



**ALL INDIA COUNCIL FOR
TECHNICAL SKILL DEVELOPMENT**

अखिल भारतीय तांत्रिक कौशल्य विकास परिषद

Aryabhata National Maths Competition - 2023

Syllabus - Class 8

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



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● Perimeter

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



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● Why Do We Use Percentages?

Ratio And Proportion

- Introduction
- Ratio
- Proportion
- Unitary Method

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

Area And Volume



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

Surface Area And Volume

- 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