

# WORKSHOP ON FRAMING NON-ROUTINE PROBLEMS IN MATHEMATICS FOR GIFTED CHILDREN OF AGE GROUP 11 – 15.

DR. S.R.SANTHANAM  
ASSOCIATION OF INTERNATIONAL MATHEMATICS EDUCATION  
AND RESEARCH – INDIA.

*The main aim of the workshop is to make the participants to coin non-routine problems in number patterns and elementary algebra. The underlying ideas are a) when several odd or even numbers with some restrictions are multiplied then a pattern is observed in the product and b) the simplifications of algebraic expressions can be successfully employed to solve some elementary number theory problems. These ideas are very useful for teaching gifted children, because they expect problems which involve higher level of thinking. Two non-routine problems one on each of the above mentioned concepts will be worked out through power point presentation to the participants by Dr. S.R.Santhanam*

## ***Planned Structure of the workshop***

Planned Time Line	Topic	Material / Working format /presenter
1. 5 Minutes	Nature and Expectation of a gifted child	PowerPoint Presentation
2. 10 Minutes	The structure of non-routine problems	PowerPoint Presentation
3. 15 Minutes	A non-routine problem in Number pattern	PowerPoint Presentation
4. 15 Minutes	A non-routine problem on elementary algebra applied to a number theory problem	PowerPoint Presentation
5. 15 Minutes	Involving the participants to Coin questions on the basis of the presentations	A-4 Sheets of plain paper + pen/pencil
6. 30 Minutes	Discussion on the questions coined by the participants	Black or white board with chalk / marker

All the power point presentations will done by Dr.S.R.Santhanam