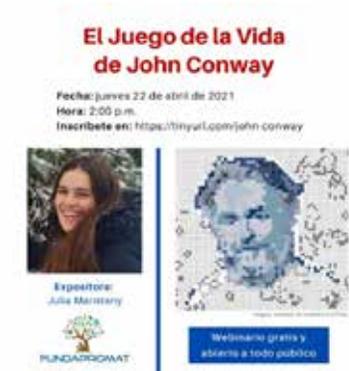
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<p style="text-align: center; font-size: 2em; font-weight: bold;">10</p> <p>10:00 AM - 11:30 AM</p>		<h3>Seventeenth Math Jamboree</h3> <p>The seventeenth Math Jamboree took place on Saturday, April 10th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this seventeenth Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Block Stackers» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Sydney Weaver for designing this activity for FUNDAPROMAT and Ramon Martinez and Julieta Parravicini for creating some of the variants.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">13</p> <p>4:00 PM - 5:00 PM</p>		<h3>Thirty-Sixth Virtual Origami Class</h3> <p>The thirty-sixth Virtual Origami Class took place on Tuesday, April 13th, 2021 from 4 pm until 5 pm, with the origami artist Jaciara Grzybowski as our invited speaker. This virtual event was free and open to the general public.</p> <p>For this class, participants needed eight paper squares of 10 cm x 10 cm and glue. Jaciara Grzybowski then taught how to fold a VEGANAT snowflake, which is a model created by the speaker herself. This origami design is appropriate for 8-year-olds and above.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">14</p> <p>12:00 PM - 1:00 PM</p>		<h3>Webinar on Discovering the Mathematics of Movies</h3> <p>The Webinar on Discovering the Mathematics of Movies took place on Wednesday, April 14th, 2021 from 12 pm until 1 pm, with David Pinyol, Professor of Mathematics at the Obert Institute of Cataluña and member of the Museum of Mathematics of Cataluña (MMACA), as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker presented fragments of several movies to reveal some tricks and amazing people related to mathematics. Some of the movies that David Pinyol mentioned include Hidden Figures, Shakuntala Devi, Fermat's Room, Super 30, Agora, Measuring the World, The Man Who Knew Infinity and A Beautiful Mind. The speaker also highlighted the winners of the Mental Calculation World Cup. This virtual event was co-organized with the Museum of Mathematics of Cataluña (MMACA).</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">15</p> <p>2:00 PM - 3:00 PM</p>		<h3>Webinar on Dominoes to Learn Mathematics</h3> <p>The Webinar on Dominoes to Learn Mathematics took place on Thursday, April 15th, 2021 from 2 pm until 3 pm, with Jose Chamoso, Professor of Didactics of Mathematics at the University of Salamanca in Spain, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by presenting the gaming pieces and the rules of the traditional game of dominoes. Jose Chamoso then shared many fun math activities that can be done using dominoes, including searching for patterns, memory, performing operations, bridges, magic squares, the induction principle, construction of geometric bodies and much more. The speaker also highlighted that these activities can be used in kinder, elementary school, high school and university levels and in teacher training.</p> 

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<p>16</p> <p>12:00 PM - 1:00 PM</p>		<h3>Webinar on A Logistic Challenge and the Mobius Band</h3> <p>The Webinar on A Logistic Challenge and the Mobius Band took place on Friday, April 16th, 2021 from 12 pm until 1 pm, with Raquel Villacampa, General Secretary of the Spanish Mathematical Royal Society (RSME), as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by defining geometry and topology in simple terms and explained the problem of the Konigsberg bridges. Raquel Villacampa then presented the 3 utilities problem, in which 3 houses need to receive water, electricity and gas but the pipelines cannot cross each other. The speaker showed how this problem does not have a solution in two dimensions and introduced the Mobius band, which is a geometric figure that has very interesting properties. Raquel Villacampa ended by describing how the 3 utilities problem does have a solution in the Mobius band. This virtual event was co-organized with the Spanish Mathematical Royal Society (RSME).</p> 
<p>17</p> <p>10:00 AM - 11:30 AM</p>		<h3>Eighteenth Math Jamboree</h3> <p>The eighteenth Math Jamboree took place on Saturday, April 17th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this eighteenth Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Turtles» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Sydney Weaver for designing this activity for FUNDAPROMAT and Julieta Parravicini for creating some of the variants.</p> 
<p>20</p> <p>7:00 PM - 9:00 PM</p>		<h3>Twelfth Virtual MathsJam in Panama</h3> <p>The twelfth Virtual MathsJam in Panama took place on Tuesday, April 20th, 2021 from 7 pm until 9 pm. The MathsJam is a monthly opportunity for math enthusiasts who are 18 years and older to share some quality time with like-minded individuals while solving math puzzles and intellectual challenges in a collaborative environment.</p> <p>This virtual event was free and only for adults. Dr. Jeanette Shakalli, Executive Director of FUNDAPROMAT, acted as the moderator. In this event, participants solved different math challenges using their creativity and imagination.</p> 
<p>21</p> <p>5:00 PM - 6:00 PM</p>		<h3>Magic Show with Isaac Reiter</h3> <p>The Magic Show with Isaac Reiter took place on Wednesday, April 21st, 2021 from 5 pm until 6 pm, with the magician Isaac Reiter as our invited speaker. This virtual event was free and open to the general public.</p> <p>In this virtual event, Isaac Reiter shared his passion for magic and for mathematics with the participants. Through interactive illusions, close up miracles and fascinating magic tricks with Rubik's cubes, playing cards, linking rings and more, the speaker amazed the audience with a spectacular show.</p> 

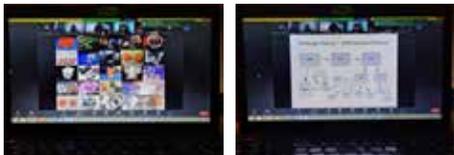
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<p style="font-size: 48pt; text-align: center;">22</p> <p style="text-align: center;">2:00 PM - 3:00 PM</p>		<h3>Webinar on John Conway's Game of Life</h3> <p>The Webinar on John Conway's Game of Life took place on Thursday, April 22nd, 2021 from 2 pm until 3 pm, with Julia Maristany from Argentina, PhD student in Biophysics at the University of Cambridge in England, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by sharing the story of the English mathematician John Conway and anecdotes of his personal and professional life. Julia Maristany then described the four rules of the Game of Life, which is a game invented by John Conway that has no players. The speaker showed several examples of static, oscillating and sliding patterns with different initial configurations of the game. Julia Maristany explained that this game is a universal computer, that is it is believed that we can simulate anything with the Game of Life. The speaker also highlighted that the cellular automata are used to describe patterns that appear in nature and to create technology.</p> 
<p style="font-size: 48pt; text-align: center;">23</p> <p style="text-align: center;">12:00 PM - 1:00 PM</p>		<h3>Webinar on Doing Mathemagic</h3> <p>The Webinar on Doing Mathemagic took place on Friday, April 23rd, 2021 from 12 pm until 1 pm, with Marcelo Toledo, Teacher at the National School of Monserrat – National University of Cordoba in Argentina, better known as Prof. Toleinstein, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by showing how we can make a hole in a sheet of paper through which a person can go through. Prof. Toleinstein then presented four magic tricks with playing cards: a trick with binary code, another trick related to water and oil, a third one that uses the Australian shuffle to find the thief, and the last trick to find the partner. The speaker also emphasized that with a bit of practice, we can all become mathemagicians.</p> 
<p style="font-size: 48pt; text-align: center;">24</p> <p style="text-align: center;">10:00 AM - 11:30 AM</p>		<h3>Nineteenth Math Jamboree</h3> <p>The nineteenth Math Jamboree took place on Saturday, April 24th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this nineteenth Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Jumping Crickets» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Gisela Diaz and Romina Busain for designing this activity for FUNDAPROMAT.</p> 
<p style="font-size: 48pt; text-align: center;">24</p> <p style="text-align: center;">2:00 PM - 3:00 PM</p>		<h3>Webinar on Mathemagic with Cards</h3> <p>The Webinar on Mathemagic with Cards took place on Saturday, April 24th, 2021 from 2 pm until 3 pm, with the mathemagician Sergio Fernandez from Colombia, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker performed 4 fascinating magic card tricks based on math concepts, surprising the audience. The mathemagician Sergio Fernandez then explained the mathematics behind some of the tricks that he performed, including the concept of parity and the inverted order of the playing cards. The speaker also recommended the blog of the mathemagician Sergio Belmonte to all those who are curious and want to learn how to do mathemagic. This virtual event was co-organized with the Explora Center of Sciences and Art.</p> 

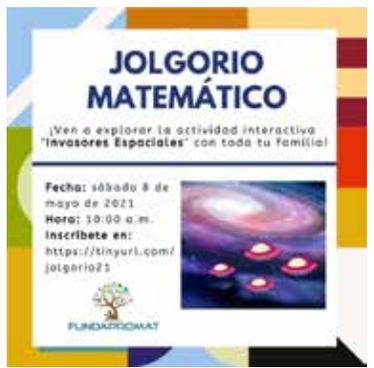
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<p style="font-size: 2em; font-weight: bold;">27</p> <p>4:00 PM - 5:00 PM</p>		<h3>Thirty-Seventh Virtual Origami Class</h3> <p>The thirty-seventh Virtual Origami Class took place on Tuesday, April 27th, 2021 from 4 pm until 5 pm, with the origami artist Matthew Green as our invited speaker. This virtual event was free and open to the general public.</p> <p>For this class, participants needed one sheet of 8.5 x 11 paper which they cut to form a square. Matthew Green then taught how to fold a heart, which is a model created by Hiroshi Kumazaka. This origami design is appropriate for 8-year-olds and above.</p> 
<p style="font-size: 2em; font-weight: bold;">29</p> <p>2:00 PM - 3:00 PM</p>		<h3>Webinar on Curious Games and Enigmas</h3> <p>The Webinar on Curious Games and Enigmas took place on Thursday, April 29th, 2021 from 2 pm until 3 pm, with Pablo Peralta, industrial engineer from Argentina specialized in data science, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker presented math challenges, as well as puzzles of sequences, of matches, of equalities, of lateral thinking, of operations, of magic squares and of cryptograms. The participants enjoyed solving these curious games and enigmas so much that we will be inviting Pablo Peralta again for another virtual event with more puzzles.</p> 
<p style="font-size: 2em; font-weight: bold;">30</p> <p>12:00 PM - 1:00 PM</p>		<h3>Webinar on Recreational Mathematics as a Teaching Tool</h3> <p>The Webinar on Recreational Mathematics as a Teaching Tool took place on Friday, April 30th, 2021 from 12 pm until 1 pm, as our invited speaker. Carmen Giraldo, founding member of the Museum of Mathematics of the Federal University of Minas Gerais (UFMG) in Brazil, This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by defining what we refer to as recreational mathematics. Dr. Carmen Giraldo then shared how games have been the source of many mathematical models, like for example the game of Hex, the kaleidocycle, the Rubik's Cube, flexagons and the Soma Cube. The speaker also described the Dragon's Spell, the puzzle "From the Square to Sam Lloyd's Cross" and Henry Perigal's dissection to prove the Pythagorean Theorem.</p> 

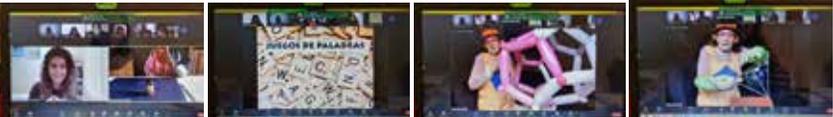
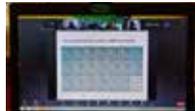
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<p>1 10:00 AM - 11:30 AM</p>		<p>Twentieth Math Jamboree</p> <p>The twentieth Math Jamboree took place on Saturday, May 1st, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this twentieth Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Tangram and the Chamber of Secrets» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Marleny Vargas and Marco Serrano for designing this activity for FUNDAPROMAT. You can watch the promotional video of Tangram in Spanish created by Glasswing International here. You can watch the promotional video of Tangram in Spanish created by Glasswing International here.</p> 
<p>3 7:00 PM - 7:30 PM</p>		<p>Math Coffee with Cristobal</p> <p>The Math Coffee with Cristobal took place on Monday, May 3rd, 2021 from 7 pm until 7:30 pm. The special guest of our fourth Instagram Live was Cristobal Quezada, math teacher and FUNDAPROMAT volunteer.</p> <p>In this Math Coffee, Cristobal Quezada told us about his personal story with mathematics, about his favorite FUNDAPROMAT virtual event and about his experience as volunteer in the Math Jamborees organized by FUNDAPROMAT. You can watch the video by visiting our Instagram account: @fundapromat or by clicking here.</p> 
<p>4 4:00 PM - 5:30 PM</p>		<p>Thirty-Eighth Virtual Origami Class</p> <p>The thirty-eighth Virtual Origami Class took place on Tuesday, May 4th, 2021 from 4 pm until 5:30 pm, with the origami artist Noelia Avila as our invited speaker. This virtual event was free and open to the general public.</p> <p>For this class, participants needed one paper square of dimensions 20 cm x 20 cm. Noelia Avila then taught how to fold a Star Wars spaceship, which is a model whose creator is unknown. This origami design is appropriate for 8-year-olds and above.</p> 
<p>5 5:00 PM - 6:00 PM</p>		<p>Fourth Math Webinar in English</p> <p>The fourth Math Webinar in English took place on Wednesday, May 5th, 2021 from 5 pm until 6pm with Laura Taalman, Professor of Mathematics at James Madison University, also known as “mathgrll,” as our invited speaker. This virtual event was free and open to the general public.</p> <p>In this fourth Math Webinar in English, Laura Taalman presented on “Exploring Mathematics with 3D Printing.” The speaker explained how 3D printing and design allow us to understand and explore complex mathematical objects. Laura Taalman showed magnificent examples of 3D-printed polyhedra, tessellations, fractals, knots and other geometric figures. The speaker also highlighted the importance of learning by failing and of sharing these experiences both in 3D design and in mathematical exploration.</p> 

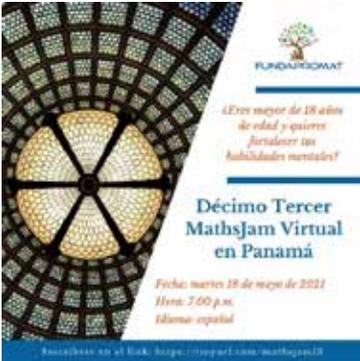
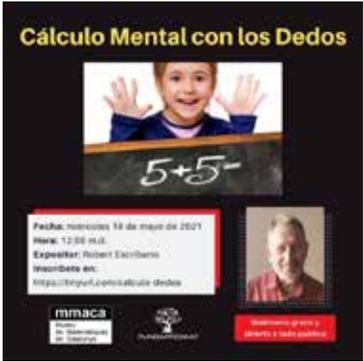
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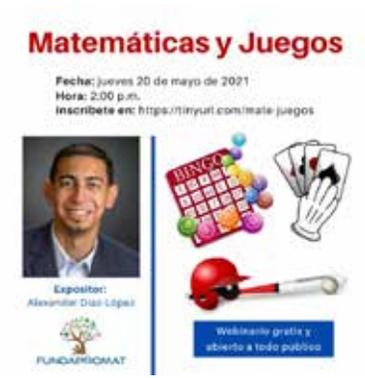
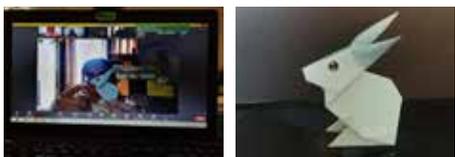
<p style="text-align: center; font-size: 2em; font-weight: bold;">6</p> <p style="text-align: center;">2:00 PM - 3:00 PM</p>		<h3>Webinar on Discovering the Magic of Mathematics</h3> <p>The Webinar on Discovering the Magic of Mathematics took place on Thursday, May 6th, 2021 from 2 pm until 3 pm, with the mathemagician Francisco Gonzalez, winner of the third prize of mentalism in the National Congress of Magic of Valencia in Spain, as our invited speaker. This virtual event was free and open to the general public.. This virtual event was free and open to the general public.</p> <p>The invited speaker performed four mathemagic tricks: one about emoticons based on the concept of parity, another about sticks with numbers that involve the rapid sum of numbers of several digits, the third about arithmetic progressions and the last one about colored envelopes. Francisco Gonzalez also recommended his book called "Mathemagic, Discover the Magic of Mathematics" for all those who are curious and want to explore more tricks.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">7</p> <p style="text-align: center;">12:00 PM - 1:00 PM</p>		<h3>Webinar on How to Win One Million Dollars Doing Origami?</h3> <p>The Webinar on How to Win One Million Dollars Doing Origami? took place on Friday, May 7th, 2021 from 12 pm until 1 pm, as our invited speaker. Julie Decaup, postdoc in mathematics in the Cuernavaca Unit of the Institute of Mathematics of the National Autonomous University of Mexico (UNAM), This virtual event was free and open to the general public.</p> <p>The invited speaker explained that the fold map of an origami is formed when we fold an origami design and open the paper square back again. Dr. Julie Decaup described what it means for an origami to be foldable or not and shared the basic criteria of foldable origamis. The speaker also presented how the P vs NP problem is related to origami, which is one of the millennium problems that whoever solves it will win one million dollars.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">8</p> <p style="text-align: center;">10:00 AM - 11:30 AM</p>		<h3>Twenty-First Math Jamboree</h3> <p>The twenty-first Math Jamboree took place on Saturday, May 8th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this twenty-first Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Space Invaders» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Camila Espinoza for designing this activity for FUNDAPROMAT, inspired by a presentation given by Ximena Colipan.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">11</p> <p style="text-align: center;">4:00 PM - 5:00 PM</p>		<h3>Thirty-Ninth Virtual Origami Class</h3> <p>The thirty-ninth Virtual Origami Class took place on Tuesday, May 11th, 2021 from 4 pm until 5 pm, with the origami artist David Medina as our invited speaker. This virtual event was free and open to the general public.</p> <p>For this class, participants needed two paper squares, one 15 cm x 15 cm and the second one 6 cm x 6 cm. David Medina then taught how to fold a fractal flower, which is a traditional origami model. This origami design is appropriate for 8-year-olds and above.</p> 

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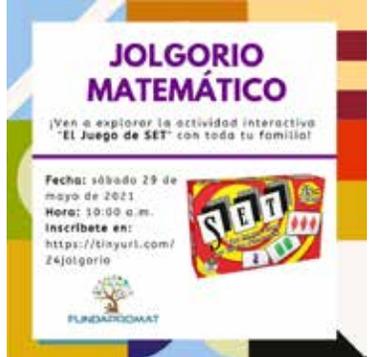
<p>12</p> <p>12:00 PM - 1:30 PM</p>		<h3>Celebration of the International Day for Women in Mathematics 2021</h3> <p>The Celebration of the International Day for Women in Mathematics 2021 took place on Wednesday, May 12th, 2021 from 12 pm until 1:30 pm with Carmen de Paz, Andrea Zablotzky and Caroline Ainslie as our invited speakers. Carmen de Paz performed mathemagic tricks with dice, Andrea Zablotzky shared fun word games and Caroline Ainslie connected math with soap bubbles and balloons. This virtual event was free and open to the general public.</p> <p>And why May 12th? Maryam Mirzakhani (1977-2017) became the first woman to receive the Fields Medal in 2014. The Fields Medal is the most prestigious award given by the international math community, equivalent to the Nobel Prize in Mathematics. On May 12th, her birthday, we celebrate the International Day for Women in Mathematics. This celebration began when on July 31st, 2018, the Women's Committee of the Iranian Mathematical Society presented to the participants of the World Meeting for Women in Mathematics a proposal to celebrate women in mathematics on May 12th, and the proposal was approved. May 12th, 2019 was the first official celebration of the International Day for Women in Mathematics. For more information on this celebration, visit the website: https://may12.womeninmaths.org.</p> 
<p>13</p> <p>2:00 PM - 3:00 PM</p>		<h3>Webinar on How to Battle a Zombie Invasion?</h3> <p>The Webinar on How to Battle a Zombie Invasion? took place on Thursday, May 13th, 2021 from 2 pm until 3 pm, with Constanza Sanchez, Professor of Mathematics at the University of Buenos Aires in Argentina, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by presenting the following scenario: suppose that at the beginning, there are 1000 humans and 20 zombies. After one year, suppose that there are 900 humans left and 120 zombies. Constanza Sanchez then created mathematical models according to different scenarios, taking into consideration different variables, such as the capacity of the humans to defend themselves against the zombies and the effectiveness of the zombies to infect the humans. The speaker also explained how these mathematical models are used to predict the spread of infectious diseases.</p> 
<p>14</p> <p>12:00 PM - 1:00 PM</p>		<h3>Twenty-Second Virtual Encounter with Outstanding Mathematicians</h3> <p>The twenty-second Virtual Encounter with Outstanding Mathematicians took place on Friday, May 14th, 2021 from 12 pm until 1 pm. as our invited speaker. Ana Romero, Professor at the University of La Rioja in Spain, was our invited speaker. This virtual event was free and open to the general public.</p> <p>On this twenty-second Encounter, Dr. Ana Romero shared anecdotes of her personal life and her professional journey as a female mathematician. The speaker also presented on "The Mathematics Behind the Animated Movies," in which she explained that geometric modeling consists of constructing and representing objects of three dimensions in a computer. The speaker also described other techniques like polygonal meshes, interpolation, approximation, constructive models, 3D reconstruction and photogrammetry. Dr. Ana Romero showed several examples like Woody from the Toy Story movie, Joy from the Inside Out movie and Yoda from the Star Wars movie.</p> 
<p>15</p> <p>10:00 AM - 11:30 AM</p>		<h3>Twenty-Second Math Jamboree</h3> <p>The twenty-second Math Jamboree took place on Saturday, May 15th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this twenty-second Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Which One Doesn't Belong?» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Dr. Jeanette Shakalli for designing this activity for FUNDAPROMAT, inspired by a presentation given by Dr Jennifer Quinn, President of the Mathematical Association of America (MAA).</p> 

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<p>18</p> <p>4:00 PM - 5:00 PM</p>		<h3>Origami Workshop with Explora Celebrating the International Day of Museums</h3> <p>The Origami Workshop with Explora Celebrating the International Day of Museums took place on Tuesday, May 18th, 2021 from 4 pm until 5 pm, with Raquel Tovar, FUNDAPROMAT volunteer from Mexico, as our invited speaker. This virtual event was free and open to the general public.</p> <p>For this workshop, participants needed one paper square of 15 cm x 15 cm. Raquel Tovar then taught how to fold a butterfly, which is an origami model created by Akira Yoshizawa. This origami design is appropriate for 8-year-olds and above. This virtual event was co-organized with the Explora Center of Sciences and Art.</p> 
<p>18</p> <p>7:00 PM - 9:00 PM</p>		<h3>Thirteenth Virtual MathsJam in Panama</h3> <p>The thirteenth Virtual MathsJam in Panama took place on Tuesday, May 18th, 2021 from 7 pm until 9 pm. The MathsJam is a monthly opportunity for math enthusiasts who are 18 years and older to share some quality time with like-minded individuals while solving math puzzles and intellectual challenges in a collaborative environment.</p> <p>This virtual event was free and only for adults. Dr. Jeanette Shakalli, Executive Director of FUNDAPROMAT, acted as the moderator. In this event, participants solved different math challenges using their creativity and imagination. The three winning challenges of the 2021 FUNDAPROMAT Challenges Competition were also presented.</p> 
<p>19</p> <p>12:00 PM - 1:00 PM</p>		<h3>Webinar on Mental Calculation with Your Fingers</h3> <p>The Webinar on Mental Calculation with Your Fingers took place on Wednesday, May 19th, 2021 from 12 pm until 1 pm, with Robert Escribano, member of the Museum of Mathematics of Cataluña (MMACA) and FUNDAPROMAT volunteer who manages our Twitter account, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker explained how to find the product of two numbers of the same half-decade (i.e. 6-10, 11-15, 16-20, 21-25, 26-30...) using only your fingers. Robert Escribano then applied this technique to calculate the square of numbers. The speaker also described why this algorithm works, both geometrically and algebraically. This virtual event was co-organized with the Museum of Mathematics of Cataluña (MMACA).</p> 
<p>19</p> <p>5:00 PM - 6:00 PM</p>		<h3>Webinar on Triangles, Games and DNA</h3> <p>The Webinar on Triangles, Games and DNA took place on Wednesday, May 19th, 2021 from 5 pm until 6 pm, with Dr. Alejandro Quintero, Professor of Mathematics at the National University of Mar del Plata (UNMDP) in Argentina, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker showed how the construction of a tunnel is related to right triangles, how musical notes are associated with proportions and how image processing is based on mathematics. Dr. Alejandro Quintero also shared Hamilton's game that involves a dodecahedron and connected the study of the genetic code of DNA with mathematics. This virtual event was co-organized with the Argentina Mathematical Union (UMA).</p> 

<p>20</p> <p>2:00 PM - 3:00 PM</p>	 <p>Matemáticas y Juegos</p> <p>Fecha: jueves 20 de mayo de 2021 Hora: 2:00 p.m. Inscríbete en: https://tinyurl.com/mate-juegos</p> <p>Expositor: Alexander Diaz-Lopez</p> <p>Webinario gratis y abierto a todo público</p>	<h3>Webinar on Mathematics and Games</h3> <p>The Webinar on Mathematics and Games took place on Thursday, May 20th, 2021 from 2 pm until 3 pm, with Dr. Alexander Diaz-Lopez, Professor of Mathematics at the University of Villanova in Pennsylvania, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by describing how many ways there are to shuffle a deck of 52 cards and analyzing how big this number is. Dr. Alexander Diaz-Lopez then shared what is the most efficient way to run the bases in baseball and what is more likely when playing BINGO: to win with a horizontal line or with a vertical line. The speaker also pointed out how many different sudokus there are and highlighted that there is a lot of mathematics in games, like dominoes, Monopoly and the game of SET.</p> 
<p>21</p> <p>12:00 PM - 1:00 PM</p>	 <p>Cocinado con Matemáticas</p> <p>Fecha: viernes 21 de mayo de 2021 Hora: 12:00 p.m. Expositor: Anabel Forte Inscríbete en: https://tinyurl.com/cocinando-mate</p> <p>Webinario gratis y abierto a todo público</p>	<h3>Webinar on Cooking with Mathematics</h3> <p>The Webinar on Cooking with Mathematics took place on Friday, May 21st, 2021 from 12 pm until 1 pm, with Anabel Forte, member of the Spanish Mathematical Royal Society (RSME), as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by explaining what an algorithm is by using a recipe to cook a mushroom risotto. Anabel Forte then mentioned several examples of the use of statistics in our daily lives, like in the prediction of the weather, in the management of fishing resources and in the evolution of a breast cancer patient. The speaker also highlighted the importance of graphs when presenting the news, such as data on the pandemic. This virtual event was co-organized with the Spanish Mathematical Royal Society (RSME).</p> 
<p>22</p> <p>10:00 AM - 11:30 AM</p>	 <p>JOLGORIO MATEMÁTICO</p> <p>¡Ven a explorar la actividad interactiva "Serpientes" con toda tu familia!</p> <p>Fecha: sábado 22 de mayo de 2021 Hora: 10:00 a.m. Inscríbete en: https://tinyurl.com/jolgorio23</p> <p>Webinario gratis y abierto a todo público</p>	<h3>Twenty-Third Math Jamboree</h3> <p>The twenty-third Math Jamboree took place on Saturday, May 22nd, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this twenty-third Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Snakes» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Gisela Diaz for designing this activity for FUNDAPROMAT.</p> 
<p>25</p> <p>4:00 PM - 5:00 PM</p>	 <p>CLASE DE ORIGAMI</p> <p>Fecha: martes 25 de mayo de 2021 Hora: 4:00 p.m. Idioma: español Materiales: un cuadrado de papel de 15 cm x 15 cm Inscríbete en el link: https://tinyurl.com/origami40</p> <p>Expositora: Karim Talavera</p> <p>Modelo: un conejo</p>	<h3>Fortieth Virtual Origami Class</h3> <p>The fortieth Virtual Origami Class took place on Tuesday, May 25th, 2021 from 4 pm until 5 pm, with the origami artist Karim Talavera as our invited speaker. This virtual event was free and open to the general public.</p> <p>For this class, participants needed one paper square of dimensions 15 cm x 15 cm. Karim Talavera then taught how to fold a rabbit, which is an origami model of unknown creator. This origami design is appropriate for 8-year-olds and above.</p> 

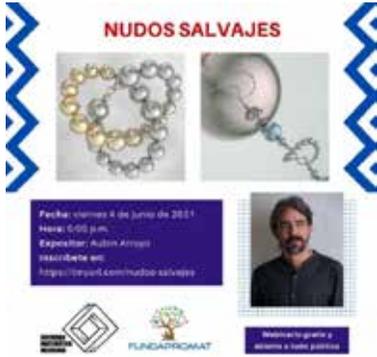
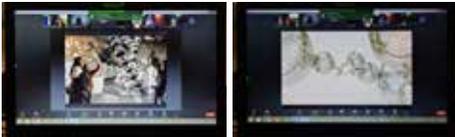
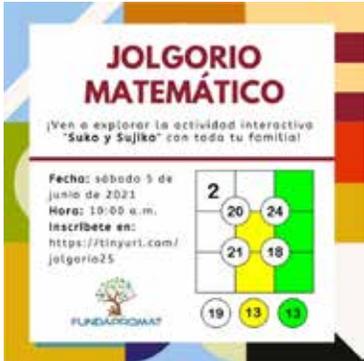
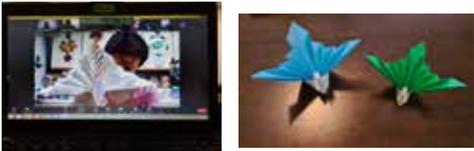
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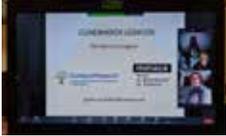
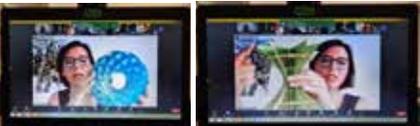
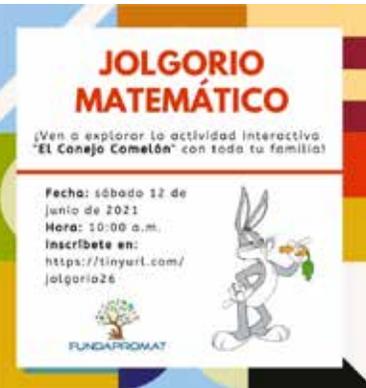
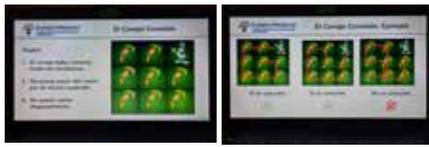
<p style="font-size: 2em; font-weight: bold;">27</p> <p>2:00 PM - 3:00 PM</p>	 <p>Juegos y Desafíos Matemáticos para Jugar en Familia</p> <p>Fecha: jueves 27 de mayo de 2021 Hora: 2:00 p.m. Expositora: Ximena Colipan Inscríbete en: https://tinyurl.com/juguefamilia</p> <p>Webinario gratis y abierto a todo público</p>	<h3>Webinar on Math Games and Challenges to Play with Your Family</h3> <p>The Webinar on Math Games and Challenges to Play with Your Family took place on Thursday, May 27th, 2021 from 2 pm until 3 pm, as our invited speaker. Ximena Colipan, Professor of Mathematics at the University of Talca in Chile, This virtual event was free and open to the general public.</p> <p>The invited speaker shared several games of strategy like the Game of Nim, Reversi and Lady on Cross. Dr. Ximena Colipan then presented several games using math notions for the little ones, like Number Salad, Sim and Stop! The speaker also highlighted Samuel Lloyd, Henry Dudeney, Charles Bouton, John Conway and Martin Gardner, specialists on recreational mathematics. This virtual event was co-organized with the Society of Mathematics of Chile (SOMACHI).</p> 
<p style="font-size: 2em; font-weight: bold;">28</p> <p>12:00 PM - 1:00 PM</p>	 <p>¿Existe Alguna Manera de Dividir Tesoros de Forma Justa y Evitando la Envidia?</p> <p>Fecha: viernes 28 de mayo de 2021 Hora: 12:00 m.d. Inscríbete en: https://tinyurl.com/dividir-tesoros</p> <p>Expositora: Deborah Oliveros</p> <p>Webinario gratis y abierto a todo público</p>	<h3>Webinar on Does There Exist a Way to Divide Treasures Fairly and Avoiding Envy?</h3> <p>The Webinar on Does There Exist a Way to Divide Treasures Fairly and Avoiding Envy? took place on Friday, May 28th, 2021 from 12 pm until 1 pm, as our invited speaker. Deborah Oliveros, Professor of Mathematics at the National Autonomous University of Mexico (UNAM), This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by defining what fair division is and how we can classify what we want to divide. Dr. Deborah Oliveros then showed a method on how to divide a cake between two people fairly and free of envy. The speaker also presented the Dubins-Spanier method of dividing a cake between 4 people fairly but not free of envy and the Selfridge-Conway method of dividing a cake between 3 people that is free of envy. Dr. Deborah Oliveros ended with an example on how to divide belongings (for example, a car, a house, a dog...) between 4 people.</p> 
<p style="font-size: 2em; font-weight: bold;">29</p> <p>10:00 AM - 11:30 AM</p>	 <p>JOLGORIO MATEMÁTICO</p> <p>¡Ven a explorar la actividad interactiva "El Juego de SET" con toda tu familia!</p> <p>Fecha: sábado 29 de mayo de 2021 Hora: 10:00 a.m. Inscríbete en: https://tinyurl.com/24jotgorio</p> <p>FUNDAPROMAT</p>	<h3>Twenty-Fourth Math Jamboree</h3> <p>The twenty-fourth Math Jamboree took place on Saturday, May 29th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this twenty-fourth Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «The Game of SET» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Dr. Jeanette Shakalli for designing this activity for FUNDAPROMAT, inspired by a presentation given by Dr Julia Plavnik.</p> 

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<p style="text-align: center; font-size: 2em; font-weight: bold;">1</p> <p style="text-align: center;">4:00 PM - 5:30 PM</p>	<p>CLASE DE ORIGAMI</p> <p>Fecha: martes 1 de junio de 2021 Hora: 4:00 p.m. Idioma: inglés Materias: un cuadrado de papel de 15 cm x 15 cm Inscribete en el link: https://tinyurl.com/origami1</p> <p>Modelo: estrella pentagonal, creado por Toshie Sawahara Expositor: Ricardo Hinojosa</p>	<h3>Forty-First Virtual Origami Class</h3> <p>The forty-first Virtual Origami Class took place on Tuesday, June 1st, 2021 from 4 pm until 5:30 pm, with the origami artist Ricardo Hinojosa as our invited speaker. This virtual event was free and open to the general public.</p> <p>For this class, participants needed one paper square of dimensions 15 cm x 15 cm and scissors to form a pentagon. Ricardo Hinojosa then taught how to fold a pentagonal star, which is an origami model created by Toshie Takahama. This origami design is appropriate for 8-year-olds and above.</p>
<p style="text-align: center; font-size: 2em; font-weight: bold;">2</p> <p style="text-align: center;">5:00 PM - 6:00 PM</p>	<p>HOW TO FOLD THINGS INTO THIRDS, AND THIRTY-THIRDS, AND THREE-HUNDRED-AND-THIRTY THIRDS!</p> <p>Join this Webinar that is free and open to the general public on Wednesday, June 2nd, 2021 at 5 pm Panama time, 8 pm EDT</p> <p>Invited speaker: James Tanton</p> <p>Registrarse en: https://tinyurl.com/math-english</p>	<h3>Fifth Math Webinar in English</h3> <p>The fifth Math Webinar in English took place on Wednesday, June 2nd, 2021 from 5 pm until 6 pm with James Tanton, Mathematician-at-Large of the A Mathematical Association of America (MAA) and co-Founder of The Global Math Project. This virtual event was free and open to the general public.</p> <p>In this fifth Math Webinar in English, James Tanton presented on “How to Fold Things into Thirds, and Thirty-Thirds, and Three-Hundred-and-Thirty Thirds!” The speaker started the virtual event with the International Math Salute. James Tanton presented a method to fold a tie into thirds and then explained how to fold the tie to get different fractions ($1/3$, $1/7$ and $19/37$). The speaker highlighted how special these numbers are. Through this experiment of tie folding, James Tanton reached Artin’s Conjecture, which is an unsolved math problem.</p>
<p style="text-align: center; font-size: 2em; font-weight: bold;">3</p> <p style="text-align: center;">2:00 PM - 3:00 PM</p>	<p>Juegos de la Feria de Matemáticas de Zacatecas</p> <p>Fecha: jueves 3 de junio de 2021 Hora: 2:00 p.m.</p> <p>Webinario gratis y abierto a todo público</p> <p>Expositora: Emma González</p> <p>inscribete en: https://tinyurl.com/juegos-zacatecas</p>	<h3>Webinar on Games of the Math Fair of Zacatecas</h3> <p>The Webinar on Games of the Math Fair of Zacatecas took place on Thursday, June 3rd, 2021 from 2 pm until 3 pm, with Emma Gonzalez, teacher of the E.S.L. Guadalupe School in Zacatecas, Mexico, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker presented 3 games that they play in the Math Fair: the Game of 31, Guess Numbers, that uses the binary system, and Connect 9 Dots, first with 3 straight lines and then with 4 lines. Emma Gonzalez also invited several kids to the virtual event, who shared their experience attending the Math Fair of Zacatecas.</p>
<p style="text-align: center; font-size: 2em; font-weight: bold;">4</p> <p style="text-align: center;">12:00 PM - 1:30 PM</p>	<p>Juguemos con Cartas</p> <p>Fecha: viernes 4 de junio de 2021 Hora: 12:00 m.d. Inscribete en: https://tinyurl.com/juguemos-cartas</p> <p>Expositor: Juli Garbulsky</p> <p>Webinario gratis y abierto a todo público</p>	<h3>Webinar on Let’s Play with Cards</h3> <p>The Webinar on Let’s Play with Cards took place on Friday, June 4th, 2021 from 12 pm until 1:30 pm, with Juli Garbulsky, student of Data Science at the University of Buenos Aires in Argentina, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker shared two fun card games: the Game of 15 in 3, which turned out to be equivalent to the popular game of Tic Tac Toe, and a game of cards ordered in a line, whose trick involves blue cards and red cards. Juli Garbulsky also explained the winning strategy of both card games that he presented.</p>

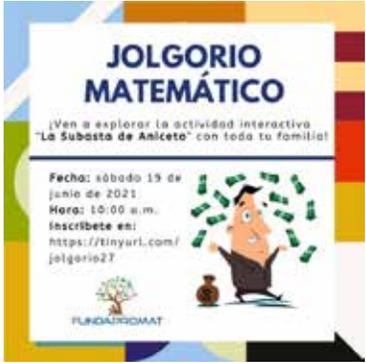
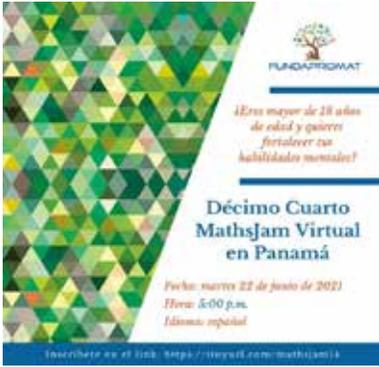
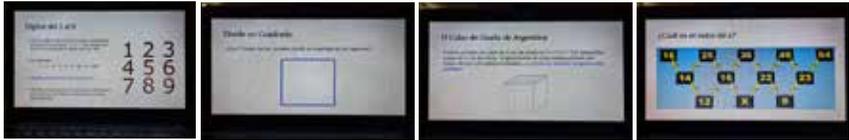
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<p style="text-align: center; font-size: 2em; font-weight: bold;">4</p> <p>5:00 PM - 6:00 PM</p>	 <p>NUDOS SALVAJES</p> <p>Fecha: viernes 4 de junio de 2021 Hora: 6:00 p.m. Expositor: Aubin Arroyo Inscríbete en: https://tinyurl.com/nudos-salvajes</p> <p>Webinars gratis y abiertos a todo público</p>	<h3>Webinar on Wild Knots</h3> <p>The Webinar on Wild Knots took place on Friday, June 4th, 2021 from 5 pm until 6 pm, with Aubin Arroyo, Researcher in the Cuernavaca Unit of the Institute of Mathematics of the National Autonomous University of Mexico (UNAM), as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker presented on knots and explained what the diagram of a knot is and how the same knot can have different diagrams. Aubin Arroyo then introduced the Reidemeister moves and the concept of the tricolorability of a knot, and defined wild knots. The speaker also mentioned that Knot Theory is the area of mathematics that studies and classifies knots and highlighted the incredible sculptures of wild knots by Jean-Michel Othoniel. This virtual event was co-organized with the Mexican Mathematical Society (SMM).</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">5</p> <p>10:00 AM - 11:30 AM</p>	 <p>JOLGORIO MATEMÁTICO</p> <p>¡Ven a explorar la actividad interactiva «Suko y Sujiko» con toda tu familia!</p> <p>Fecha: sábado 5 de junio de 2021 Hora: 10:00 a.m. Inscríbete en: https://tinyurl.com/jolgorio25</p>	<h3>Twenty-Fifth Math Jamboree</h3> <p>The twenty-fifth Math Jamboree took place on Saturday, June 5th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this twenty-fifth Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Suko and Sujiko» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Julieta Parravicini for designing this activity for FUNDAPROMAT and Jai Gomer from Kobayaashi Studios for the challenges.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">7</p> <p>7:00 PM - 7:30 PM</p>	 <p>CAFÉ MATEMÁTICO Con María Cristina</p> <p>Fecha: lunes 7 de junio de 2021 Hora: 7:00 p.m.</p> <p>Invitada especial: María Cristina Monachelli, docente Matemática y voluntaria de FUNDAPROMAT</p> <p>@fundapromat</p>	<h3>Math Coffee with Maria Cristina</h3> <p>The Math Coffee with Maria Cristina took place on Monday, June 7th, 2021 from 7 pm until 7:30 pm. The special guest of our fifth Instagram Live was Maria Cristina Monachelli, math teacher and FUNDAPROMAT volunteer.</p> <p>In this Math Coffee, Maria Cristina Monachelli told us about her personal story with mathematics, about her favorite FUNDAPROMAT virtual event and about her experience as volunteer in the Math Jamborees organized by FUNDAPROMAT. You can watch the video by visiting our Instagram account: @fundapromat or by clicking here.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">8</p> <p>4:00 PM - 5:00 PM</p>	 <p>CLASE DE ORIGAMI</p> <p>Fecha: martes 8 de junio de 2021 Hora: 4:00 p.m. Idioma: inglés Materiales: hojas 8.5 x 11, lápiz, marcadores y tijeras Inscríbete en el link: https://tinyurl.com/origami42</p> <p>Modelo: pavo real, creado por Steve y Megumi Biddle</p> <p>Expositora: Deanna Kwan</p>	<h3>Forty-Second Virtual Origami Class</h3> <p>The forty-second Virtual Origami Class took place on Tuesday, June 8th, 2021 from 4 pm until 5 pm, with the origami artist Deanna Kwan as our invited speaker. This virtual event was free and open to the general public.</p> <p>For this class, participants needed one sheet of 8.5 x 11 paper that we cut to form a square. Deanna Kwan then taught how to decorate the square paper with markers of different colors and how to fold a peacock, which is an origami model created by Steve and Megumi Biddle. This origami design is appropriate for 8-year-olds and above.</p> 

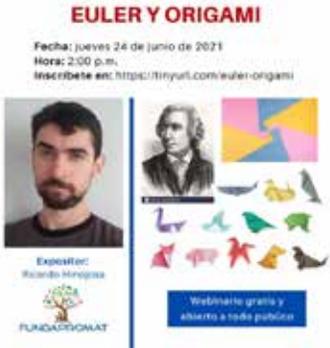
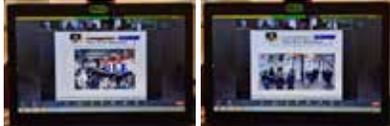
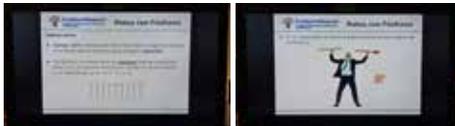
<p style="text-align: center; font-size: 2em;">9</p> <p>12:00 PM - 1:00 PM</p>		<h3>Webinar on Playful Squares</h3> <p>The Webinar on Playful Squares took place on Wednesday, June 9th, 2021 from 12 pm until 1 pm, with Guido Ramellini, advisor to the Museum of Mathematics of Cataluña (MMACA), as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by presenting on Latin squares and Greco-Latin squares. Guido Ramellini then described the magic squares and the tragic squares, which are those in which the same value of the sums of the rows, columns and diagonals is not repeated. The speaker also explained the Game of Skyscrapers and invited all the participants to play. This virtual event was co-organized with the Museum of Mathematics of Cataluña (MMACA).</p> 
<p style="text-align: center; font-size: 2em;">10</p> <p>2:00 PM - 3:00 PM</p>		<h3>Webinar on Curves of Persecution: Catch Me If You Can!</h3> <p>The Webinar on Curves of Persecution: Catch Me If You Can! took place on Thursday, June 10th, 2021 from 2 pm until 3 pm, with Dr. Hector Chaparro, teacher in the Department of Mathematics at the Nueva Granada Military University in Colombia, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by defining what curves of persecution are and where we can find them. Dr. Hector Chaparro then presented the problem of the pirate ship and the merchant vessel and the problem of the four insects. The speaker also shared the applications of these problems in other disciplines.</p> 
<p style="text-align: center; font-size: 2em;">11</p> <p>12:00 PM - 1:00 PM</p>		<h3>Twenty-Third Virtual Encounter with Outstanding Mathematicians</h3> <p>The twenty-third Virtual Encounter with Outstanding Mathematicians took place on Friday, June 11th, 2021 from 12 pm until 1 pm with Dr. Maria Garcia Monera, Professor of Mathematics at the University of Valencia in Spain, as our invited speaker.</p> <p>On this twenty-third Encounter, Dr. Maria Garcia Monera shared anecdotes of her personal life and her professional journey as a female mathematician. The speaker also presented on "If You Imagine It, You Can Do It: Art and Geometry in 3D," in which she explained that the idea of building models of surfaces using cardboard is quite ancient. The speaker mentioned that the mathematician Felix Klein (1849-1925) used real models of surfaces made with cardboard to help his students visualize geometric properties. Dr. Maria Garcia Monera encouraged all the participants to visit the website https://www.uv.es/monera2 and build their own models.</p> 
<p style="text-align: center; font-size: 2em;">12</p> <p>10:00 AM - 11:30 AM</p>		<h3>Twenty-Sixth Math Jamboree</h3> <p>The twenty-sixth Math Jamboree took place on Saturday, June 12th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this twenty-sixth Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «The Greedy Rabbit» e in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Marleny Vargas for designing this activity for FUNDAPROMAT.</p> 

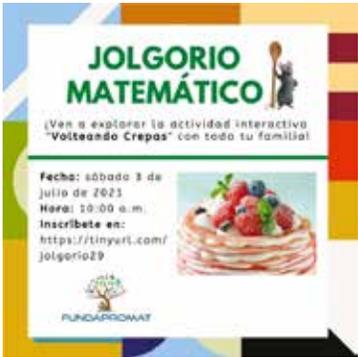
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<p>15</p> <p>4:00 PM - 5:00 PM</p>		<h3>Forty-Third Virtual Origami Class</h3> <p>he forty-third Virtual Origami Class took place on Tuesday, June 15th, 2021 from 4 pm until 5 pm, with the origami artist Jaciara Grzybowski as our invited speaker. This virtual event was free and open to the general public.</p> <p>For this class, participants needed eight paper squares of 10 cm x 10 cm and glue. Jaciara Grzybowski then taught how to fold a BELLAROSA snowflake, which is a model created by the speaker herself. This origami design is appropriate for 8-year-olds and above.</p>
<p>16</p> <p>12:00 PM - 1:00 PM</p>		<h3>Second Magic Show with Isaac Reiter</h3> <p>The Second Magic Show with Isaac Reiter took place on Wednesday, June 16th, 2021 from 12 pm until 1 pm, with the magician Isaac Reiter as our invited speaker. This virtual event was free and open to the general public.</p> <p>In this virtual event, Isaac Reiter shared his passion for magic and for mathematics with the participants. Through interactive illusions, close up miracles and fascinating magic tricks with Rubik's cubes, playing cards, rubber bands and more, the speaker amazed the audience with a spectacular show.</p>
<p>16</p> <p>5:00 PM - 5:30 PM</p>		<h3>Hidden Figures with Iveth Martinez</h3> <p>Hidden Figures with Iveth Martinez took place on Wednesday, June 16th, 2021 from 5 pm until 5:30 pm. The special guest of our first Facebook Live was Iveth Martinez, Panamanian math teacher.</p> <p>In this Facebook Live, Iveth Martinez told us about her personal story with mathematics, about her experience as a Panamanian female mathematician and about her favorite memory of a Math Carnival. You can watch the video by visiting our Facebook account: @fundapromat or by clicking here.</p>
<p>17</p> <p>2:00 PM - 3:00 PM</p>		<h3>Webinar on Mathematics and Fashion</h3> <p>The Webinar on Mathematics and Fashion took place on Thursday, June 17th, 2021 from 2 pm until 3 pm, with Cristina Sardon, Professor at the Polytechnic University of Madrid in Spain, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker described how mathematics is used in the making of dresses, stating Coco Chanel's quote: "Fashion is like architecture, it is a matter of proportions." Cristina Sardon then explained how mathematics is used in the runway and highlighted the clothing prints based on tessellations and on fractals. The speaker also shared many images of designers with examples of the use of mathematics in fashion. You can find the complete article in Spanish that Cristina Sardon wrote on this topic here.</p>

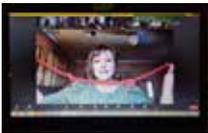
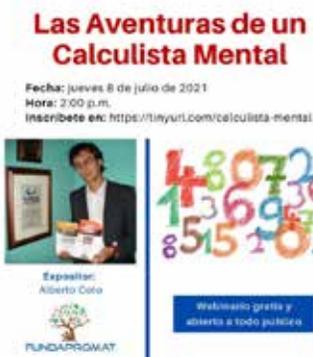
<p style="text-align: center; font-size: 2em; font-weight: bold;">18</p> <p>12:00 PM - 1:30 PM</p>		<h3>Webinar on The Mathematical Universe of The Alhambra</h3> <p>The Webinar on The Mathematical Universe of The Alhambra took place on Friday, June 18th, 2021 from 12 pm until 1:30 pm, with Alvaro Martinez Sevilla, Researcher at the University of Granada in Spain and member of the Spanish Mathematical Royal Society (RSME), as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker presented on the mathematical concepts that can be found in The Alhambra of Granada, which is probably the best known monument of islamic art. Among them, Alvaro Martinez Sevilla highlighted examples of symmetry (in the architecture), proportion (in the doors), hierarchy (order in the domes), cyclicity (math knots in the facade) and infinitude (tessellations in the mosaics). This virtual event was co-organized with the Spanish Mathematical Royal Society (RSME).</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">19</p> <p>10:00 AM - 11:30 AM</p>		<h3>Twenty-Seventh Math Jamboree</h3> <p>The twenty-seventh Math Jamboree took place on Saturday, June 19th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this twenty-seventh Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Aniceto's Auction» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Ramon Martinez and Julieta Parravicini for designing this activity for FUNDAPROMAT.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">22</p> <p>5:00 PM - 7:00 PM</p>		<h3>Fourteenth Virtual MathsJam in Panama</h3> <p>The fourteenth Virtual MathsJam in Panama took place on Tuesday, June 22nd, 2021 from 5 pm until 7 pm. The MathsJam is a monthly opportunity for math enthusiasts who are 18 years and older to share some quality time with like-minded individuals while solving math puzzles and intellectual challenges in a collaborative environment.</p> <p>This virtual event was free and only for adults. Dr. Jeanette Shakalli, Executive Director of FUNDAPROMAT, acted as the moderator. In this event, participants solved different math challenges using their creativity and imagination.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">23</p> <p>5:00 PM - 7:00 PM</p>		<h3>Celebrate Mathematics with FUNDAPROMAT in the National Congress of Science and Technology of Panama 2021</h3> <p>The special event “Celebrate Mathematics with FUNDAPROMAT in the National Congress of Science and Technology of Panama 2021” took place on Wednesday, June 23rd, 2021 from 5 pm until 7 pm, with Andres Rieznik, Clara Grima and Tiago Hirth, as our invited speakers. This virtual event was free and open to the general public.</p> <p>The math communicator Clara Grima from Spain talked about her fun blog for kids “Mati and her Math Adventures” and how this wonderful project was born. Those who are interested can visit the blog here. Then the mathematician Tiago Hirth from Portugal performed several fascinating mathemagic tricks with playing cards, rubber bands, ropes and more, which amazed both kids and adults alike. Finally, the mathematician Andres Rieznik from Argentina presented a fragment of his incredible show of mathe-magic humor, in which he squared numbers of up to 4 digits faster than a calculator, indicated the day of the week a person was born by only knowing their date of birth and created a magic square in seconds.</p> 

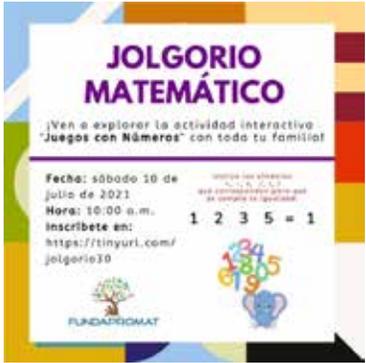
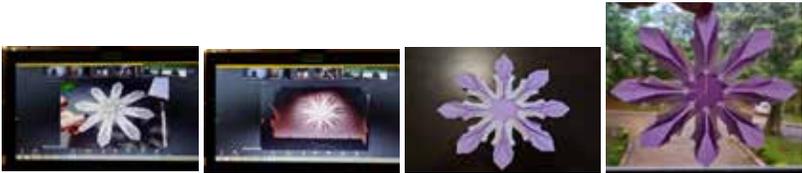
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<p>24</p> <p>2:00 PM - 3:00 PM</p>	 <p>EULER Y ORIGAMI</p> <p>Fecha: jueves 24 de junio de 2021 Hora: 2:00 p.m. Inscríbete en: https://tinyurl.com/euler-origami</p> <p>Expositor: Ricardo Hinojosa</p> <p>Webinario gratis y abierto a todo público</p>	<p>Webinar on Euler and Origami</p> <p>The Webinar on Euler and Origami took place on Thursday, June 24th, 2021 from 2 pm until 3 pm, with the origami artist Ricardo Hinojosa as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by defining what modular origami is and explained that there are 3 different types of modular origami for polyhedra: those in which the modules represent the faces of the polyhedra, those in which the modules represent the edges and those in which the modules represent the vertices. Ricardo Hinojosa then described Euler's formula, which states that the number of faces - the number of edges + the number of vertices = 2, and indicated how this formula can help us calculate how many modules we will need to fold a modular origami.</p> 
<p>25</p> <p>12:00 PM - 1:00 PM</p>	 <p>Paseo de las Matemáticas</p> <p>Fecha: viernes 25 de junio de 2021 Hora: 12:00 m.d. Inscríbete en: https://tinyurl.com/paseo-mate</p> <p>Expositor: Roberto Vignolo</p> <p>Webinario gratis y abierto a todo público</p>	<p>Webinar on Math Walk</p> <p>The Webinar on Math Walk took place on Friday, June 25th, 2021 from 12 pm until 1 pm, with Roberto Vignolo, Professor at the National Technological University (UTN) in Argentina, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker shared the story of how the Math Walk was born, which is a permanent space, with free, self-guided and open access, that is found inside the Santa Fe Regional Faculty of the National Technological University (UTN) in Argentina. Roberto Vignolo described several of the interactive and dynamic mockups that can be found in this space, whose purpose is to show math in a didactic and motivating way through appealing toys created by the speaker himself.</p> 
<p>26</p> <p>10:00 AM - 11:30 AM</p>	 <p>JOLGORIO MATEMÁTICO</p> <p>¡Ven a explorar la actividad interactiva "Retos con Fósforos" con toda tu familia!</p> <p>Fecha: sábado 26 de junio de 2021 Hora: 10:00 a.m. Inscríbete en: https://tinyurl.com/jolgorio28</p> <p>Mueve un fósforo para que se complete la siguiente igualdad: $2 + 7 = 6$</p> <p>Expositor: Pablo Peralta</p> <p>Webinario gratis y abierto a todo público</p>	<p>Twenty-Eighth Math Jamboree</p> <p>The twenty-eighth Math Jamboree took place on Saturday, June 26th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this twenty-eighth Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called « Matchstick Puzzles » in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Pablo Peralta for designing this activity for FUNDAPROMAT.</p> 
<p>29</p> <p>4:00 PM - 5:00 PM</p>	 <p>CLASE DE ORIGAMI</p> <p>Fecha: martes 29 de junio de 2021 Hora: 4:00 p.m. Idioma: español</p> <p>Materiales: un rectángulo de 13,2 cm x 19,5 cm con el arte que enviaremos para imprimirlo Inscríbete en el link: https://tinyurl.com/origami44</p> <p>Expositor: David Medina</p> <p>Webinario gratis y abierto a todo público</p>	<p>Forty-Fourth Virtual Origami Class</p> <p>The forty-fourth Virtual Origami Class took place on Tuesday, June 29th, 2021 from 4 pm until 5 pm, with the origami artist David Medina as our invited speaker. This virtual event was free and open to the general public.</p> <p>For this class, participants needed a paper rectangle with a special art that was sent by email to print and cut before class. David Medina then taught how to fold a FUNDAPROMAT polo. This origami design is appropriate for 8-year-olds and above.</p> 

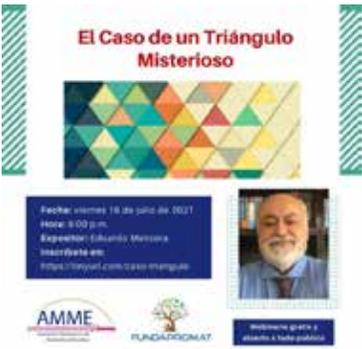
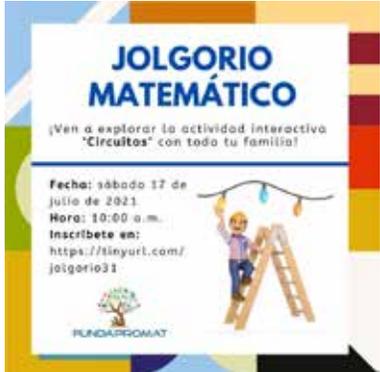
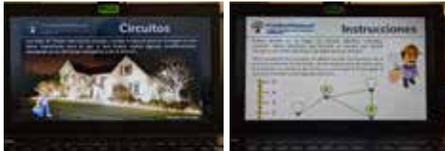
<p style="text-align: center; font-size: 2em; font-weight: bold;">1</p> <p style="text-align: center;">2:00 PM - 3:30 PM</p>		<h3>Webinar on Diagnostics and Practical Interventions for Dyscalculia</h3> <p>The Webinar on Diagnostics and Practical Interventions for Dyscalculia took place on Thursday, July 1st, 2021 from 2 pm until 3:30 pm, as our invited speaker. with Dr. Silvia Renata, Director of Neuro-Educa. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by explaining that dyscalculia is a disability resulting in difficulty learning mathematics that has a biological origin. Dr. Silvia Renata clarified that the specialists that diagnose and treat dyscalculia are psychopedagogues, educational psychologists or neuro-psychologists. The speaker also indicated that having dyscalculia results in emotional consequences and in mathematical anxiety that must be treated. Dr. Silvia Renata mentioned that once dyscalculia is diagnosed, the specialist designs a plan of intervention depending on the profile of the person, which includes the use of stimulation activities in the development of mathematical skills.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">2</p> <p style="text-align: center;">12:00 PM - 1:30 PM</p>		<h3>Webinar on Music and Symmetry</h3> <p>The Webinar on Music and Symmetry took place on Friday, July 2nd, 2021 from 12 pm until 1:30 pm, as our invited speaker. with Dr. Carlota Simoes, Professor at the University of Coimbra in Portugal and member of the Board of Directors of the International Day of Mathematics (IDM). This virtual event was free and open to the general public.</p> <p>The invited speaker presented on the connections between music and mathematics, in particular on musical symmetries. Dr. Carlota Simoes shared several examples of musical compositions of Bach, Mozart, among other great composers. The speaker also showed examples of musical compositions in movies like Toy Story, Star Wars, Lion King, West Side Story and many more.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">2</p> <p style="text-align: center;">5:00 PM - 6:00 PM</p>		<h3>Webinar on Infinity, Fractals and Turtles</h3> <p>The Webinar on Infinity, Fractals and Turtles took place on Friday, July 2nd, 2021 from 5 pm until 6 pm, with Marco Antonio Figueroa, member of the Matemorfosis outreach group of the Math Research Center (CIMAT) in Guanajuato, Mexico, and member of the organizing committee of the Mexican Math Olympics, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by explaining what infinity is. Marco Antonio Figueroa then described what fractals are and mentioned several examples of fractals, like the Sierpinski fractals. The speaker also presented a paradox with infinity, Hilbert's infinite hotel and Zeno's paradox on the race between Achilles and the tortoise. This virtual event was co-organized with the Mexican Mathematical Society (SMM).</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">3</p> <p style="text-align: center;">10:00 AM - 11:30 AM</p>		<h3>Twenty-Ninth Math Jamboree</h3> <p>The twenty-ninth Math Jamboree took place on Saturday, July 3rd, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this twenty-ninth Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Flipping Crepes» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Sergio Mendoza for designing this activity for FUNDAPROMAT.</p> 

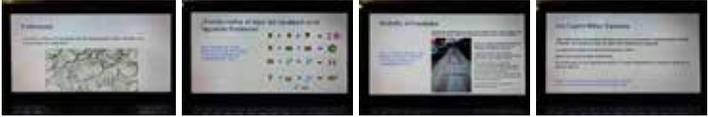
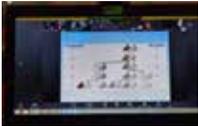
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<p style="text-align: center; font-size: 2em; font-weight: bold;">5</p> <p>7:00 PM - 7:30 PM</p>		<p>Math Coffee with Marco</p> <p>The Math Coffee with Marco took place on Monday, July 5th, 2021 from 7 pm until 7:30 pm. The special guest of our sixth Instagram Live was Marco Serrano, math teacher and FUNDAPROMAT volunteer.</p> <p>In this Math Coffee, Marco Serrano told us about his personal story with mathematics, about his favorite FUNDAPROMAT virtual event and about his experience as volunteer in the Math Jamborees organized by FUNDAPROMAT. You can watch the video by visiting our Instagram account: @fundapromat or by clicking here.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">6</p> <p>4:00 PM - 5:30 PM</p>		<p>Forty-Fifth Virtual Origami Class</p> <p>The forty-fifth Virtual Origami Class took place on Tuesday, July 6th, 2021 from 4 pm until 5:30 pm, with the origami artist Noelia Avila as our invited speaker. This virtual event was free and open to the general public.</p> <p>For this class, participants needed one 15 cm x 15 cm paper square. Noelia Avila then taught how to fold a square envelope, which is an origami model created by Tomoko Fuse. This origami design is appropriate for 8-year-olds and above.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">7</p> <p>5:00 PM - 6:00 PM</p>		<p>Sixth Math Webinar in English</p> <p>The sixth Math Webinar in English took place on Wednesday, July 7th, 2021 from 5 pm until 6 pm with Allison Henrich, Professor of Mathematics at Seattle University, as our invited speaker. This virtual event was free and open to the general public.</p> <p>In this sixth Math Webinar in English, Allison Henrich presented on “How to Not Tie a Knot.” The speaker started the virtual event by defining what a knot is. Allison Henrich then showed several examples of amazing magic rope tricks and explained how they work. The speaker described Reidemeister moves and the tricolorability of a knot diagram, and also performed a magic rope trick that is a proof of a math result.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">8</p> <p>2:00 PM - 3:30 PM</p>		<p>Webinar on The Adventures of a Mental Calculator</p> <p>The Webinar on The Adventures of a Mental Calculator took place on Thursday, July 8th, 2021 from 2 pm until 3:30 pm, with Alberto Coto, who set a Guinness Record 14 times and has 7 titles of World Champion in Mental Calculation, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker told us that he learned how to calculate by playing card games and that the numbers became his allies. Alberto Coto highlighted the importance of mental gymnastics, of believing in yourself, of concentration and of motivation. The speaker emphasized that a mental calculator is not born, it is made, and that consistency is the key to success. Alberto Coto also showed several games that can be found on his website https://www.albertocoto.com that can be used for training in mental calculation.</p> 

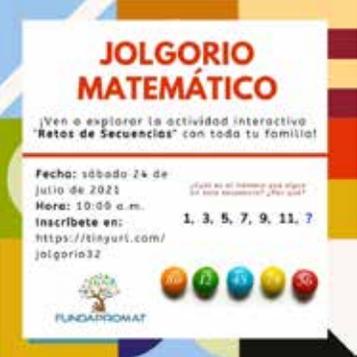
<p style="text-align: center; font-size: 2em; font-weight: bold;">9</p> <p style="text-align: center;">12:00 PM - 1:00 PM</p>		<h3>Twenty-Fourth Virtual Encounter with Outstanding Mathematicians</h3> <p>The twenty-fourth Virtual Encounter with Outstanding Mathematicians took place on Friday, July 9th, 2021 from 12 pm until 1 pm, as our invited speaker, Adriana Sanchez, Professor and Researcher at the University of Costa Rica. This virtual event was free and open to the general public.</p> <p>On this twenty-fourth Encounter, Dr. Adriana Sanchez shared anecdotes of her personal life and her professional journey as a female mathematician, in which she highlighted that studying mathematics gave her the opportunity to travel to many different countries like France, Croatia and even India. The speaker also presented on "Fractals in Nature," in which she shared examples of fractals in food, in leaves, in flowers, in animals, in trees, in lightning, in rivers, in mountains, in our bronchi, in our neurons and in our veins. Dr. Adriana Sanchez then described the Julia Set, the Mandelbrot Set, the Sierpinski Triangle, the Sierpinski Carpet and the Koch Snowflake. The speaker also showed several applications of fractals, such as in landscape modeling, in telecommunications and in fashion.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">10</p> <p style="text-align: center;">10:00 AM - 11:30 AM</p>		<h3>Thirtieth Math Jamboree</h3> <p>The thirtieth Math Jamboree took place on Saturday, July 10th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this thirtieth Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Number Games» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Pablo Peralta for designing this activity for FUNDAPROMAT.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">13</p> <p style="text-align: center;">4:00 PM - 5:30 PM</p>		<h3>Forty-Sixth Virtual Origami Class</h3> <p>The forty-sixth Virtual Origami Class took place on Tuesday, July 13th, 2021 from 4 pm until 5:30 pm, with the origami artist Jaciara Grzybowski as our invited speaker. This virtual event was free and open to the general public.</p> <p>For this class, participants needed eight paper squares of 10 cm x 10 cm and glue. Jaciara Grzybowski then taught how to fold a BOOM snowflake, which is a model created by the speaker herself. This origami design is appropriate for 8-year-olds and above.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">14</p> <p style="text-align: center;">12:00 PM - 1:30 PM</p>		<h3>Webinar on A Walk Through Cryptography</h3> <p>The Webinar on A Walk Through Cryptography took place on Wednesday, July 14th, 2021 from 12 pm until 1:30 pm, with Pura Fornals, President of the Museum of Mathematics of Cataluña (MMACA), as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker explained that cryptography is an area of mathematics that deals with encrypting (hiding) and decrypting messages. Pura Fornals showed several examples of how to hide the message inside a text, twist the message, invent alphabets and disorder the message with a key word. The speaker also described the Spartan scytale, the Caesar cipher, the rotating circles, the substitution encryption, the symbol cipher and the enigma machine. This virtual event was co-organized with the Museum of Mathematics of Cataluña (MMACA).</p> 

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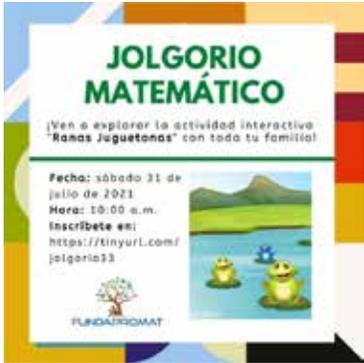
<p>14</p> <p>5:00 PM - 6:30 PM</p>	 <p>¡Polinomios en Todos Lados!</p> <p>Fecha: miércoles 14 de julio de 2021 Hora: 5:00 p.m. Expositor: Santiago Laplagne Inscríbete en: https://tinyurl.com/guqzomv3w4s</p> <p>Webinar gratis y abierto a todo público</p>	<p>Webinar on Polynomials Everywhere!</p> <p>The Webinar on Polynomials Everywhere! took place on Wednesday, July 14th, 2021 from 5 pm until 6:30 pm, with Santiago Laplagne, Coordinator of the Visibility Commission of the Argentina Mathematical Union (UMA), as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker showed several examples of polynomials using the interactive program Surfer, which can be accessed in the website http://moebius.dm.uba.ar. Santiago Laplagne emphasized that we can find polynomials everywhere, for example in the Eiffel Tower and in bridges. The speaker also presented several applications of parallel robots, such as in flight simulators, in antennas and in surgical operations. This virtual event was co-organized with the Argentina Mathematical Union (UMA).</p> 
<p>15</p> <p>2:00 PM - 3:00 PM</p>	 <p>Las Matemáticas en los Balones Deportivos</p> <p>Fecha: jueves 15 de julio de 2021 Hora: 2:00 p.m. Inscríbete en: https://tinyurl.com/balones-deportivos</p> <p>Expositor: Andrés Navas</p> <p>Webinar gratis y abierto a todo público</p>	<p>Webinar on The Mathematics in Sports Balls</p> <p>The Webinar on The Mathematics in Sports Balls took place on Thursday, July 15th, 2021 from 2 pm until 3 pm, with Dr. Andres Navas, Professor in the Math and Computer Science Department of the University of Santiago, Chile, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker explained the mathematics in the balls used in soccer, volleyball, basketball and other sports. Dr. Andres Navas showed that the soccer ball is a truncated icosahedron or a dodecahedron and highlighted that the icosahedron and the dodecahedron are dual polyhedra. The speaker presented several examples of images of sports balls that violate the geometric laws. Dr. Andres Navas also used Euler's formula ($\text{vertices} - \text{edges} + \text{faces} = 2$) to demonstrate why a ball of hexagonal faces does not exist.</p> 
<p>16</p> <p>5:00 PM - 6:00 PM</p>	 <p>El Caso de un Triángulo Misterioso</p> <p>Fecha: viernes 16 de julio de 2021 Hora: 5:00 p.m. Expositor: Eduardo Mancera Inscríbete en: https://tinyurl.com/tpoa-triangulo</p> <p>AMME</p> <p>Webinar gratis y abierto a todo público</p>	<p>Webinar on The Case of a Mysterious Triangle</p> <p>The Webinar on The Case of a Mysterious Triangle took place on Friday, July 16th, 2021 from 5 pm until 6 pm, with Dr. Eduardo Mancera, Vice President of the Interamerican Committee on Math Education (CIAEM), as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker presented many mathematical curiosities about the famous Pascal's triangle. Dr. Eduardo Mancera showed how the natural numbers, the prime numbers, the squares of the natural numbers, the consecutive powers of 2, the consecutive powers of 11, the number pi, the triangular numbers, the Fibonacci numbers and the golden ratio appear in Pascal's triangle. The speaker also explained the connection between Sierpinski's triangles and Pascal's triangle and described David Singmaster's conjecture about Pascal's triangle. This virtual event was co-organized with the Mexican Association of Educational Mathematics (AMME).</p> 
<p>17</p> <p>10:00 AM - 11:30 AM</p>	 <p>JOLGORIO MATEMÁTICO</p> <p>¡Ven a explorar la actividad interactiva "Circuitos" con toda tu familia!</p> <p>Fecha: sábado 17 de julio de 2021 Hora: 10:00 a.m. Inscríbete en: https://tinyurl.com/jolgorio31</p> <p>FUNDAPROMAT</p>	<p>Thirty-First Math Jamboree</p> <p>The thirty-first Math Jamboree took place on Saturday, July 17th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this thirty-first Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Circuits» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Gisela Diaz and Romina Busain for designing this activity for FUNDAPROMAT.</p> 

<p>20</p> <p>6:00 PM - 8:00 PM</p>	 <p>Décimo Quinto MathsJam Virtual en Panamá</p> <p>¿Eres mayor de 18 años de edad y quieres fortalecer tus habilidades mentales?</p> <p>Fecha: martes 20 de julio de 2021 Hora: 6:00 p.m. Idioma: español</p> <p>Reservarse en el link: https://tinyurl.com/mathsjam15</p>	<p>Fifteenth Virtual MathsJam in Panama</p> <p>The fifteenth Virtual MathsJam in Panama took place on Tuesday, July 20th, 2021 from 6 pm until 8 pm. The MathsJam is a monthly opportunity for math enthusiasts who are 18 years and older to share some quality time with like-minded individuals while solving math puzzles and intellectual challenges in a collaborative environment.</p> <p>This virtual event was free and only for adults. Dr. Jeanette Shakalli, Executive Director of FUNDAPROMAT, acted as the moderator. In this event, participants solved different math challenges using their creativity and imagination. Three challenges that were submitted to the 2021 FUNDAPROMAT Challenges Competition were also presented.</p> 
<p>21</p> <p>6:00 PM - 6:30 PM</p>	 <p>TALENTOS OCULTOS</p> <p>Fecha: miércoles 21 de julio de 2021 Hora: 6:00 p.m.</p> <p>Invitada especial: Karel Vergara, matemática panameña</p> <p>LIVE @fundapromat</p>	<p>Hidden Figures with Karel Vergara</p> <p>Hidden Figures with Karel Vergara took place on Wednesday, July 21st, 2021 from 6 pm until 6:30 pm. The special guest of our second Facebook Live was Karel Vergara, Panamanian math teacher.</p> <p>In this Facebook Live, Karel Vergara told us about her personal story with mathematics, about her experience as a Panamanian female mathematician and about her favorite memory of a Math Carnival. You can watch the video by visiting our Facebook account: @fundapromat or by clicking here.</p> 
<p>22</p> <p>2:00 PM - 3:00 PM</p>	 <p>Fibonacci y la Magia de los Conejos</p> <p>Fecha: jueves 22 de julio de 2021 Hora: 2:00 p.m. Inscríbete en: https://tinyurl.com/fibonacci-magia</p> <p>Expositor: Juan E. Napoles</p> <p>Webinario gratis y abierto a todo público</p>	<p>Webinar on Fibonacci and the Magic of Rabbits</p> <p>The Webinar on Fibonacci and the Magic of Rabbits took place on Thursday, July 22nd, 2021 from 2 pm until 3 pm, with Dr. Juan E. Napoles, Professor at the Northwestern National University and at the National Technological University in Argentina, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by sharing Fibonacci's story. Dr. Juan E. Napoles then presented the growth process of a population of rabbits and highlighted that the number of pairs of rabbits per month is determined by the Fibonacci sequence. The speaker explained that in the Fibonacci sequence, every number is equal to the sum of the two previous numbers, and therefore, we obtain 1, 1, 2, 3, 5, 8, 13... Dr. Juan E. Napoles also described the relation between the Fibonacci sequence and the golden ratio and showed examples of where we can find the golden ratio in our daily lives.</p> 
<p>22</p> <p>5:00 PM - 7:00 PM</p>	 <p>WEBINARIO</p> <p>Tema: Reflexiones de La Pandemia y Preparaciones para el Futuro</p> <p>Fecha: jueves 22 de julio de 2021 Hora: 5:00 p.m.</p> <p>Expositora: Dra. Sandra López-Vergés</p> <p>Inscríbete: https://tinyurl.com/reflexiones-futuro</p>	<p>Webinar on Reflections of the Pandemic and Preparations for the Future</p> <p>The Webinar on Reflections of the Pandemic and Preparations for the Future took place on Thursday, July 22nd, 2021 from 5 pm until 7 pm, as our invited speaker. Sandra Lopez-Verges, Researcher at the Gorgas Memorial Institute for Health Studies. This virtual event was free and open to the general public.</p> <p>The invited speaker presented on the emerging viruses and highlighted the factors that facilitate the emergence of the virus. Dr. Sandra Lopez-Verges mentioned various lessons that the pandemic has left in Panama, including the importance of foresight and the challenges on biosecurity that we face. The speaker also made several recommendations on how we can better prepare ourselves for future pandemics and answered the questions and doubts of the participants about COVID-19. This virtual event was co-organized by the Panamanian Association for the Advancement of Science (APANAC) and the Panama Pod of 500 Women Scientists.</p> 

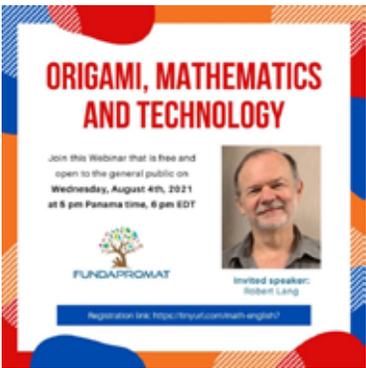
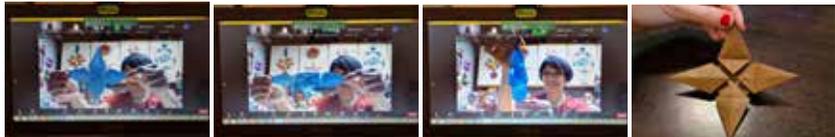
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<p style="font-size: 2em; font-weight: bold;">23</p> <p>12:00 PM - 1:00 PM</p>		<h3>Webinar on How to Win Bets Using Mathematics?</h3> <p>Webinar on How to Win Bets Using Mathematics? took place on Friday, July 23rd, 2021 from 12 pm until 1 pm, as our invited speaker. Zeidy Barraza, teacher at the Tecmilenio University in Mexico, This virtual event was free and open to the general public.</p> <p>The invited speaker presented several different situations and in each case, analyzed if it is in our best interest to place a bet or not. Dr. Zeidy Barraza then explained the concept of expected value and what it means for a game to be fair or not. The speaker also mentioned that even though in casinos the games are set up so that we will most likely lose, the fairest game is the roulette.</p> 
<p style="font-size: 2em; font-weight: bold;">24</p> <p>10:00 AM - 11:30 AM</p>		<h3>Thirty-Second Math Jamboree</h3> <p>The thirty-second Math Jamboree took place on Saturday, July 24th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this thirty-second Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Sequence Puzzles» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Pablo Peralta for designing this activity for FUNDAPROMAT.</p> 
<p style="font-size: 2em; font-weight: bold;">27</p> <p>4:00 PM - 5:30 PM</p>		<h3>Forty-Seventh Virtual Origami Class</h3> <p>The forty-seventh Virtual Origami Class took place on Tuesday, July 27th, 2021 from 4 pm until 5:30 pm, with the origami artist David Medina as our invited speaker. This virtual event was free and open to the general public.</p> <p>For this class, participants needed six paper squares of 10 cm x 10 cm, scissors, a pencil and glue. David Medina then taught how to fold a cockade fan, which is a traditional origami model. This origami design is appropriate for 8-year-olds and above.</p> 
<p style="font-size: 2em; font-weight: bold;">29</p> <p>2:00 PM - 3:00 PM</p>		<h3>Webinar on Puzzles to Enjoy Mathematics</h3> <p>The Webinar on Puzzles to Enjoy Mathematics took place on Thursday, July 29th, 2021 from 2 pm until 3 pm, with Yolanda Serres Voisin, President of the Venezuelan Association of Math Education (ASOVEMAT), as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker presented several puzzles to improve mental calculation. Yolanda Serres Voisin then showed various puzzles to improve geometric thinking and others to improve algebraic reasoning. The speaker highlighted that playing with mathematics improves communication, strengthens reasoning and opens the mind to discover different ways to solve the same puzzle. This virtual event was co-organized with the Venezuelan Association of Math Education (ASOVEMAT).</p> 

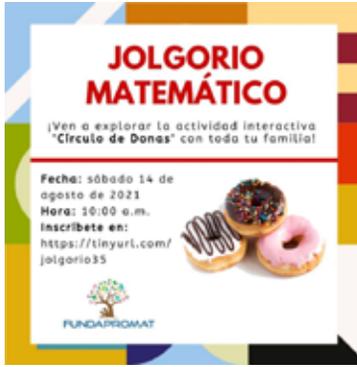
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<p>30 12:00 PM - 1:00 PM</p>		<p>Webinar on The Mathematics of Literature</p> <p>The Webinar on The Mathematics of Literature took place on Friday, July 30th, 2021 from 12 pm until 1 pm, as our invited speaker, with Dr. Marta Macho-Stadler, Professor of Mathematics at the University of the Basque Country in Spain, This virtual event was free and open to the general public.</p> <p>The invited speaker shared several examples of mathematics in literary works, such as in “The Planet of the Apes” by Pierre Boulle, “Marius” by Marcel Pagnol, “Gulliver’s Travels” by Jonathan Swift, “The Mysterious Island” by Jules Verne and “The Gold-Bug” by Edgar Allan Poe. Dr. Marta Macho-Stadler also presented on sestinas, which is a poetic composition created by the Provençal troubadour Arnaut Daniel. The speaker ended the virtual event by highlighting the “Binary Poem” by Jacques Roubaud.</p> 
<p>31 10:00 AM - 11:30 AM</p>		<p>Thirty-Third Math Jamboree</p> <p>The thirty-third Math Jamboree took place on Saturday, July 31st, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this thirty-third Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Playful Frogs» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Gisela Diaz and Romina Busain for designing this activity for FUNDAPROMAT.</p> 
<p>2 7:00 PM - 7:30 PM</p>		<p>Math Coffee with Camila</p> <p>The Math Coffee with Camila took place on Monday, August 2nd, 2021 from 7 pm until 7:30 pm. The special guest of our seventh Instagram Live was Camila Espinoza, math teacher and FUNDAPROMAT volunteer.</p> <p>In this Math Coffee, Camila Espinoza told us about her personal story with mathematics, about her favorite FUNDAPROMAT virtual event and about her experience as volunteer in the Math Jamborees organized by FUNDAPROMAT. You can watch the video by visiting our Instagram account: @fundapromat or by clicking here.</p> 
<p>3 4:00 PM - 5:00 PM</p>		<p>Forty-Eighth Virtual Origami Class</p> <p>The forty-eighth Virtual Origami Class took place on Tuesday, August 3rd, 2021 from 4 pm until 5 pm, with the origami artist Matthew Green as our invited speaker. This virtual event was free and open to the general public.</p> <p>For this class, participants needed one 15 cm x 15 cm paper square.]Matthew Green then taught how to fold a pinwheel, which is a traditional origami model. Using the pinwheel as a base, we also learned how to fold a birdie. These origami designs are appropriate for 8-year-olds and above.</p> 

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<p style="text-align: center; font-size: 2em; font-weight: bold;">4</p> <p style="text-align: center;">5:00 PM - 6:00 PM</p>		<h3>Seventh Math Webinar in English</h3> <p>The seventh Math Webinar in English took place on Wednesday, August 4th, 2021 from 5 pm until 6 pm with the origami artist Robert Lang as our invited speaker. This virtual event was free and open to the general public. This virtual event was free and open to the general public.</p> <p>In this seventh Math Webinar in English, Robert Lang presented on “Origami, Mathematics and Technology.” The speaker defined what origami is and briefly told the story of this Japanese art of paper folding. Robert Lang then presented on Akira Yoshizawa, who inspired the renaissance of origami by not only creating new origami models but also a common language of folding. The speaker also explained the process of how to design an origami model to produce the representation of an object. Robert Lang shared many applications of origami in science, technology, medicine, fashion, food... For example, origami patterns are used to build a telescope, a kayak, a bottle, a microwave antenna, a cake, decorative lamps, structural panels, a bulletproof barrier, a heart implant, artificial liver cells, and much more. For more information, visit the website https://langorigami.com.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">6</p> <p style="text-align: center;">5:00 PM - 6:30 PM</p>		<h3>Webinar on Beauty, Symmetry and Proportion</h3> <p>The Webinar on Beauty, Symmetry and Proportion took place on Friday, August 6th, 2021 from 5 pm until 6:30 pm, with Jose Luis Cisneros, Researcher in the Cuernavaca Unit of the Institute of Mathematics of the National Autonomous University of Mexico (UNAM), as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker defined what beauty is and shared quotes from Rene Descartes, Bertrand Russell and Aristotle that relate mathematics with beauty. Jose Luis Cisneros also described examples of symmetry in nature, in art, in architecture, in literature and in mathematics. The speaker also presented on ratio and proportion and highlighted the famous golden ratio. This virtual event was co-organized with the Mexican Mathematical Society (SMM).</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">7</p> <p style="text-align: center;">10:00 AM - 11:30 AM</p>		<h3>Thirty-Fourth Math Jamboree</h3> <p>The thirty-fourth Math Jamboree took place on Saturday, August 7th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this thirty-fourth Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Word Games» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Pablo Peralta for designing this activity for FUNDAPROMAT.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">10</p> <p style="text-align: center;">4:00 PM - 5:00 PM</p>		<h3>Forty-Ninth Virtual Origami Class</h3> <p>The forty-ninth Virtual Origami Class took place on Tuesday, August 10th, 2021 from 4 pm until 5 pm, with the origami artist Deanna Kwan as our invited speaker. This virtual event was free and open to the general public.</p> <p>For this class, participants needed one sheet of 8.5 x 11 paper. Deanna Kwan then taught how to fold the amazing clapping star, which is an origami model created by Jeremy Shafer. This action model is special because it claps, bows and spins. This origami design is appropriate for 8-year-olds and above.</p> 

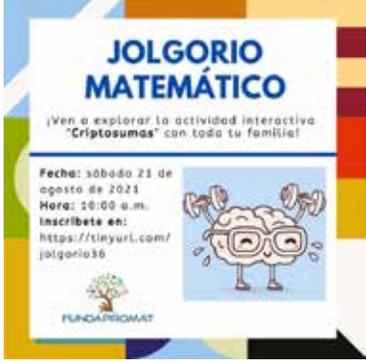
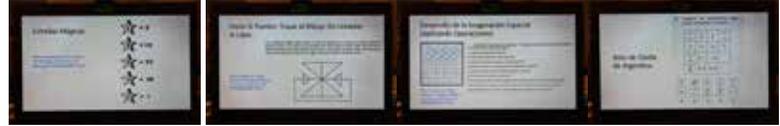
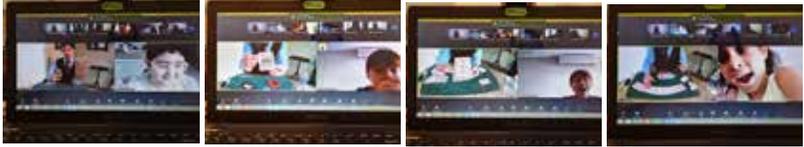
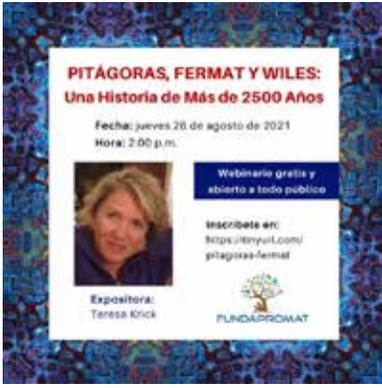
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<p>12</p> <p>2:00 PM - 3:30 PM</p>		<h3>Webinar on Chemistry, Art and Mathematics</h3> <p>The Webinar on Chemistry, Art and Mathematics took place on Thursday, August 12th, 2021 from 2 pm until 3:30 pm, with Natalia Jonard, Professor of Mathematics at the National Autonomous University of Mexico (UNAM), as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by telling the history of topology, an area of mathematics, and explaining the problem of the Königsberg bridges. Natalia Jonard then shared several examples of the applications of topology in art, architecture, film, music, psychoanalysis, genetics and chemistry. The speaker also highlighted the properties of the Möbius band and how chiral objects are related to the catastrophe of the Thalidomide.</p> 
<p>12</p> <p>5:00 PM - 6:00 PM</p>		<h3>Origami Workshop with Glasswing</h3> <p>The Origami Workshop with Glasswing took place on Thursday, August 12th, 2021 from 5 pm until 6 pm. The special guest of this virtual event was Raquel Tovar, math teacher and FUNDAPROMAT volunteer.</p> <p>In this Origami Workshop with Glasswing, Raquel Tovar taught how to fold a jumping frog, which is a traditional origami model. This virtual event was organized with Glasswing International. You can watch the Facebook Live video by visiting En Casa con Glasswing's Facebook account: @encasaconglasswing.</p> 
<p>13</p> <p>12:00 PM - 1:00 PM</p>		<h3>Twenty-Fifth Virtual Encounter with Outstanding Mathematicians</h3> <p>The twenty-fifth Virtual Encounter with Outstanding Mathematicians took place on Friday, August 13th, 2021 from 12 pm until 1 pm, as our invited speaker, Dr. Lilia P. Ake, Researcher in Educational Mathematics at the Autonomous University of Queretaro in Mexico, was our invited speaker. This virtual event was free and open to the general public.</p> <p>On this twenty-fifth Encounter, Dr. Lilia P. Ake shared anecdotes of her personal life and her professional journey as a female mathematician, in which she highlighted how she came to be interested in educational mathematics. The speaker also presented on "Patterns: From Preschool to Jedi Master," in which she shared examples of patterns in nature (for example, in zebras, in a spider web, in a honeycomb, in fish scales, in pineapples...), in art (for example, in the works of art of M.C. Escher) and in decoration (for example, in the tessellations and mosaics of La Alhambra). Dr. Lilia P. Ake also presented several examples of figure, geometric and numerical patterns.</p> 
<p>14</p> <p>10:00 AM - 11:30 AM</p>		<h3>Thirty-Fifth Math Jamboree</h3> <p>The thirty-fifth Math Jamboree took place on Saturday, August 14th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this thirty-fifth Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Circle of Donuts» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Camila Espinoza for designing this activity for FUNDAPROMAT.</p> 

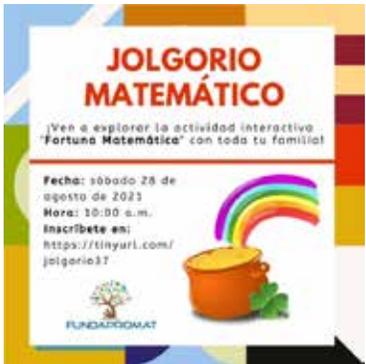
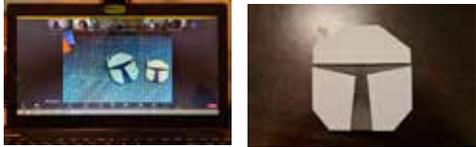
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<p>17</p> <p>4:00 PM - 5:30 PM</p>		<p>Virtual Origami Class #50</p> <p>The Virtual Origami Class #50 took place on Tuesday, August 17th, 2021 from 4 pm until 5:30 pm, with the origami artist Jaciara Grzybowski as our invited speaker. This virtual event was free and open to the general public.</p> <p>For this class, participants needed eight paper squares of 10 cm x 10 cm and glue. Jaciara Grzybowski then taught how to fold a VEGAS snowflake, which is a model created by the speaker herself. This origami design is appropriate for 8-year-olds and above.</p>
<p>18</p> <p>5:00 PM - 5:30 PM</p>		<p>Hidden Figures with Maria Guadalupe Corrales</p> <p>Hidden Figures with Maria Guadalupe Corrales took place on Wednesday, August 18th, 2021 from 5 pm until 5:30 pm. The special guest of our third Facebook Live was Maria Guadalupe Corrales, Panamanian math professor.</p> <p>In this Facebook Live, Maria Guadalupe Corrales told us about her personal story with mathematics, about her experience as a Panamanian female mathematician and about her favorite memory of a Math Carnival. You can watch the video by visiting our Facebook account: @fundapromat or by clicking here.</p>
<p>19</p> <p>2:00 PM - 3:30 PM</p>		<p>Webinar on Teaching Strategies for Preschool</p> <p>The Webinar on Teaching Strategies for Preschool took place on Thursday, August 19th, 2021 from 2 pm until 3:30 pm, with Mayra Rojano, teacher in the Tlaxcala Preschool Normal School in Mexico and member of the Mexican Association of Educational Mathematics (AMME), as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker explained how to construct the concept of a number and highlighted that she follows the Montessori methodology. Mayra Rojano then described the classification of the teaching material in structured and non-structured and shared the four elements that an educational puzzle must have in the classroom. The speaker also presented many examples of activities that can be used in preschool with seeds, strips, dominoes, logic blocks, stuffed animals and other materials. This virtual event was co-organized with the Mexican Association of Educational Mathematics (AMME).</p>
<p>20</p> <p>12:00 PM - 1:30 PM</p>		<p>Webinar on The Mathematics in Modern Physics</p> <p>The Webinar on The Mathematics in Modern Physics took place on Friday, August 20th, 2021 from 12 pm until 1:30 pm, with Beatriz Londoño, leader of the Science and Technology For Everyone Initiative (SciTechXE), as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker presented on the elemental particles, the gravitational waves, black holes, the quantum theory of fields and general relativity. Beatriz Londoño then highlighted Newton, Lorentz, Einstein, Hilbert and the Solvay conference of 1927. The speaker also recommended the YouTube channels of Quantum Fracture and of Sabine Hossenfelder.</p>

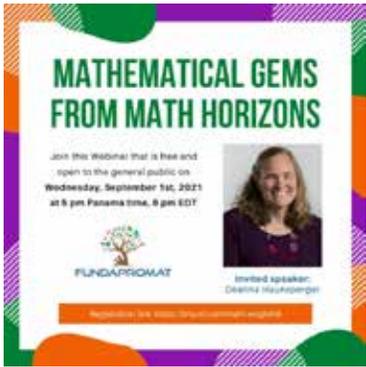
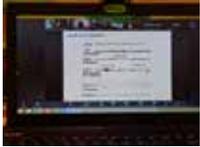
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<p style="font-size: 48pt; text-align: center;">21</p> <p>10:00 AM - 11:30 AM</p>		<h3>Thirty-Sixth Math Jamboree</h3> <p>The thirty-sixth Math Jamboree took place on Saturday, August 21st, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this thirty-sixth Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Cryptsums» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Pablo Peralta for designing this activity for FUNDAPROMAT.</p> 
<p style="font-size: 48pt; text-align: center;">24</p> <p>7:00 PM - 9:00 PM</p>		<h3>Sixteenth Virtual MathsJam in Panama</h3> <p>The sixteenth Virtual MathsJam in Panama took place on Tuesday, August 24th, 2021 from 7 pm until 9 pm. The MathsJam is a monthly opportunity for math enthusiasts who are 18 years and older to share some quality time with like-minded individuals while solving math puzzles and intellectual challenges in a collaborative environment.</p> <p>This virtual event was free and only for adults. Dr. Jeanette Shakalli, Executive Director of FUNDAPROMAT, acted as the moderator. In this event, participants solved different math challenges using their creativity and imagination. Three challenges that were submitted to the 2021 FUNDAPROMAT Challenges Competition were also presented.</p> 
<p style="font-size: 48pt; text-align: center;">25</p> <p>2:00 PM - 3:00 PM</p>		<h3>Third Magic Show with Isaac Reiter</h3> <p>The Third Magic Show with Isaac Reiter took place on Wednesday, August 25th, 2021 from 2 pm until 3 pm, with the magician Isaac Reiter as our invited speaker. This virtual event was free and open to the general public.</p> <p>In this virtual event, Isaac Reiter shared his passion for magic and for mathematics with the participants. Through interactive illusions, close up miracles and fascinating magic tricks with Rubik's cubes, playing cards, one dollar bills, legos, a pencil and a pen, linking rings, ropes and more, the speaker amazed the audience with a spectacular show.</p> 
<p style="font-size: 48pt; text-align: center;">26</p> <p>2:00 PM - 3:00 PM</p>		<h3>Webinar on Pythagoras, Fermat and Wiles: A Story of More Than 2500 Years</h3> <p>The Webinar on Pythagoras, Fermat and Wiles: A Story of More Than 2500 Years took place on Thursday, August 26th, 2021 from 2 pm until 3 pm, with Teresa Krick, Professor of Mathematics at the University of Buenos Aires in Argentina, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by reviewing the Pythagorean Theorem. Teresa Krick then presented the story of Fermat's last theorem, which was finally proven in 1994 by the English mathematician Andrew Wiles. The speaker also described the Pythagorean triples and recommended the book "Fermat's Last Theorem" by Simon Singh.</p> 

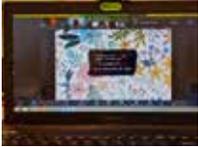
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<p style="text-align: center; font-size: 2em; font-weight: bold;">27</p> <p>12:00 PM - 2:00 PM</p>		<h3>GeoGebra Workshop</h3> <p>The GeoGebra Workshop took place on Friday, August 27th, 2021 from 12 pm until 2 pm, with Karina Rizzo, Creator of the FotoGebra Competition and Professor of Mathematics at High School Education and Teacher Training Institutes in Argentina, as our invited speaker. This virtual event was free and open to the general public.</p> <p>In this workshop, we learned diverse possibilities that GeoGebra offers to work on math modeling through the use of images. Then we explored different tools offered to the user and we saw several examples of math modeling. Karina Rizzo also shared various activities of exploration through GeoGebra Classroom.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">28</p> <p>10:00 AM - 11:30 AM</p>		<h3>Thirty-Seventh Math Jamboree</h3> <p>The thirty-seventh Math Jamboree took place on Saturday, August 28th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this thirty-seventh Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Math Fortune» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. This virtual event was free and open to the general public. We thank Sergio Mendoza and Marleny Vargas for designing this activity for FUNDAPROMAT.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">31</p> <p>4:00 PM - 5:00 PM</p>		<h3>Virtual Origami Class #51</h3> <p>The Virtual Origami Class #51 took place on Tuesday, August 31st, 2021 from 4 pm until 5 pm, with the origami artist David Medina as our invited speaker. This virtual event was free and open to the general public.</p> <p>For this class, participants needed one paper square of 15 cm x 15 cm. David Medina then taught how to fold a Mandalorian Helmet from Star Wars, which is an origami model created by Aronny Pivaral. This origami design is appropriate for 8-year-olds and above.</p> 

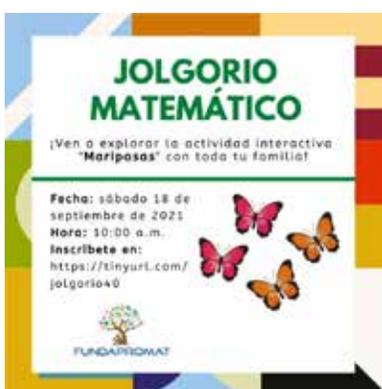
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<p style="text-align: center; font-size: 2em; font-weight: bold;">1</p> <p>5:00 PM - 6:00 PM</p>		<p>Eighth Math Webinar in English</p> <p>The eighth Math Webinar in English took place on Wednesday, September 1st, 2021 from 5 pm until 6 pm with Deanna Haunsperger, Professor of Mathematics at Carleton College in the United States, This virtual event was free and open to the general public.</p> <p>In this eighth Math Webinar in English, Deanna Haunsperger presented on “Mathematical Gems from Math Horizons.” The speaker explained that Math Horizons is a magazine published by the Mathematical Association of America (MAA) with the purpose of introducing undergraduate students to the world of mathematics outside the classroom. Deanna Haunsperger described several interesting articles that appeared in the first 10 years of the magazine.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">2</p> <p>2:00 PM - 3:00 PM</p>		<p>Webinar on Dominoes, Bridges and a Gardener</p> <p>The Webinar on Dominoes, Bridges and a Gardener took place on Thursday, September 2nd, 2021 from 2 pm until 3 pm, with Laura Pastrana, Professor of Mathematics at the National Autonomous University of Mexico (UNAM), as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by telling how two kids made constructions in the videogame Minecraft where they moved between houses through bridges that they could cross only once Laura Pastrana then modeled this example mathematically and related it to the works of Leonhard Euler that became the origin of graph theory. The speaker also presented on a judge who used this same idea to analyze the statement of a gardener accused of murder. Finally, Laura Pastrana shared how it is possible to link all the dominoes following the rules of the game, explaining when it is possible to do so and when it is not.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">3</p> <p>12:00 PM - 1:00 PM</p>		<p>Webinar on The Mathematics of Sleep</p> <p>The Webinar on The Mathematics of Sleep took place on Friday, September 3rd, 2021 from 12 pm until 1 pm, with Alicia Prieto Langarica, Professor of Mathematics at Youngstown State University in the United States, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by explaining what sleep is and why it is so important to sleep. Alicia Prieto Langarica then described what thermoregulation is and how the exterior temperature affects the structure, the quality and the quantity of sleep. The speaker also shared the math model that simulates sleep, which is consistent with experimental data and presents a strong relationship between thermoregulation and the dynamics of sleep.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">4</p> <p>10:00 AM - 11:30 AM</p>		<p>Thirty-Eighth Math Jamboree</p> <p>The thirty-eighth Math Jamboree took place on Saturday, September 4th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this thirty-eighth Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Coloring» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Dr. Jeanette Shakalli for designing this activity for FUNDAPROMAT.</p> 

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<p>6</p> <p>7:00 PM - 7:30 PM</p>		<h3>Math Coffee with Ruben</h3> <p>The Math Coffee with Ruben took place on Monday, September 6th, 2021 from 7 pm until 7:30 pm. The special guest of our eighth Instagram Live was Ruben Martinez, math teacher and FUNDAPROMAT.</p> <p>In this Math Coffee, Ruben Martinez told us about his personal story with mathematics, about his favorite FUNDAPROMAT virtual event and about his experience as volunteer in the Math Jamborees organized by FUNDAPROMAT. You can watch the video by visiting our Instagram account: @fundapromat or by clicking here.</p> 
<p>7</p> <p>4:00 PM - 5:00 PM</p>		<h3>Virtual Origami Class #52</h3> <p>The Virtual Origami Class #52 took place on Tuesday, September 7th, 2021 from 4 pm until 5 pm, with the origami artist Noelia Avila as our invited speaker. This virtual event was free and open to the general public.</p> <p>For this class, participants needed one paper square of 20 cm x 20 cm. Noelia Avila then taught how to fold a wallet, which is an origami model created by Nick Robinson. This origami design is appropriate for 8-year-olds and above.</p> 
<p>10</p> <p>12:00 PM - 1:00 PM</p>		<h3>Twenty-Sixth Virtual Encounter with Outstanding Mathematicians</h3> <p>The twenty-sixth Virtual Encounter with Outstanding Mathematicians took place on Friday, September 10th, 2021 from 12 pm until 1 pm. as our invited speaker. Ana Ros Camacho, Professor of Mathematics at Cardiff University in United Kingdom, This virtual event was free and open to the general public.</p> <p>On this twenty-sixth Encounter, Dr. Ana Ros Camacho shared anecdotes of her personal life and her professional journey as a female mathematician, in which she highlighted that thanks to mathematics, she has had the opportunity to travel a lot. The speaker also presented on "Mathematics and Islamic Art," in which she shared what symmetries are and mentioned various examples of symmetries in nature, in physics, in chemistry and in biology. The speaker also described several examples of transformations and of Islamic geometric patterns. Dr. Ana Ros Camacho then presented on groups as mathematical tools to study symmetries and highlighted the mathematician Emmy Noether.</p> 
<p>11</p> <p>10:00 AM - 11:30 AM</p>		<h3>Thirty-Ninth Math Jamboree</h3> <p>The thirty-ninth Math Jamboree took place on Saturday, September 11th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this thirty-ninth Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Sudoku and Variants» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Julieta Parravicini and Jeanette Shakalli for designing this activity for FUNDAPROMAT.</p> 

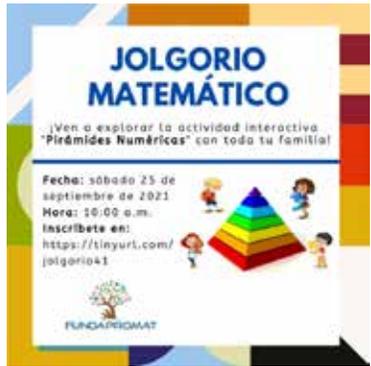
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<p style="font-size: 2em; font-weight: bold;">14</p> <p>4:00 PM - 5:00 PM</p>		<h3>Virtual Origami Class #53</h3> <p>The Virtual Origami Class #53 took place on Tuesday, September 14th, 2021 from 4 pm until 5 pm, with the origami artist Matthew Green as our invited speaker. This virtual event was free and open to the general public.</p> <p>For this class, participants needed one 15 cm x 15 cm paper square. Matthew Green then taught how to fold a penguin, which is a traditional origami model. This origami design is appropriate for 8-year-olds and above.</p> 
<p style="font-size: 2em; font-weight: bold;">15</p> <p>5:00 PM - 5:30 PM</p>		<h3>Hidden Figures with Fany Gonzalez</h3> <p>Hidden Figures with Fany Gonzalez took place on Wednesday, September 15th, 2021 from 5 pm until 5:30 pm. The special guest of our fourth Facebook Live was Fany Gonzalez, Panamanian math professor.</p> <p>In this Facebook Live, Fany Gonzalez told us about her personal story with mathematics, about her experience as a Panamanian female mathematician and about her favorite memory of a Math Carnival. You can watch the video by visiting our Facebook account: @fundapromat or by clicking here.</p> 
<p style="font-size: 2em; font-weight: bold;">17</p> <p>12:00 PM - 1:30 PM</p>		<h3>Webinar on Movies as a Teaching Resource in the Math Classroom</h3> <p>The Webinar on Movies as a Teaching Resource in the Math Classroom took place on Friday, September 17th, 2021 from 12 pm until 1:30 pm, with Alfonso J. Poblacion, member of the Spanish Mathematical Royal Society (RSME), as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker presented several examples about how mathematics has contributed in the development of the movie industry. Alfonso J. Poblacion then shared various movie scenes in which a mathematical reference appears. The speaker also recommended his book "Mathematics in the Movies" and the Facebook page with that same name in Spanish, as well as DivulgaMAT, a portal for the dissemination of mathematics created by the Spanish Mathematical Royal Society (RSME). This virtual event was co-organized with the Spanish Mathematical Royal Society (RSME).</p> 
<p style="font-size: 2em; font-weight: bold;">18</p> <p>10:00 AM - 11:30 AM</p>		<h3>Fortieth Math Jamboree</h3> <p>The fortieth Math Jamboree took place on Saturday, September 18th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this fortieth Math Jamboree, participants were divided into groups depending on whether they were children or adults and explored the interactive activity entitled "Butterflies" in a collaborative and fun environment. This virtual event was free and open to the general public. We thank Dr. Jeanette Shakalli for designing this activity for FUNDAPROMAT.</p> 

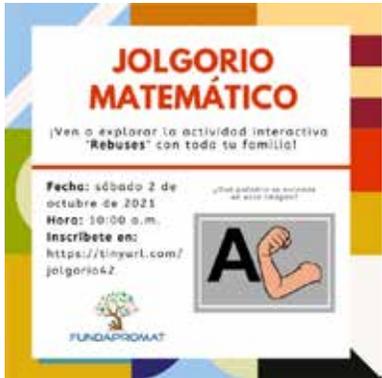
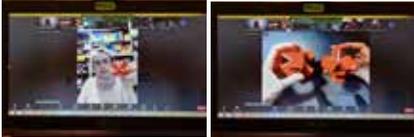
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<p>21</p> <p>7:00 PM - 9:00 PM</p>	 <p>Décimo Séptimo MathsJam Virtual en Panamá</p> <p>¿Eres mayor de 18 años de edad y quieres fortalecer tus habilidades matemáticas?</p> <p>Fecha: martes 21 de septiembre de 2021 Hora: 7:00 p.m. Idioma: español.</p>	<h3>Seventeenth Virtual MathsJam in Panama</h3> <p>The seventeenth Virtual MathsJam in Panama took place on Tuesday, September 21st, 2021 from 7 pm until 9 pm. The MathsJam is a monthly opportunity for math enthusiasts who are 18 years and older to share some quality time with like-minded individuals while solving math puzzles and intellectual challenges in a collaborative environment.</p> <p>This virtual event was free and only for adults. Dr. Jeanette Shakalli, Executive Director of FUNDAPROMAT, acted as the moderator. In this event, participants solved different math challenges using their creativity and imagination. Two challenges that were submitted to the 2021 FUNDAPROMAT Challenges Competition were also presented.</p> 
<p>22</p> <p>7:00 AM - 3:00 PM</p>	 <p>EXITOSA GIRA A PANAMÁ OESTE</p> <p>¡Agradecemos a los directores y docentes que nos atendieron en la primera Gira de FUNDAPROMAT el pasado 22 de septiembre en Instituto Episcopal San José en La Chorrera, Academia Latina en Arraiján, Centro Educativo Bilingüe Juan Demostenes Arosemena en Arraiján, Centro Educativo Básico General Lucas Barcenas en Arraiján, Centro Bilingüe Vista Alegre en Arraiján.</p>	<h3>Road Trip to West Panama</h3> <p>On Wednesday, September 22nd, 2021 the first FUNDAPROMAT road trip took place from 7 am until 3 pm, in which we talked to directors and teachers from the following academic centers in the province of West Panama:</p> <ul style="list-style-type: none"> - San Jose Episcopal Institute in La Chorrera - Latin Academy in Arraijan - Juan Demostenes Arosemena Bilingual Educational Center in Arraijan - Lucas Barcenas Educational Center in Arraijan - Vista Alegre Bilingual Center in Arraijan 
<p>24</p> <p>12:00 PM - 1:00 PM</p>	 <p>Geometría de Planilandia y Kandinsky</p> <p>Fecha: viernes 24 de septiembre de 2021 Hora: 12:00 m.d. Inscríbete en: https://tinyurl.com/planilandia</p>	<h3>Webinar on Geometry of Flatland and Kandinsky</h3> <p>The Webinar on Geometry of Flatland and Kandinsky took place on Friday, September 24th, 2021 from 12 pm until 1 pm, with Yetza Diaz, Professor of Mathematics at the Nueva Granada Military University in Colombia, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker explained that Flatland is a fantastic scientific literary work of art written by Edwin A. Abbott that describes a space of two dimensions inhabited by geometric figures with feelings and human thoughts. Yetza Diaz shared that Wassily Kandinsky was a Russian painter, precursor of abstract art in painting and art theorist, with whom lyrical abstraction and expressionism began. The speaker compared the narrative of Flatland and the expressionism of Kandinsky through graphic interpretation.</p> 
<p>24</p> <p>5:00 PM - 6:00 PM</p>	 <p>Estrategias Tecnodidácticas para el Aprendizaje de la Matemática</p> <p>Fecha: viernes 24 de septiembre de 2021 Hora: 5:00 p.m. Expositora: Marisol Zelarayan Inscríbete en: https://tinyurl.com/apinema</p>	<h3>Webinar on Technodidactic Strategies for Math Learning</h3> <p>The Webinar on Technodidactic Strategies for Math Learning took place on Friday, September 24th, 2021 from 5 pm until 6 pm, with Marisol Zelarayan, member of the Peruvian Association on Math Education Research (APINEMA), as our invited speaker. his virtual event was free and aimed at teachers.</p> <p>The invited speaker described how we can use technological platforms in every stage of math teaching, from the planning to the execution of the class. Some of the platforms that Marisol Zelarayan mentioned include Genially, Mathigon, Gynzy, Visual.ly and Symbaloo. The speaker recommended we combine our didactic knowledge of mathematics with our technological knowledge to expand our professional skills. This virtual event was co-organized with the Peruvian Association on Math Education Research (APINEMA).</p> 

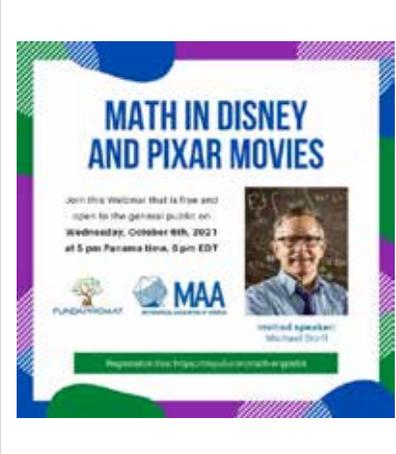
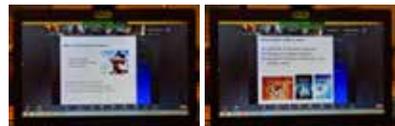
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<p>25</p> <p>10:00 AM - 11:30 AM</p>		<p>Forty-First Math Jamboree</p> <p>The forty-first Math Jamboree took place on Saturday, September 25th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this forty-first Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Number Pyramids» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Dr. Jeanette Shakalli for designing this activity for FUNDAPROMAT.</p> 
<p>28</p> <p>4:00 PM - 5:30 PM</p>		<p>Virtual Origami Class #54</p> <p>The Virtual Origami Class #54 took place on Tuesday, September 28th, 2021 from 4 pm until 5:30 pm, with the origami artist Deanna Kwan as our invited speaker. This virtual event was free and open to the general public.</p> <p>For this class, participants needed three sheets of 8.5 x 11 paper, preferably of three different colors. Deanna Kwan then taught how to fold a telescope, which is an origami model created by Nick Robinson. This origami design is appropriate for 8-year-olds and above.</p> 
<p>30</p> <p>2:00 PM - 3:30 PM</p>		<p>Webinar on Mathematics and Big Data</p> <p>The Webinar on Mathematics and Big Data took place on Thursday, September 30th, 2021 from 2 pm until 3:30 pm, with Dr. Pablo Groisman, Associate Professor in the Faculty of Exact and Natural Sciences at the University of Buenos Aires in Argentina, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event with interactive questions like “What do a wet stone and a car that drives itself have in common? How about a cat and a shotgun? A person who doesn’t lie and the number 999? A wiring and a mathematician? Koningsberg and TikTok? A geometric figure and an equation?” Dr. Pablo Groisman mentioned that we are living through a data revolution and presented on how we can measure distances between points in high dimension in such a way that they reflect the geometry (that we do not know) of the data. The speaker also highlighted in his virtual event Rene Descartes, Pythagoras, Hammersley and Broadbent.</p> 

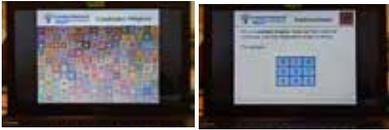
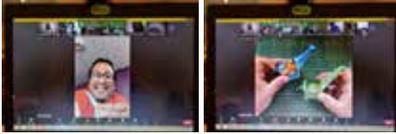
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<p>1</p> <p>12:00 PM - 1:30 PM</p>		<h3>Webinar on Teaching How to Count and Group in Preschool</h3> <p>The Webinar on Teaching How to Count and Group in Preschool took place on Friday, October 1st, 2021 from 12 pm until 1:30 pm, with Oscar Leonardo Pantano, Professor of Mathematics at the Konrad Lorenz University Foundation in Colombia, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker shared a didactic alternative to the teaching-learning of counting, representation and grouping of quantities in math education at the preschool level. Oscar Leonardo Pantano described how to distinguish between one and many, recognize groups with a greater quantity, assign a more abstract object to a more concrete one, recognize the size of groups by counting, group quantities and make groupings in various levels. The speaker also explained that this didactic alternative forms part of the Natural Learning Method of Mathematics that is being implemented in Colombia.</p> 
<p>2</p> <p>10:00 AM - 11:30 AM</p>		<h3>Forty-Second Math Jamboree</h3> <p>The forty-second Math Jamboree took place on Saturday, October 2nd, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this forty-second Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Rebuses» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Andrea Zablotsky for designing this activity for FUNDAPROMAT.</p> 
<p>4</p> <p>7:00 PM - 7:30 PM</p>		<h3>Math Coffee with Raquel</h3> <p>The Math Coffee with Raquel took place on Monday, October 4th, 2021 from 7 pm until 7:30 pm. The special guest of our ninth Instagram Live was Raquel Tovar, math teacher and FUNDAPROMAT volunteer.</p> <p>In this Math Coffee, Raquel Tovar told us about her personal story with mathematics, about her favorite FUNDAPROMAT virtual event and about her experience as volunteer in the Math Jamborees organized by FUNDAPROMAT. You can watch the video by visiting our Instagram account: @fundapromat or by clicking here.</p> 
<p>5</p> <p>4:00 PM - 5:30 PM</p>		<h3>Virtual Origami Class #55</h3> <p>The Virtual Origami Class #55 took place on Tuesday, October 5th, 2021 from 4 pm until 5:30 pm, with the origami artist Jaciara Grzybowski as our invited speaker. This virtual event was free and open to the general public.</p> <p>For this class, participants needed 16 strips of 2.5 cm x 30 cm paper, scissors, glue and tweezers. Jaciara Grzybowski then taught how to fold a Snapology octahedron, which is an origami model created by Heinz Strobl. The speaker explained that this origami model consists of 8 triangles linked with 12 paper strips. This origami design is appropriate for 8-year-olds and above.</p> 

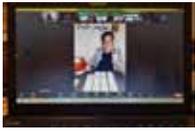
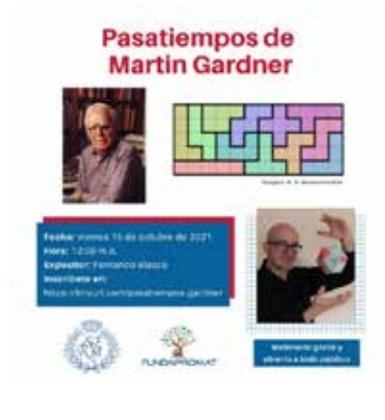
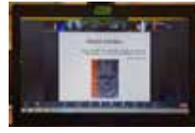
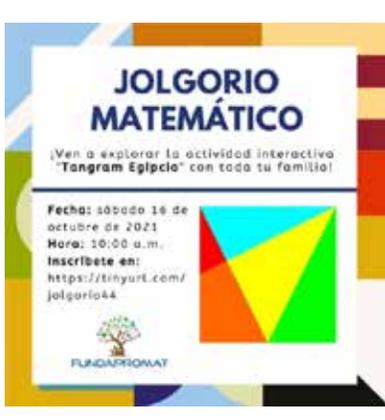
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<p>6</p> <p>7:00 AM - 3:00 PM</p>		<h3>Road Trip to Colon</h3> <p>On Wednesday, October 6th, 2021 the second FUNDAPROMAT road trip took place from 7 am until 3 pm, in which we talked to directors and teachers from the following academic centers in the province of Colon:</p> <ul style="list-style-type: none"> - Santa Maria Academy in Colon - Panamanian Arabic International Academy in Colon - International School of the Caribbean in Colon - Abel Bravo School in Colon 
<p>6</p> <p>5:00 PM - 6:00 PM</p>		<h3>Ninth Math Webinar in English</h3> <p>The ninth Math Webinar in English took place on Wednesday, October 6th, 2021 from 5 pm until 6 pm with Michael Dorff, Past President of the Mathematical Association of America (MAA) and Professor of Mathematics at Brigham Young University, as our invited speaker. This virtual event was free and open to the general public.</p> <p>In this ninth Math Webinar in English, Michael Dorff presented on “Math in Disney and Pixar Movies.” The speaker explained that movies model the real world, the real world is dictated by physics, and mathematics is the language of physics. Dr. Michael Dorff described that math is used in the movies in the movement of animated characters, in the flowing and crashing of objects, and in the simulation of physical objects, such as hair, clothing and snow. The speaker shared several concrete examples of how math is used in the movies, like in Star Wars, Tron Legacy, The Incredibles, Ice Age and Frozen. This virtual event was co-organized by the Mathematical Association of America (MAA).</p> 
<p>7</p> <p>2:00 PM - 3:00 PM</p>		<h3>Webinar on The Story of Pascal’s Triangle that is not Pascal’s</h3> <p>The Webinar on The Story of Pascal’s Triangle that is not Pascal’s took place on Thursday, October 7th, 2021 from 2 pm until 3 pm, with Arturo Mena Lorca, Professor of Mathematics at the Pontifical Catholic University of Valparaiso in Chile, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by explaining that the famous Pascal’s Triangle is actually not a triangle and is not an invention of Pascal either. Arturo Mena Lorca shared six properties of Pascal’s Triangle: the numbers in the “triangle” are natural numbers, there are number 1’s in the edges, the sequence of natural numbers appears twice, it is symmetric, it has a law of formation, and the sum of every row is a power of 2. The speaker showed these six properties through three different perspectives.</p> 
<p>8</p> <p>12:00 PM - 1:00 PM</p>		<h3>Twenty-Seventh Virtual Encounter with Outstanding Mathematicians</h3> <p>The twenty-seventh Virtual Encounter with Outstanding Mathematicians took place on Friday, October 8th, 2021 from 12 pm until 1 pm. as our invited speaker. Ximena Catepillan, Professor Emeritus of Mathematics at Millersville University in Pennsylvania This virtual event was free and open to the general public.</p> <p>On this twenty-seventh Encounter, Dr. Ximena Catepillan shared anecdotes of her personal life and her professional journey as a female mathematician. The speaker also presented on “A Mathematical Journey through the Pre-Columbian Cultures,” in which she explained that ethnomathematics is the term that is used to describe the relation that exists between culture and mathematics. Dr. Ximena Catepillan told us about her trips with her students from Millersville University with a group of archeologists from the Mayan Exploration Center. In this virtual event, we travelled to Chile, Peru, Bolivia, Brazil and Guatemala and we explored several mathematical aspects of the indigenous populations that inhabited those countries. This virtual event was co-organized with the Society of Mathematics of Chile (SOMACHI).</p> 

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<p>9</p> <p>10:00 AM - 11:30 AM</p>		<h3>Forty-Third Math Jamboree</h3> <p>The forty-third Math Jamboree took place on Saturday, October 9th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this forty-third Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Magic Squares» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Dr. Jeanette Shakalli for designing this activity for FUNDAPROMAT.</p> 
<p>9</p> <p>11:00 AM - 8:00 PM</p> <p>10</p> <p>11:00 AM - 7:00 PM</p>		<h3>FUNDAPROMAT Stand in the Bazaar “Art Saving Lives”:</h3> <p>On Saturday, October 9th, 2021 from 11 am until 8 pm and on Sunday, October 10th, 2021 from 11 am until 7 pm we were invited by the J. Thomas Ford Gift of Life Foundation to have a stand in the Bazaar “Art Saving Lives” with fun math activities. This in-person event took place at Town Center Costa del Este in Panama City.</p> 
<p>12</p> <p>4:00 PM - 5:30 PM</p>		<h3>Virtual Origami Class #56</h3> <p>The Virtual Origami Class #56 took place on Tuesday, October 12th, 2021 from 4 pm until 5:30 pm, with the origami artist David Medina as our invited speaker. This virtual event was free and open to the general public.</p> <p>For this class, participants needed 2 paper squares, one 15 cm x 15 cm square for the body and one 7.5 cm x 7.5 cm square for the head of the dinosaur. David Medina then taught how to fold a Dino-box, which is an origami model created by Gay Merrill Gross and adapted by the speaker. This origami design is appropriate for 8-year-olds and above.</p> 
<p>13</p> <p>12:00 PM - 1:00 PM</p>		<h3>Webinar on Mathematics that Excite</h3> <p>The Webinar on Mathematics that Excite took place on Wednesday, October 13th, 2021 from 12 pm until 1 pm, with Sergio Belmonte, Vicepresident of the Museum of Mathematics of Cataluña (MMACA), as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker presented how basic mathematical concepts produce positive emotions through a personal story on the Golbach Conjecture, a surprise referring to pi, various examples of beauty related to phi, and two puzzles with paper balls. Sergio Belmonte also invited the participants to visit the website https://mypaday.com where you can find your birthdate among the digits of pi. This virtual event was co-organized with the Museum of Mathematics of Cataluña (MMACA).</p> 

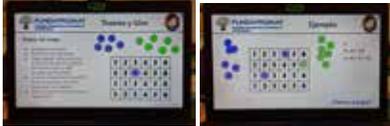
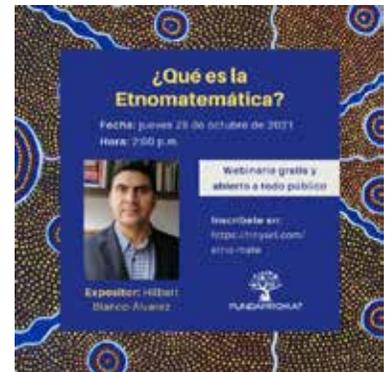
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<p>14</p> <p>2:00 PM - 3:00 PM</p>		<p>Webinar on Mathemagic as a Teaching Resource #2</p> <p>The Webinar on Mathemagic as a Teaching Resource #2 took place on Thursday, October 14th, 2021 from 2 pm until 3 pm, with the mathemagician and teacher Neo Rincon, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker gave the second part of his virtual event in which he shared several games based on mathemagic that can be used as a teaching resource in a classroom. Neo Rincon presented a game with the calendar that is based on polynomials, a game of prediction with the calendar and playing cards, Don Vicente Parra's Game, and a game that involves dice and playing cards. The speaker also recommended the book in Spanish "Educating with Magic" by Xuxo Ruiz Dominguez.</p> 
<p>15</p> <p>12:00 PM - 1:30 PM</p>		<p>Webinar on Martin Gardner's Hobbies</p> <p>The Webinar on Martin Gardner's Hobbies took place on Friday, October 15th, 2021 from 12 pm until 1:30 pm, with the mathemagician Fernando Blasco, President of the Outreach Commission of the Spanish Mathematical Royal Society (RSME), as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker explained how to identify the day of the week that corresponds to a given date, described flexagons, shared the Hip Game, and presented on pentominoes. Fernando Blasco recommended the books in Spanish "Martin Gardner: Math Carnival", "Gardner for Beginners", "Gardner for Experts", "Martin Gardner: Magical-Mathematical Festival" and many more. The speaker also commented on polycubes, the Moebius surprise and hobbies with numbers. This virtual event was co-organized with the Spanish Mathematical Royal Society (RSME).</p> 
<p>16</p> <p>10:00 AM - 11:30 AM</p>		<p>Forty-Fourth Math Jamboree</p> <p>The forty-fourth Math Jamboree took place on Saturday, October 16th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this forty-fourth Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Egyptian Tangram» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Marco Serrano and Marleny Vargas for designing this activity for FUNDAPROMAT, based on the game of the same name created by Carlos Luna from the Museum of Mathematics of Cataluña (MMACA).</p> 
<p>19</p> <p>7:00 AM - 5:00 PM</p>		<p>Road Trip to Cocle</p> <p>On Wednesday, October 19th, 2021 the third FUNDAPROMAT road trip took place from 7 am until 5 pm, in which we talked to directors and teachers from the following academic centers in the province of Cocle:</p> <ul style="list-style-type: none"> - Rio Hato Professional and Technical Institute in Anton - Scala International School in Penonome - San Agustin School in Penonome - Federico Zuñiga Educational Center in Penonome - Santo Domingo Educational Center in Penonome 

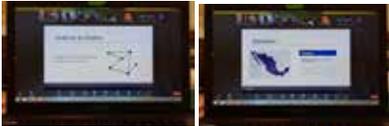
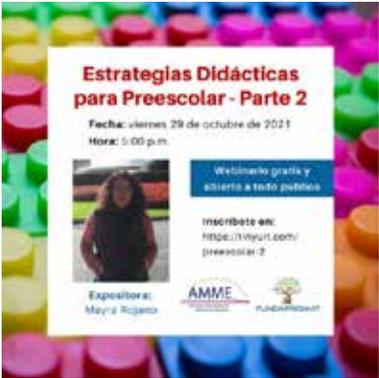
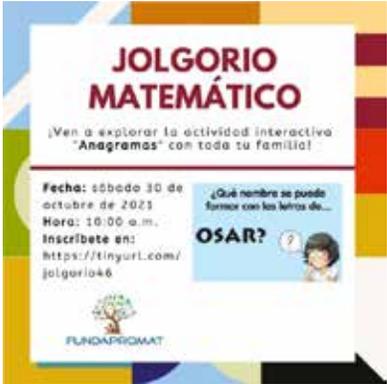
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<p>19</p> <p>7:00 PM - 9:00 PM</p>		<h3>Eighteenth Virtual MathsJam in Panama</h3> <p>The eighteenth Virtual MathsJam in Panama took place on Tuesday, October 19th, 2021 from 7 pm until 9 pm. The MathsJam is a monthly opportunity for math enthusiasts who are 18 years and older to share some quality time with like-minded individuals while solving math puzzles and intellectual challenges in a collaborative environment.</p> <p>This virtual event was free and only for adults. Dr. Jeanette Shakalli, Executive Director of FUNDAPROMAT, acted as the moderator. In this event, participants solved different math challenges using their creativity and imagination.</p>
<p>20</p> <p>5:00 PM - 5:30 PM</p>		<h3>Hidden Figures with Zaida Alonzo</h3> <p>Hidden Figures with Zaida Alonzo took place on Wednesday, October 20th, 2021 from 5 pm until 5:30 pm. The special guest of our fifth Facebook Live was Zaida Alonzo, Panamanian math professor.</p> <p>In this Facebook Live, Zaida Alonzo told us about her personal story with mathematics, about her experience as a Panamanian female mathematician and about her favorite memory of a Math Carnival. You can watch the video by visiting our Facebook account: @fundapromat or by clicking here.</p>
<p>21</p> <p>2:00 PM - 3:00 PM</p>		<h3>Mime-matics: Celebration of Mind in Panama</h3> <p>Mime-matics: Celebration of Mind in Panama took place on Thursday, October 21st, 2021 from 2 pm until 3 pm with the mime-maticians Tim and Tanya Chartier as our invited speakers. This virtual event was free and open to the general public.</p> <p>In this Celebration of Mind in Panama, Tim and Tanya Chartier presented on "Mime-matics." The speakers explained how the invisible world of mime can be used to explore mathematical ideas. Tim and Tanya Chartier used the art of mime to investigate the infinite, weight, the magnitude of force, projectile motion, the remainder, visual spacing and other mathematical concepts. This virtual event was co-organized by the Gathering 4 Gardner Foundation (G4G).</p>
<p>22</p> <p>12:00 PM - 1:00 PM</p>		<h3>Webinar on Mathematical Tourism</h3> <p>The Webinar on Mathematical Tourism took place on Friday, October 22nd, 2021 from 12 pm until 1 pm, with Angel Requena, member of the Spanish Society for the History of Sciences and Techniques (SEHCYT), as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker guided us to discover the implicit and hidden mathematics, to confirm the explicit presence of mathematics, to historically link places to mathematicians, to show mathematical objects and instruments, to come closer to mathematical anthropology and ethnography, and to build stories. Angel Requena invited the participants to visit his website https://mateturismo.wordpress.com. The speaker also highlighted that art and life are enjoyed more with mathematics.</p>

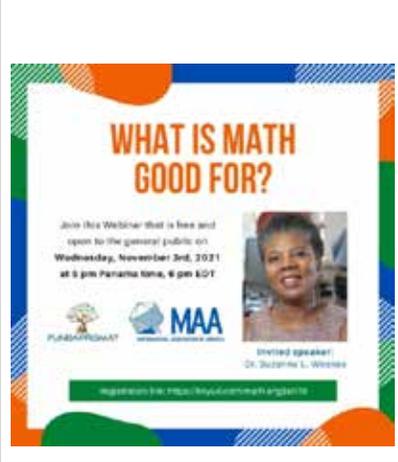
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<p>23</p> <p>10:00 AM - 11:30 AM</p>	 <p>JOLGORIO MATEMÁTICO ¡Ven a explorar la actividad interactiva "Treinta y Uno" con toda tu familia! Fecha: sábado 23 de octubre de 2021 Hora: 10:00 a.m. Inscríbete en: https://tinyurl.com/jolgorio45</p>	<p>Forty-Fifth Math Jamboree</p> <p>The forty-fifth Math Jamboree took place on Saturday, October 23rd, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this forty-fifth Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Thirty One» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Julieta Parravicini for designing this activity for FUNDAPROMAT.</p> 
<p>23</p> <p>3:00 PM - 4:00 PM</p>	 <p>Visita al Hogar María Guadalupe El pasado 23 de octubre realizamos un taller de matemáticas divertidas con origami en este albergue que protege a jóvenes y adolescentes embarazadas</p>	<p>Visit to the Maria Guadalupe Shelter</p> <p>On Saturday, October 23rd, 2021 from 3 pm until 4 pm we ran a fun math workshop with origami at the Maria Guadalupe Shelter, which is a shelter that protects pregnant young girls and adolescents.</p> 
<p>26</p> <p>4:00 PM - 5:30 PM</p>	 <p>CLASE DE ORIGAMI Fecha: martes 26 de octubre de 2021 Hora: 4:00 p.m. Idioma: inglés Materiales: Hoja 8.5 x 11, un lápiz y tijeras Inscríbete en el Link: https://tinyurl.com/origami45</p>	<p>Virtual Origami Class #57</p> <p>The Virtual Origami Class #57 took place on Tuesday, October 26th, 2021 from 4 pm until 5:30 pm, with the origami artist Deanna Kwan as our invited speaker. This virtual event was free and open to the general public.</p> <p>For this class, participants needed one sheet of 8.5 x 11 paper, scissors and a pencil, which they used to make a square. Deanna Kwan then taught how to fold a baby dragon, which is an origami model created by David Mitchell. This origami design is appropriate for 8-year-olds and above.</p> 
<p>28</p> <p>2:00 PM - 3:00 PM</p>	 <p>¿Qué es la Etnomatemática? Fecha: jueves 28 de octubre de 2021 Hora: 2:00 p.m. Webinaria gratis y abierto a todo público Inscríbete en: https://tinyurl.com/etno-mat45 Expositor: Hilbert Blanco Alvarez</p>	<p>Webinar on What is Ethnomathematics?</p> <p>The Webinar on What is Ethnomathematics? took place on Thursday, October 28th, 2021 from 2 pm until 3 pm, with Hilbert Blanco-Alvarez, Professor in the Department of Mathematics and Statistics at the University of Nariño in Colombia and Founding Director of the International Network of Ethnomathematics, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker explained that human beings calculate depending on their culture and that Ubiratan D'Ambrosio defined ethnomathematics as the field of research that studies the processes of generation and creation of knowledge, its social and intellectual organization, and its transmission and diffusion. Hilbert Blanco-Alvarez highlighted the diversity of mathematical thinking and described how different cultures count with the body, with bones, with ropes making knots, with shells and with symbols that create their own system that represents the numbers. The speaker also recommended the Latin American Magazine of Ethnomathematics and the International Network of Ethnomathematics for more information on this topic.</p> 

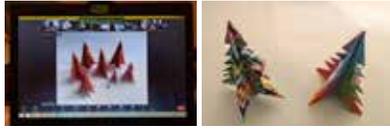
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<p style="font-size: 48px; text-align: center;">29</p> <p style="text-align: center;">12:00 PM - 1:00 PM</p>		<h3>Webinar on Genetics, Archeology and a Crime</h3> <p>The Webinar on Genetics, Archeology and a Crime took place on Friday, October 29th, 2021 from 12 pm until 1 pm, with Natalia Jonard, Professor of Mathematics at the National Autonomous University of Mexico (UNAM), as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker explained that a graph is a set of points and lines that connect some of the points and defined what the intersection graphs are. Natalia Jonard then described what the interval graphs are and narrated their origin in genetics with Seymour Benzer. The speaker shared that Delvert Ray Fulkerson and Oliver Gross characterized the interval graphs using matrices, a result that was applied by David Kendall to solve problems in archeology and by Joel Ephraim Cohen to study the ecosystems. Natalia Jonard also presented how we can use mathematics to solve the murder of the Duke of Denmore.</p> 
<p style="font-size: 48px; text-align: center;">29</p> <p style="text-align: center;">5:00 PM - 6:00 PM</p>		<h3>Webinar on Teaching Strategies for Preschool – Part 2</h3> <p>The Webinar on Teaching Strategies for Preschool – Part 2 took place on Friday, October 29th, 2021 from 5 pm until 6 pm, with Mayra Rojano, teacher in the Tlaxcala Preschool Normal School in Mexico and member of the Mexican Association of Educational Mathematics (AMME), as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker reviewed the classification of the teaching material in structured and non-structured and shared the four elements that an educational puzzle must have in the classroom. Mayra Rojano showed an activity with chromatic tubes increasing the degrees of difficulty, explained Cuban dominoes, and performed an activity of counting and following the rhythm with the Letkiss melody. The speaker also highlighted that games serve as an instructional strategy in the classroom. This virtual event was co-organized with the Mexican Association of Educational Mathematics (AMME).</p> 
<p style="font-size: 48px; text-align: center;">30</p> <p style="text-align: center;">10:00 AM - 11:30 AM</p>		<h3>Forty-Sixth Math Jamboree</h3> <p>The forty-sixth Math Jamboree took place on Saturday, October 30th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this forty-sixth Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Anagrams» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Andrea Zablotsky for designing this activity for FUNDAPROMAT.</p> 

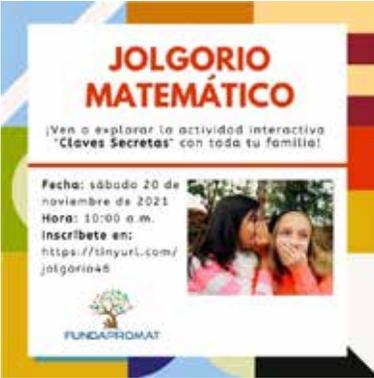
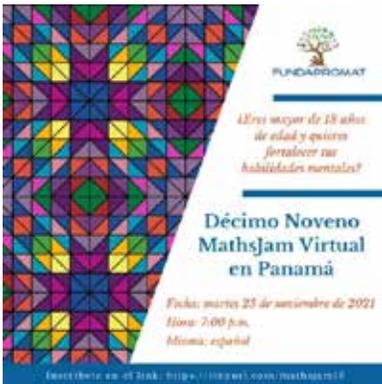
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<p>1</p> <p>7:00 PM - 7:30 PM</p>		<p>Math Coffee with Rafael</p> <p>The Math Coffee with Rafael took place on Monday, November 1st, 2021 from 7 pm until 7:30 pm. The special guest of our tenth Instagram Live was Rafael Araujo, math teacher and FUNDAPROMAT volunteer.</p> <p>In this Math Coffee, Rafael Araujo told us about his personal story with mathematics, about his favorite FUNDAPROMAT virtual event and about his experience as volunteer in the Math Jamborees organized by FUNDAPROMAT. You can watch the video by visiting our Instagram account: @fundapromat or by clicking here.</p> 
<p>2</p> <p>4:00 PM - 5:30 PM</p>		<p>Virtual Origami Class #58</p> <p>The Virtual Origami Class #58 took place on Tuesday, November 2nd, 2021 from 4 pm until 5:30 pm, with the origami artist Noelia Avila as our invited speaker. This virtual event was free and open to the general public.</p> <p>For this class, participants needed one 15 cm x 15 cm paper square. Noelia Avila then taught how to fold kissing lips, which is an origami model created by Son Young Lee. This origami design is appropriate for 8-year-olds and above.</p> 
<p>3</p> <p>5:00 PM - 6:00 PM</p>		<p>Tenth Math Webinar in English</p> <p>The tenth Math Webinar in English took place on Wednesday, November 3rd, 2021 from 5 pm until 6 pm with Dr. Suzanne L. Weekes, Executive Director of the Society for Industrial and Applied Mathematics (SIAM), as our invited speaker. This virtual event was free and open to the general public.</p> <p>In this tenth Math Webinar in English, Dr. Suzanne L. Weekes presented on “What is Math Good For?” The speaker explained that mathematics is used to design automobiles and aircrafts, to create computer animations, to understand the spread of diseases, to bring architectural design to reality, to predict climate, to manage a business well, to make flight schedules, to design efficient water purification systems, to develop a sports team’s winning strategy, to predict what movies you might like, and much more. This virtual event was co-organized by the Mathematical Association of America (MAA).</p> 
<p>12</p> <p>12:00 PM - 1:00 PM</p>		<p>Twenty-Eighth Virtual Encounter with Outstanding Mathematicians</p> <p>The twenty-eighth Virtual Encounter with Outstanding Mathematicians took place on Friday, November 12th, 2021 from 12 pm until 1 pm. Dr. Mariel Saez, Professor of Mathematics at the Pontifical Catholic University of Valparaíso in Chile, was our invited speaker. This virtual event was free and open to the general public.</p> <p>On this twenty-eighth Encounter, Dr. Mariel Saez shared anecdotes of her personal life and her professional journey as a female mathematician. The speaker also presented on “Dido, the Geometry Queen,” in which she narrated the legend of Queen Dido, which is the classic story of the foundation of the Kingdom of Carthage. The speaker explained what geometry is, described the regular polygons and presented on how to find the figure of maximum area that can be enclosed with a perimeter of fixed length.</p> 

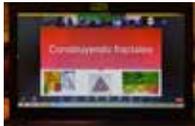
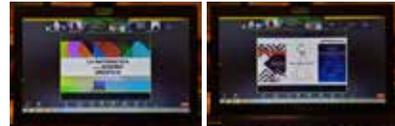
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<p style="font-size: 2em; text-align: center;">13</p> <p>10:00 AM - 11:30 AM</p>		<h3>Forty-Seventh Math Jamboree</h3> <p>The forty-seventh Math Jamboree took place on Saturday, November 13th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this forty-seventh Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Fences» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Julieta Parravicini for designing this activity for FUNDAPROMAT.</p> 
<p style="font-size: 2em; text-align: center;">16</p> <p>4:00 PM - 5:00 PM</p>		<h3>Virtual Origami Class #59</h3> <p>The Virtual Origami Class #59 took place on Tuesday, November 16th, 2021 from 4 pm until 5 pm, with the origami artist David Medina as our invited speaker. This virtual event was free and open to the general public.</p> <p>For this class, participants needed one 15 cm x 15 cm paper square and scissors. David Medina then taught how to fold a Christmas tree, which is a traditional origami model. This origami design is appropriate for 8-year-olds and above.</p> 
<p style="font-size: 2em; text-align: center;">17</p> <p>7:00 AM - 3:00 PM</p>		<h3>Road Trip to North Panama</h3> <p>On Wednesday, November 17th, 2021 the fourth FUNDAPROMAT road trip took place from 7 am until 3 pm, in which we talked to directors and teachers from the following academic centers in the region of North Panama:</p> <ul style="list-style-type: none"> - Helping to Teach Bilingual School in North Panama - Our Lady of Lourdes School in North Panama - Andres Bello Bilingual Institute in North Panama - San Lorenzo Bilingual Institute in North Panama - Monsignor Francisco Beckmann Educational Center in North Panama 
<p style="font-size: 2em; text-align: center;">18</p> <p>2:00 PM - 3:00 PM</p>		<h3>Webinar on Codes, Satellites and Magic</h3> <p>The Webinar on Codes, Satellites and Magic took place on Thursday, November 18th, 2021 from 2 pm until 3 pm, with Elisa Lorenzo Garcia, Professor of Mathematics at the University of Neuchatel in Switzerland, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker explained that correcting errors in the transmission of information is something that we do in a natural way. Elisa Lorenzo Garcia mentioned that a way to guarantee that the information arrives correctly is to send it several times but repeating everything always is not the best option and that's why we use check digits. The speaker also defined what codes are and shared several applications of codes based on their capability to correct errors when sending information. Elisa Lorenzo Garcia also described how we can use codes to send images to Earth taken by satellites in space and how we can use them to perform a fascinating magic trick.</p> 

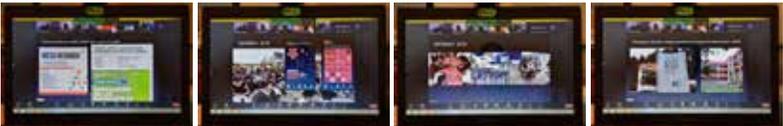
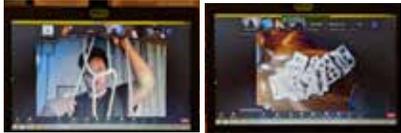
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<p>19</p> <p>12:00 PM - 1:00 PM</p>		<p>Webinar on Mathematical Comic: The Beginning of the Adventure</p> <p>The Webinar on Mathematical Comic: The Beginning of the Adventure took place on Friday, November 19th, 2021 from 12 pm until 1 pm, with Pedro Martinez, math teacher and creator of the mathematical comic “Mathland,” as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker told us the story of Alan, who is a young boy who does not like mathematics until one day, he mysteriously finds himself trapped in a magical world called “Mathland” where mathematics is the key to returning home. Pedro Martinez explained that in his adventure, Alan meets peculiar characters like Zero and the magician Algebra, who help him in his journey. The speaker also mentioned how Alan’s adventure began and described how we can use the mathematical comic in a classroom. This virtual event was co-organized by the Spanish Mathematical Royal Society (RSME).</p> 
<p>20</p> <p>10:00 AM - 11:30 AM</p>		<p>Forty-Eighth Math Jamboree</p> <p>The forty-eighth Math Jamboree took place on Saturday, November 20th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this forty-eighth Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Secret Keys» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Dr. Jeanette Shakalli for designing this activity for FUNDAPROMAT.</p> 
<p>23</p> <p>7:00 PM - 9:00 PM</p>		<p>Nineteenth Virtual MathsJam in Panama</p> <p>The nineteenth Virtual MathsJam in Panama took place on Tuesday, November 23rd, 2021 from 7 pm until 9 pm. The MathsJam is a monthly opportunity for math enthusiasts who are 18 years and older to share some quality time with like-minded individuals while solving math puzzles and intellectual challenges in a collaborative environment.</p> <p>This virtual event was free and only for adults. Dr. Jeanette Shakalli, Executive Director of FUNDAPROMAT, acted as the moderator. In this event, participants solved different math challenges using their creativity and imagination. We thank our volunteers Ramon Martinez and Nicolas Casallas for sharing several interesting puzzles in this last Virtual MathsJam of 2021.</p> 
<p>25</p> <p>2:00 PM - 3:00 PM</p>		<p>Webinar on The Mathematics of The Simpsons</p> <p>The Webinar on The Mathematics of The Simpsons took place on Thursday, November 25th, 2021 from 2 pm until 3 pm, with the science communicator Claudio Sanchez from Argentina as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker mentioned that science is present in the episodes of The Simpsons and many of its screenwriters and producers have university degrees in science careers. Claudio Sanchez shared several fragments of the show and explained the math content in each of them. The speaker also invited all the participants to follow the Facebook page in Spanish «Everything I know about science I learned by watching The Simpsons.»</p> 

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<p>26</p> <p>12:00 PM - 1:00 PM</p>		<p>Webinar on Constructing Fractals</p> <p>The Webinar on Constructing Fractals took place on Friday, November 26th, 2021 from 12 pm until 1 pm, with Ana Isabel Siguero, Professor of Mathematics at the International University of La Rioja (UNIR) in Spain, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by explaining what a fractal is and where we can find fractals in nature. Ana Isabel Siguero then described how we can construct different fractals using sheets of paper and scissors. The speaker also mentioned several well-known fractals like the Sierpinski Triangle, the Menger Sponge and many more.</p> 
<p>26</p> <p>5:00 PM - 6:00 PM</p>		<p>Webinar on The Mathematics in Graphic Design</p> <p>The Webinar on The Mathematics in Graphic Design took place on Friday, November 26th, 2021 from 5 pm until 6 pm, with Emilia Del Busto, member of the Peruvian Association on Math Education Research (APINEMA), as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by explaining what a graphic designer really does. Emilia Del Busto then described how mathematics is used in photography, in illustration, in corporate identity, in printing and in packing. The speaker also explained what the golden ratio is and recommended several books in Spanish about this topic like “Geometry for Graphic Design,” “The Geometry of Design,” and “The Magic of Mathematics.” This virtual event was co-organized by the Peruvian Association on Math Education Research (APINEMA).</p> 
<p>27</p> <p>10:00 AM - 11:30 AM</p>		<p>Forty-Ninth Math Jamboree</p> <p>The forty-ninth Math Jamboree took place on Saturday, November 27th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this forty-ninth Math Jamboree, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «<i>Card Patterns</i>» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Sydney Weaver for designing this activity for FUNDAPROMAT.</p> 
<p>30</p> <p>4:00 PM - 5:30 PM</p>		<p>Virtual Origami Class #60</p> <p>The Virtual Origami Class #60 took place on Tuesday, November 30th, 2021 from 4 pm until 5:30 pm, with the origami artist Jaciara Grzybowski as our invited speaker. This virtual event was free and open to the general public.</p> <p>For this class, participants needed four 10 cm x 10 cm paper squares, glue and scissors. Jaciara Grzybowski then taught how to fold a stellar star, which is an origami model created by the speaker herself. This modular origami can use 6, 7 or 8 modules to form different variants of the stellar star. This origami design is appropriate for 8-year-olds and above.</p> 

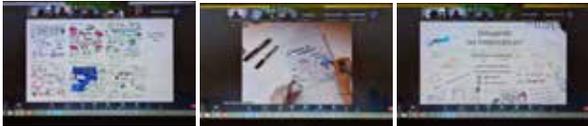
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<p style="text-align: center; font-size: 2em; font-weight: bold;">1</p> <p>5:00 PM - 6:00 PM</p>		<p>Eleventh Math Webinar in English</p> <p>The eleventh Math Webinar in English took place on Wednesday, December 1st, 2021 from 5 pm until 6 pm with the mathematician Tiago Hirth from Portugal as our invited speaker. This virtual event was free and open to the general public.</p> <p>In this eleventh Math Webinar in English, Tiago Hirth presented on “Unlooped: Is It Always the Same Trick?” The speaker performed several magic tricks using a white rope and a red rope, 3 paper clips of different colors and 2 rubberbands. Tiago Hirth then explained how all those magic tricks are based on the Borromean rings. This virtual event was co-organized by the Mathematical Association of America (MAA).</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">2</p> <p>2:00 PM - 3:00 PM</p>		<p>Webinar on Outreach Initiatives: Mathematics with Society</p> <p>The Webinar on Outreach Initiatives: Mathematics with Society took place on Thursday, December 2nd, 2021 from 2 pm until 3 pm, with Beatriz Vargas from the Cuernavaca Unit of the Institute of Mathematics of the National Autonomous University of Mexico (UNAM) as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker shared several math outreach initiatives like ARTEMAT, SIEMBRA, Visible Mathematics, fairs and festivals, Course on Math Outreach, radio program, video clips, virtual events, Panel Discussion on Math Communication in the Virtual Era, Ibero-American Seminar on Math Communication, and many more. Beatriz Vargas also encouraged the audience to actively participate in math communication.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">3</p> <p>12:00 PM - 1:00 PM</p>		<p>Webinar on Mathemagic in the Math Festival of Cordoba</p> <p>The Webinar on Mathemagic in the Math Festival of Cordoba took place on Friday, December 3rd, 2021 from 12 pm until 1 pm, with Emiliano Campagnolo from the Department of Mathematics, Astronomy, Physics and Computing of the National University of Cordoba in Argentina as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by telling us about the Math Festival of Cordoba in Argentina and sharing photos of the participants and the organizers. Emiliano Campagnolo then presented the Spanish deck of cards and performed two mathemagic tricks with this deck of cards. The speaker also did a magic trick with the standard deck of playing cards and another trick with a rope and explained the mathematical concepts behind all the tricks he showed.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">4</p> <p>10:00 AM - 11:30 AM</p>		<p>Math Jamboree #50</p> <p>The Math Jamboree #50 took place on Saturday, December 4th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this Math Jamboree #50, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Popping Bubbles» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Sergio Mendoza for designing this activity for FUNDAPROMAT.</p> 

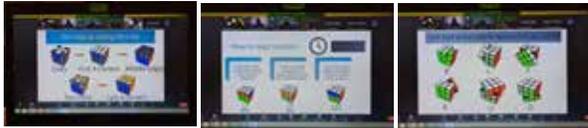
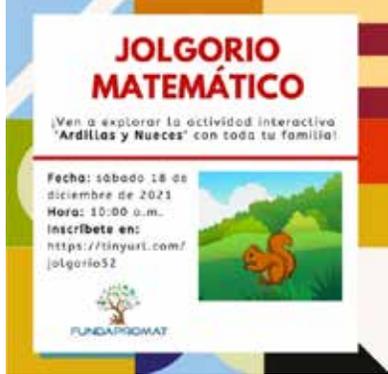
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<p style="text-align: center; font-size: 2em; font-weight: bold;">5</p> <p>10:00 AM - 2:00 PM</p>		<p>Math Festival Celebrating our Second Anniversary:</p> <p>On Sunday, December 5th, 2021 from 10 am until 2 pm we celebrated our Second Anniversary with a Math Festival full of fun math activities for all ages. This free in-person event for the entire family took place at the Veraguas Room in the Wyndham Hotel Albroom Mall in Panama City.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">7</p> <p>6:30 AM - 2:30 PM</p>		<p>Road Trip to East Panama</p> <p>On Tuesday, December 7th, 2021 the fifth FUNDAPROMAT road trip took place from 6:30 am until 2:30 pm, in which we talked to directors and teachers from the following academic centers in the region of East Panama:</p> <ul style="list-style-type: none"> - Loma de Los Naranjos Bilingual Educational Center - Jose del Carmen Echevers Educational Center - Venancio Fenosa Pascual School - China Bilingual Educational Center - Padre Fernando Guardia Jaen Bilingual Center <p>We would like to thank our sponsor for this road trip, the company Biomedical Support & Systems, Inc.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">7</p> <p>4:00 PM - 5:00 PM</p>		<p>Virtual Origami Class #61</p> <p>The Virtual Origami Class #61 took place on Tuesday, December 7th, 2021 from 4 pm until 5 pm, with the origami artist Deanna Kwan as our invited speaker. This virtual event was free and open to the general public.</p> <p>For this class, participants needed three sheets of 8.5 x 11 paper, a pencil and scissors. Deanna Kwan then taught how to fold a mandala garnate, which is an origami model created by Isa Klein. This modular origami can use 6 or 8 modules to form different variants of the mandala garnate. This origami design is appropriate for 8-year-olds and above.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">9</p> <p>2:00 PM - 3:00 PM</p>		<p>Webinar on Music, Dance and Mathematics</p> <p>The Webinar on Music, Dance and Mathematics took place on Thursday, December 9th, 2021 from 2 pm until 3 pm, with Dr. Leslie Jimenez, Professor at the Department of Mathematics of the University of Chile, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker started the virtual event by explaining the musical notes and the octaves. Leslie Jimenez then described how the chromatic scale is related to clock arithmetic. The speaker also presented on the musicality of the swing dance, which is her favorite, and shared the structure of the swing music and its connection to mathematics.</p> 

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<p style="text-align: center; font-size: 2em; font-weight: bold;">10</p> <p>12:00 PM - 1:00 PM</p>		<p>Twenty-Ninth Virtual Encounter with Outstanding Mathematicians</p> <p>The twenty-ninth Virtual Encounter with Outstanding Mathematicians took place on Friday, December 10th, 2021 from 12 pm until 1 pm. Dr. Constanza Rojas-Molina, Professor of Mathematics at the CY Cergy Paris University, was our invited speaker. This virtual event was free and open to the general public.</p> <p>On this twenty-ninth Encounter, Dr. Constanza Rojas-Molina shared anecdotes of her personal life and her professional journey as a female mathematician. The speaker also presented on “Drawing Mathematics,” in which she explored the visual aspect of mathematics and highlighted that drawing is an essential part of the development of math ideas. The speaker also described the advantages of taking visual notes and encouraged the audience to participate in the drawing challenge for the math podcast in Spanish «<i>Démosle Vuelta... Mate con Café</i>» on YouTube.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">11</p> <p>10:00 AM - 11:30 AM</p>		<p>Math Jamboree #51</p> <p>The Math Jamboree #51 took place on Saturday, December 11th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this Math Jamboree #51, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «<i>Broken Calculator</i>» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Camila Espinoza for designing this activity for FUNDAPROMAT.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">11</p> <p>3:00 PM - 4:00 PM</p>		<p>Visit to the San Jose of Malambo Shelter</p> <p>On Saturday, December 11th, 2021 from 3 pm until 4 pm we ran a fun math workshop with origami at the San Jose of Malambo Shelter in Arrajan, which is a shelter that provides care to girls and adolescents in violation of their rights.</p> 
<p style="text-align: center; font-size: 2em; font-weight: bold;">14</p> <p>4:00 PM - 5:00 PM</p>		<p>Virtual Origami Class #62</p> <p>The Virtual Origami Class #62 took place on Tuesday, December 14th, 2021 from 4 pm until 5 pm, with the origami artist Aronny Pivaral as our invited speaker. This virtual event was free and open to the general public.</p> <p>For this class, participants needed one 15 cm x 15 cm paper square. Aronny Pivaral then taught how to fold a Christmas stocking, which is a traditional origami model. This origami design is appropriate for 8-year-olds and above.</p> 

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<p>15</p> <p>12:00 PM - 1:00 PM</p>	 <p>RUBIK'S CUBE WEBINAR</p> <p>Speaker: Sydney Weaver</p> <p>Date: Wednesday, December 15th, 2021 Time: 12 pm Panamá, 12 pm EST Register at: https://tinyurl.com/cube-sydney</p>	<h3>Tenth Rubik's Cube Webinar</h3> <p>The tenth Rubik's Cube Webinar took place on Wednesday, December 15th, 2021 from 12 pm until 1 pm, with the professional speedcuber Sydney Weaver from the United States as our invited speaker. This virtual event was free and open to the general public.</p> <p>On this tenth Webinar, the speaker defined the notation that speedcubers use. Sydney Weaver then explained step by step the algorithms that make up the beginners method to solve the Rubik's Cube and shared some recommendations on how to improve the time of resolution of this math puzzle. You can watch the speaker on Penn and Teller: Fool Us here.</p> 
<p>16</p> <p>2:00 PM - 3:00 PM</p>	 <p>Rompecabezas Matemáticos con Dominó</p> <p>Fecha: jueves 16 de diciembre de 2021 Hora: 2:00 p.m. Inscríbete en: https://tinyurl.com/mate-dominio</p> <p>Expositora: Astryd Banesa Estrada</p> <p>Webinar gratis y abierto a todo público</p>	<h3>Webinar on Math Puzzles with Dominoes</h3> <p>The Webinar on Math Puzzles with Dominoes took place on Thursday, December 16th, 2021 from 2 pm until 3 pm, with Astryd Banesa Estrada, math teacher in Guatemala and volunteer of the Latin American Educational Math Club, as our invited speaker. This virtual event was free and open to the general public.</p> <p>The invited speaker described the benefits of using math puzzles, including to develop concentration, to improve visual memory, to stimulate spatial ability, among others. Astryd Banesa Estrada then shared several math puzzles with dominoes and recommended the website https://mathigon.org.</p> 
<p>18</p> <p>10:00 AM - 11:30 AM</p>	 <p>JOLGORIO MATEMÁTICO</p> <p>¡Ven a explorar la actividad interactiva 'Ardillas y Nueces' con toda tu familia!</p> <p>Fecha: sábado 18 de diciembre de 2021 Hora: 10:00 a.m. Inscríbete en: https://tinyurl.com/jolgorio52</p>	<h3>Math Jamboree #52</h3> <p>The Math Jamboree #52 took place on Saturday, December 18th, 2021 from 10 am until 11:30 am. A Jamboree is a joyful and loud celebration or party. The Math Jamboree is a weekly opportunity for the entire family to enjoy exploring the beauty and richness of mathematics by sharing their ideas on the recreational activities that we present during the virtual event.</p> <p>In this Math Jamboree #52, participants were separated into groups depending on whether they are kids or adults and explored the interactive activity called «Squirrels and Nuts» in an environment of collaboration and a lot of fun. This virtual event was free and open to the general public. We thank Marleny Vargas and Romina Busain for designing this activity for FUNDAPROMAT.</p> 