

Ramanujan National Maths Challenge

A National Maths Scholar Search Program





Prize Money -Upto Rs.2 Lakhs



National
Certificate - For
Every
Participant



Trophy



Please Note - All participants will receive a participation certificate, even if not selected in the final. These certificates are highly regarded in India and are awarded by AICTSD at the national level. The certificate holds substantial value and has the potential to significantly boost your academic and professional career.

Syllabus - Class 8

HCF & LCM

- Hcf
- Lcm
- Prime Factorisation
- Hcf By Prime Factorisation
- Lcm By Prime Factorisation
- Lcm By Division Method

Percentages

- Expressing Fractions As Percentages
- Converting Percentages To Fractions
- Expressing Percentages As Decimals
- Expressing Decimals As Percentages
- Finding Percentage Of A Number
- Money And Metric Measures As Percentages
- Why Do We Use Percentages?

Ratio And Proportion

- Introduction
- Ratio
- Proportion
- Unitary Method

Perimeter And Area

- Introduction
- Squares And Rectangles
- Area Of A Parallelogram
- Area Of A Triangle
- Circles
- Conversion Of Units
- Applications

Profit And Loss

- Profit And Loss
- Finding Selling Price
- Finding Cost Price

Comparing Quantities

- Introduction
- Equivalent Ratios
- Percentage Another Way Of Comparing Quantities
- Use Of Percentages
- Prices Related To An Item Or Buying And Selling
- Charge Given On Borrowed Money Or Simple Interest

Problem on Trains

- Train Speed Calculations
- Train & Platform Measurements
- Train Arrival & Departure calculations

Area And Volume

Area

- Finding Area When Whole Squares Are Not Covered
- Area Of Irregular Shapes
- Area Of A Rectangle Or Square
- Finding Length Or Breadth
- Perimeter
- Volume
- Volume Of A Cube
- Volume Of A Cuboid

Surface Area And Volumes

- Introduction
- Surface Area Of Cuboid And A Cube
- Surface Area Of A Right Circular Cylinder
- Surface Area Of A Right Circular Cone
- Surface Area Of A Sphere
- Volume Of A Cuboid
- Volume Of A Cylinder