



ISQGD-SS15 Commemorative Album

Young Mathematical Minds in Recreational Mathematics

July 25-26, 2026

Inaugural ISQGD Special Session for School Students

International Society for Quality Growth and Development (ISQGD)

Knowledge with Humanity: Service, Integrity, and Excellence



A Celebration of Curiosity, Confidence, and Mathematical Expression

ISQGD-SS15 was the inaugural ISQGD special session created for school students. This commemorative album opens with the **Inaugural Address by Professor Sushil Kumar Tomar**, continues with the student presentations from **Devika Tripathi** through **Rajasvi Sharma**, and concludes with the **Vote of Thanks and Closing Remarks by Dr. Rakesh Bhatia**.

WHY THIS ALBUM MATTERS

The program brought together recreational mathematics, Vedic Mathematics, mental calculation, mathematical heritage, AI-assisted learning, number theory, puzzles, algebra, and strategies for developing mathematical confidence. The album is designed as a lasting record of the students' participation and as an accessible gateway to the recorded presentations.

Complete event sequence preserved

Inaugural address, student presentations, and closing remarks appear in program order.

Talk serial numbers are intentionally not displayed. Each presentation page includes a video link and QR code.

[VIEW COMPLETE SESSION ARCHIVE](#)



Inaugural Address and Featured Presentations

The names below follow the original program sequence. No talk numbers are shown.

● Professor Sushil Kumar Tomar

Inaugural Address

● Devika Tripathi

Generalization of Magic Squares in Arithmetic and Geometric Progressions

● Dishant Agarwal

Squaring Using Vedic Mathematics Sutras

● Amish Tandon

Role of AI-Based Games in Improving Mathematical Skills

● Abhilasha Tiwari

Prime Factorization Using the Vedic Mathematics Sutra Vilokanam

● AHELAN S

Calculation of Day and Date Using Vedic Mathematics Skills

● Pranav Vohra

Reverse Operations in Addition and Subtraction using Vedic Mathematics Skills

● Ojas Awasthi

History of Vedic Maths

● Shaurya Shukla

Meru Prastara: Introduction, Applications, and Extension

● Vedang Trivedi

Divisibility Test

● Reyansh Bhatia

LCM and HCF using Vilokanam and Urdhva-Tiryagbhyam

● RAMA

Harbans Puzzle

● Krishav Agarwal

Products of Algebraic Expressions

● Rajasvi Sharma

How to Improve Mathematical Skills

● Dr. Rakesh Bhatia

Vote of Thanks and Closing Remarks

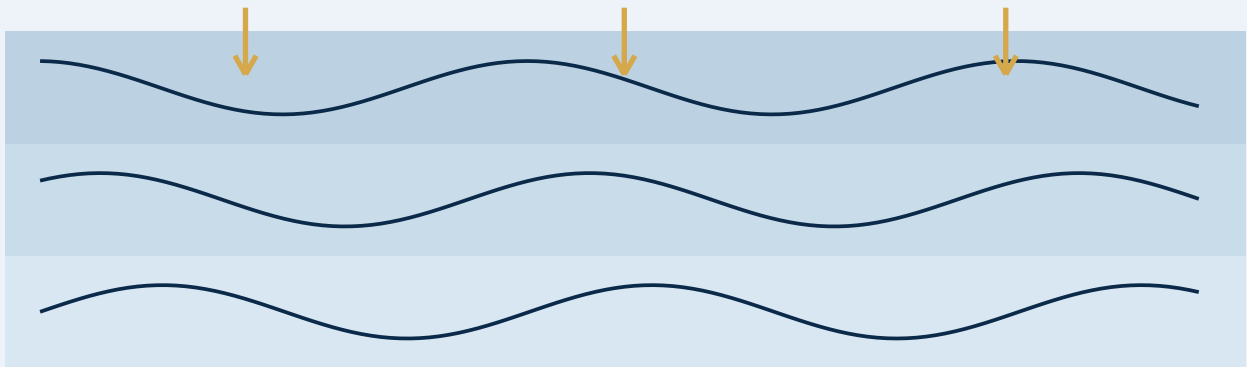


Professor Sushil Kumar Tomar

Professor, Department of Mathematics, Panjab University, Chandigarh, India; Former Vice Chancellor, J. C. Bose University of Science and Technology, YMCA, Faridabad, Haryana, India

INAUGURAL ADDRESS

Opening ISQGD-SS15



Wave Propagation, Research, and Academic Leadership

INAUGURAL MOMENT AND DISTINGUISHED ACADEMIC PROFILE

Professor Tomar formally opened ISQGD-SS15, the Society's inaugural special session for school students. He is a Professor of Mathematics at Panjab University, Chandigarh, and served as Vice Chancellor of J. C. Bose University of Science and Technology, YMCA, Faridabad, from 2022 to 2025. He earned his Ph.D. in Mathematics from Kurukshetra University, has more than 35 years of teaching and research experience, and has published 139 research papers. His research includes wave propagation in elastic, micropolar, and related media. He was elected Fellow of the National Academy of Sciences, India, in 2017 and received an Honorary Fellowship of the International Academy of Physical Sciences in 2023.

[WATCH INAUGURAL ADDRESS](#)[VIEW SESSION ARCHIVE](#)

Scan to watch

Inaugural Address | ISQGD-SS15 | July 25-26, 2026



Devika Tripathi

Sir Padampat Singhania Education Centre, Kanpur, Uttar Pradesh, India

PRESENTATION

Generalization of Magic Squares in Arithmetic and Geometric Progressions

1	15	14	4
12	6	7	9
8	10	11	5
13	3	2	16

Patterns in Progressions

Presentation Focus

An exploration of how magic squares may be generalized using arithmetic and geometric progressions, connecting numerical patterns with structured recreational mathematics.

[WATCH PRESENTATION](#)[VIEW SESSION ARCHIVE](#)

Scan to watch

ISQGD-SS15 | Special Session on Recreational Mathematics | July 25-26, 2026



Dishant Agarwal

Sir Padampat Singhania Education Centre, Kanpur, Uttar Pradesh, India

PRESENTATION

Squaring Using Vedic Mathematics Sutras



Presentation Focus

This presentation introduces Vedic Mathematics approaches to squaring. It emphasizes faster mental calculation, number sense, pattern recognition, accuracy, confidence, and possible classroom applications.

[WATCH PRESENTATION](#)

[VIEW SESSION ARCHIVE](#)



Scan to watch

ISQGD-SS15 | Special Session on Recreational Mathematics | July 25-26, 2026

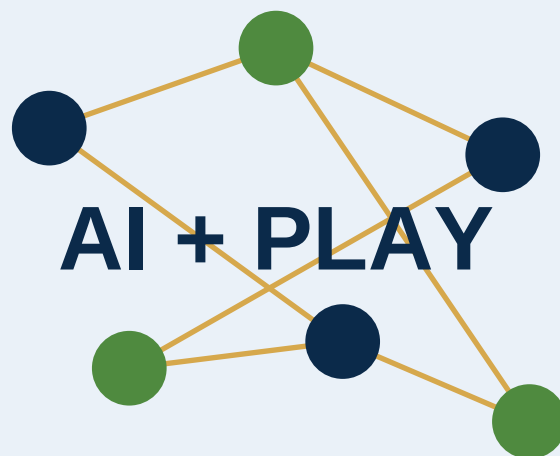


Amish Tandon

Sir Padampat Singhania Education Centre, Kanpur, Uttar Pradesh, India

PRESENTATION

Role of AI-Based Games in Improving Mathematical Skills



Presentation Focus

A discussion of how AI-based mathematical games can personalize practice, provide immediate feedback, sustain motivation through gamification, and strengthen arithmetic, algebra, geometry, reasoning, and problem-solving skills.

[WATCH PRESENTATION](#)[VIEW SESSION ARCHIVE](#)

Scan to watch

ISQGD-SS15 | Special Session on Recreational Mathematics | July 25-26, 2026

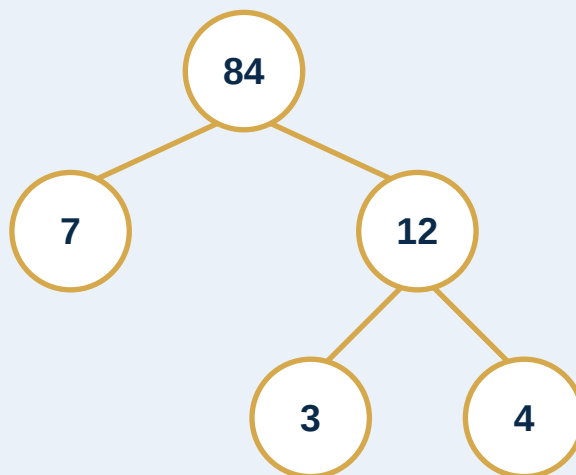


Abhilasha Tiwari

Sir Padampat Singhania Education Centre, Kanpur, Uttar Pradesh, India

PRESENTATION

Prime Factorization Using the Vedic Mathematics Sutra Vilokanam



Presentation Focus

A focused presentation on prime factorization through the Vedic Mathematics Sutra Vilokanam.

[WATCH PRESENTATION](#)

[VIEW SESSION ARCHIVE](#)



Scan to watch

ISQGD-SS15 | Special Session on Recreational Mathematics | July 25-26, 2026



AHELAN S

Sir Padampat Singhania Education Centre, Kanpur, Uttar Pradesh, India

PRESENTATION

Calculation of Day and Date Using Vedic Mathematics Skills

JULY 2026						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28

Presentation Focus

This presentation shows how pattern recognition, modular arithmetic, and rapid mental calculation can help determine the day of the week for a given date, while supporting logical thinking and numerical fluency.

[WATCH PRESENTATION](#)

[VIEW SESSION ARCHIVE](#)



Scan to watch

ISQGD-SS15 | Special Session on Recreational Mathematics | July 25-26, 2026



Pranav Vohra

Sir Padampat Singhania Education Centre, Kanpur, Uttar Pradesh, India

PRESENTATION

Reverse Operations in Addition and Subtraction using Vedic Mathematics Skills

$$47 + 28 = 75$$

A diagram illustrating the reverse operation. It features two horizontal orange arrows. The top arrow points to the right, starting from the left and ending at the right. The bottom arrow points to the left, starting from the right and ending at the left. Between these two arrows, the equation $75 - 28 = 47$ is written in green text.

$$75 - 28 = 47$$

Presentation Focus

An introduction to reverse operations in addition and subtraction using digit patterns, complements, and logical relationships. The approach is presented as a way to improve mental computation, verification, accuracy, and problem-solving.

[WATCH PRESENTATION](#)

[VIEW SESSION ARCHIVE](#)



Scan to watch

ISQGD-SS15 | Special Session on Recreational Mathematics | July 25-26, 2026



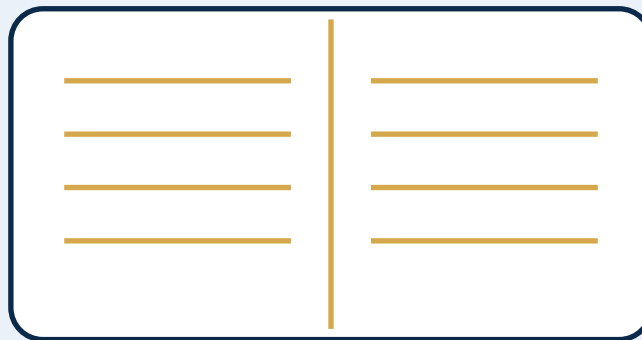
Ojas Awasthi

Sir Padampat Singhania Education Centre, Kanpur, Uttar Pradesh, India

PRESENTATION

History of Vedic Maths

Ideas, Sutras, Publication



Presentation Focus

A historical overview of Vedic Mathematics, its system of Sutras and sub-sutras, the work associated with Bharati Krishna Tirtha, and the later publication and popularization of the subject.

[WATCH PRESENTATION](#)

[VIEW SESSION ARCHIVE](#)



Scan to watch

ISQGD-SS15 | Special Session on Recreational Mathematics | July 25-26, 2026

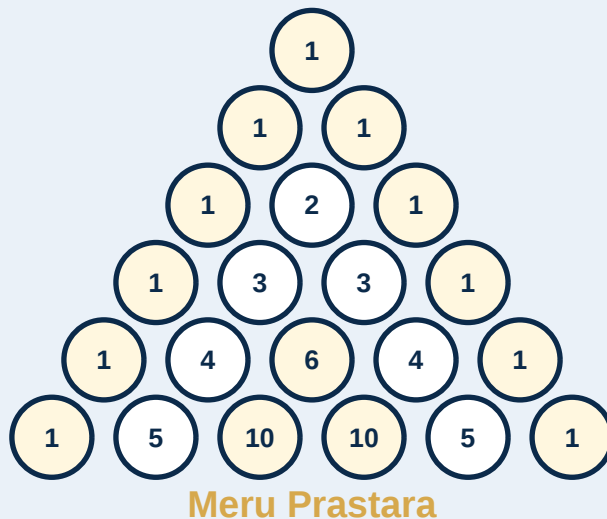


Shaurya Shukla

Sir Padampat Singhania Education Centre, Kanpur, Uttar Pradesh, India

PRESENTATION

Meru Prastara: Introduction, Applications, and Extension



Presentation Focus

An introduction to Meru Prastara and its relationship with binomial coefficients, combinations, probability, symmetry, Fibonacci numbers, and pattern recognition, together with its educational relevance.

[WATCH PRESENTATION](#)

[VIEW SESSION ARCHIVE](#)



Scan to watch

ISQGD-SS15 | Special Session on Recreational Mathematics | July 25-26, 2026



Vedang Trivedi

Sir Padampat Singhania Education Centre, Kanpur, Uttar Pradesh, India

PRESENTATION

Divisibility Test

2

YES

3

YES

5

YES

7

?

9

YES

10

YES

11

?

Presentation Focus

A concise presentation devoted to divisibility tests and divisibility in mathematics.

[WATCH PRESENTATION](#)

[VIEW SESSION ARCHIVE](#)



Scan to watch

ISQGD-SS15 | Special Session on Recreational Mathematics | July 25-26, 2026

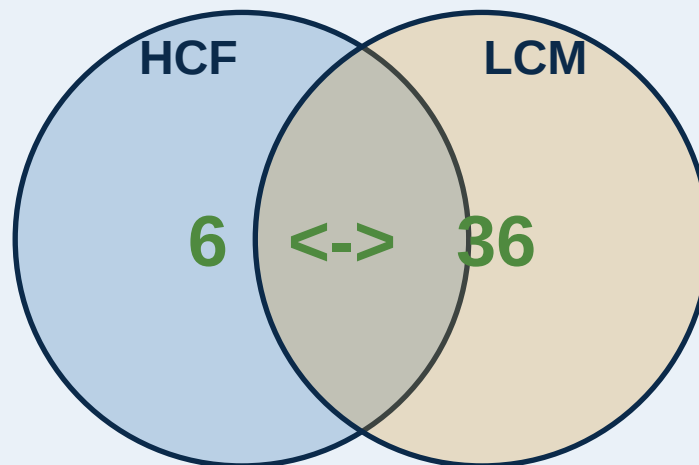


Reyansh Bhatia

D.A.V. Centenary Public School, Jind, Haryana, India

PRESENTATION

LCM and HCF using Vilokanam and Urdhva-Tiryagbhyam



Presentation Focus

This presentation explains HCF and LCM through the Vedic Mathematics Sutras Vilokanam and Urdhva-Tiryagbhyam, with examples, verification methods, and practical applications.

[WATCH PRESENTATION](#)

[VIEW SESSION ARCHIVE](#)



Scan to watch

ISQGD-SS15 | Special Session on Recreational Mathematics | July 25-26, 2026



RAMA

GMSSSS Sanghi, Rohtak, Haryana, India

PRESENTATION

Harbans Puzzle

1	4	3	2
3	2	4	1
4	1	2	3
2	3	1	4

Logic | Operations | Patterns

Presentation Focus

An introduction to Harbans Puzzles, grid-based mathematical challenges inspired by KenKen and Sudoku. The presentation explains the puzzle structure, target operations, and rules for rows, columns, and bounded regions.

WATCH PRESENTATION

VIEW SESSION ARCHIVE



Scan to watch

ISQGD-SS15 | Special Session on Recreational Mathematics | July 25-26, 2026



Krishav Agarwal

Sir Padampat Singhania Education Centre, Kanpur, Uttar Pradesh, India

PRESENTATION

Products of Algebraic Expressions

$$(a + b)(c + d)$$

ac	bc
ad	bd

Presentation Focus

A presentation on multiplying algebraic expressions using distributive, vertical, grid, FOIL, and Vedic Mathematics approaches, highlighting their importance for algebra, factorization, equations, and applications.

[WATCH PRESENTATION](#)

[VIEW SESSION ARCHIVE](#)



Scan to watch

ISQGD-SS15 | Special Session on Recreational Mathematics | July 25-26, 2026



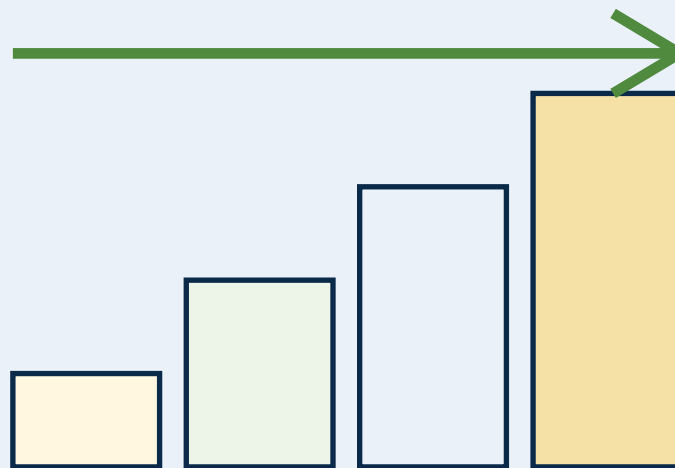
Rajasvi Sharma

Sir Padampat Singhania Education Centre, Kanpur, Uttar Pradesh, India

PRESENTATION

How to Improve Mathematical Skills

Practice - Understanding - Confidence



Presentation Focus

A practical discussion of improving mathematical skills through conceptual understanding, regular practice, mental mathematics, puzzles, games, real-life applications, collaboration, revision, and analysis of errors.

[WATCH PRESENTATION](#)

[VIEW SESSION ARCHIVE](#)



Scan to watch

ISQGD-SS15 | Special Session on Recreational Mathematics | July 25-26, 2026



Dr. Rakesh Bhatia

Organizer, ISQGD-SS15; Visiting Faculty, CCS University, Meerut, India; Faculty of Vedic Mathematics, Sir Padampat Singhania Education Centre, Kanpur, India

CONCLUDING ADDRESS

Vote of Thanks and Closing Remarks

THANK YOU
Closing Remarks

Closing Moment

Dr. Rakesh Bhatia concluded the inaugural ISQGD special session for school students with a vote of thanks and closing remarks.

[WATCH CLOSING REMARKS](#)

[VIEW SESSION ARCHIVE](#)



Scan to watch



A Lasting Record of Young Mathematical Voices

The complete ISQGD-SS15 archive contains the program, abstracts, and available presentation videos.



[OPEN COMPLETE SESSION ARCHIVE](#)

[VISIT ISQGD WEBSITE](#)

Knowledge with Humanity: Service, Integrity, and Excellence

International Society for Quality Growth and Development (ISQGD)