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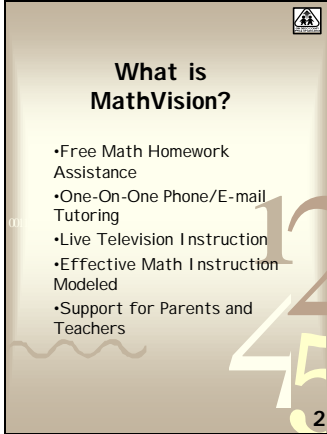
**MathVision**  
Homework Helpline

Jameson Rienick  
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San Diego County Office of Education

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Hello! This is Jameson Rienick. I'm a math specialist at the San Diego County Office of Education and in the next few minutes, I'll be sharing with you an exciting way we're using technology to support all students in San Diego County as they learn mathematics. It's called MathVision.

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**What is MathVision?**

- Free Math Homework Assistance
- One-On-One Phone/E-mail Tutoring
- Live Television Instruction
- Effective Math Instruction Modeled
- Support for Parents and Teachers

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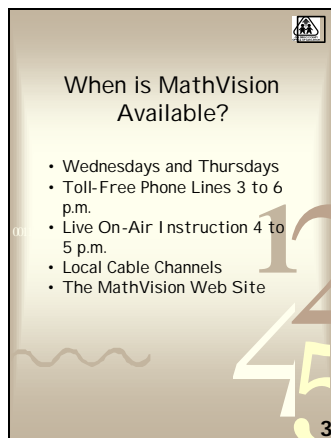
MathVision provides math homework assistance to students free of charge. This assistance is provided by volunteer tutors whom students can reach by telephone or via E-mail. Twice a week, selected student questions are answered live during our 60-minute television broadcast. Besides answering individual questions, the television program allows on-air anchors to model effective teaching strategies. Even teachers and parents sometimes call in with questions about math and about how to help their children with homework.

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MathVision began in 1995. It was the brainchild of Tony Spears who is now Senior Director of Curriculum and Professional Development for San Diego County Office of Education. Tony worked with the County Office's Instructional Television Unit to begin this service, which has been available for eight years. Funding comes from the San Diego County Office of Education and from sponsors such as San Diego Gas & Electric and SBC Pacific Bell.

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MathVision operates twice a week, on Wednesdays and Thursdays, for 30 weeks each school year. Our toll-free phone tutoring is available from 3 to 6 PM, and our televised program airs from 4 to 5 PM the same days. It is carried on local cable channels. MathVision also has a web site where students can find background information about MathVision including how to E-mail us with their questions.

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A presentation slide with a light beige background and a large stylized number '4' on the right. The title is 'MathVision on the Road!' in bold black text. Below the title is a bulleted list: '• 50% shot on location in local classrooms', '• 4-person production crew plus on-air instructor', and '• Students as additional tutors'. A small icon of a person is in the top right corner, and a small number '4' is in the bottom right corner.

**MathVision on the Road!**

- 50% shot on location in local classrooms
- 4-person production crew plus on-air instructor
- Students as additional tutors

The part of MathVision I enjoy the most is when we take the show on the road. Once a week, one of our programs includes an actual classroom in one of our county schools. Accomplishing this requires a four-person production crew, plus the on-air instructor. Each time we go to a school, a teacher at the school helps coordinate our visit and selects ten students to join us as math tutors.

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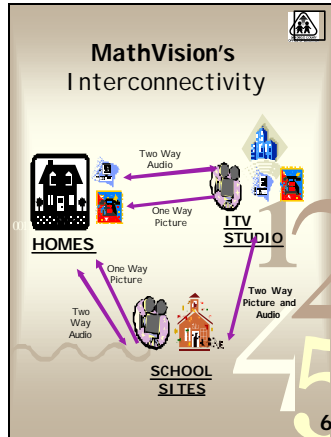
A presentation slide with a light beige background and a large stylized number '4' on the right. The title is 'A Glimpse of MathVision in Action' in bold black text. Below the title is a small video player showing a hand writing algebraic equations on a whiteboard. Below the video player is a link that says 'Download QuickTime Player'. A small icon of a person is in the top left corner, and a small number '4' is in the bottom right corner.

**A Glimpse of MathVision in Action**

[Download QuickTime Player](#)

Would you like a glimpse of what MathVision really looks like in action? By clicking the picture on this page, you'll launch a five minute video that shows one of our programs, including students at a school. To see this video, you'll need the QuickTime player, which can be downloaded for free from the Apple web site.

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This diagram shows the interconnectivity of MathVision. You can see how homes, the ITV studio, and the school sites communicate with one another.

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**MathVision Stats**  
Mid-year 2002-2003

<u>Types of Callers</u>	<u>Time of Calls</u>	<u>Question Content</u>
<b>Males</b>		Number Sense
207	3:00 to 3:59 p.m. 138	142
<b>Females</b>	4:00 to 4:20 p.m. 205	Measurement
493	4:21 to 4:40 p.m. 160	5
Other (Includes parents, teachers, college students, etc.)	4:41 to 5:00 p.m. 192	Geometry
	5:01 to 6:00 p.m. 218	46
		Discrete Math/Logic
<b>Grade Span</b>		3
Elementary School		Prob. Stats.
128		13
Middle School		Patterns/Functions
428		4
High School		Algebra
146		274
Other		Problem Solving
241		166
		Other
		250

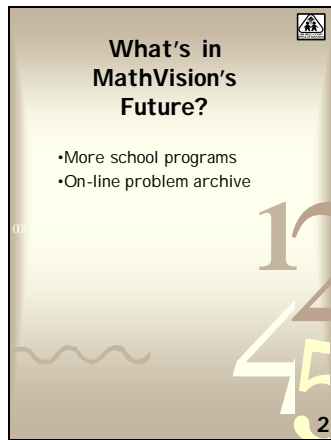
One of the ways we measure our effectiveness and plan for improving MathVision is to track the kinds of calls we receive and who they come from. Here are some examples of the types of information we collect. For example, you can see that in the middle of the 2002-2003 school year, MathVision users were most likely to be female middle school students. Our peak call-in times were during the first 20 minutes of each show and during the hour immediately following the show. More questions related to Algebra than to any other math topic.

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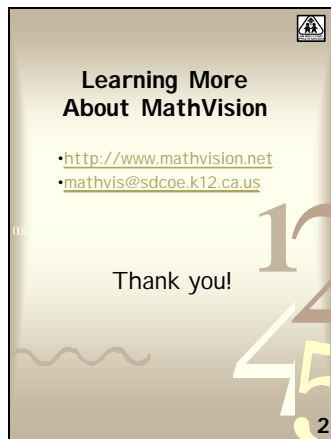
We're proud that MathVision has won a number of awards. This recognition is gratifying because it helps us know we're on the right track and that our work is valued.

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What are MathVision's plans for the future? We plan to continue the 30-week, 60-show schedule, but we hope to increase to 40 the number of shows that include a school. In addition, we are developing a on-line problem archive. This will enable parents, teachers, and students to go to our web site and replay any segment from a previous MathVision show.

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If you're intrigued by MathVision and want more information, I invite you to visit our web site at [www.mathvision.net](http://www.mathvision.net) or E-mail us at [mathvis@sdcoe.k12.ca.us](mailto:mathvis@sdcoe.k12.ca.us). This is Jameson Rienick saying Thank You for taking time to learn about MathVision.