



**ALL INDIA COUNCIL FOR
TECHNICAL SKILL DEVELOPMENT**

अखिल भारतीय तांत्रिक कौशल्य विकास परिषद

Aryabhata National Maths Competition - 2023

Syllabus - Class 6

Algebra

- Introduction
- Matchstick Patterns
- The Idea Of A Variable
- More Matchstick Patterns
- More Examples Of Variables
- Use Of Variables In Common Rules
- Expressions With Variables
- Using Expressions Practically
- What Is An Equation?
- Solution Of An Equation

Algebraic Expression



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- Introduction
- How Are Expressions Formed?
- Terms Of An Expression
- Like And Unlike Terms
- Monomials, Binomials, Trinomials And Polynomials
- Addition And Subtraction Of Algebraic Expressions
- Finding The Value Of An Expression
- Using Algebraic Expressions Formulas And Rules

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

Perimeter And Area

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



Averages

- Averages

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

Profit And Loss

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