Aryabhatta National Maths Competition - 2023

Syllabus - College

Problem on Simple Interest

- Calculate Interest

- Calculate Profit / Loss

- Interest Appreciation / Depreciation

Problem on Speed & Distance

- Calculate Speed & Velocity

- Calculate Speed & Distance Proportion

HCF & LCM

- Hcf

- Lcm

- Prime Factorisation

- Hcf By Prime Factorisation

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- Lcm By Prime Factorisation

- Lcm By Division Method

Problem on Trains

- Train Speed Calculations

- Train & Platform Measurements

- Train Arrival & Departure calculations

Problem on AGEs

- AGE Calculations

- Problems on conditional AGE calculations

- Present & Past AGE calculations

Time & Work

- Problem on time & work calculation

- Finding Number Of Days From One Date To Another

- Railway And Air Timings

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- Time Intervals

Problem on True Discount

- Buying & Selling Prices Calculations

- Discounts in transaction calculations

- Profit ratio calculations

Profit And Loss

- Finding Selling Price

- Finding Cost Price

- Profit And Loss