

# Mathematics Grade 5 Curriculum



Sessions 1 to 28



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## Sessions 1 - 7



### Number Systems

- Understand Place Value and Expanded Form of Large Numbers
- Understand "Crores" & "Millions"
- RDP Session(Revision, Doubt and Practice Session)** 
- Compare, Order, Skip Count and Round off Large Numbers
- Round off Numbers in the Indian Number System
- RDP Session(Revision, Doubt and Practice Session)** 
- Checkpoint Assessment-1** 

## Sessions 8 - 18



### Arithmetic Operations

- Recap
- Add And Subtract Multi-Digit Numbers
- Estimate Sum And Difference Of Multi-Digit Numbers
- RDP Session(Revision, Doubt and Practice Session)** 
- Solve Word Problems On Addition And Subtraction Of Multi-Digit Numbers
- Multiply and Divide Large Numbers
- Mentally Multiply and Divide Large Numbers
- RDP Session(Revision, Doubt and Practice Session)** 
- Checkpoint Assessment-2** 

## Sessions 19 - 28



### Factors, Multiples, and Primes

- Understand multiples and factors and their properties
- Understand prime numbers and prime factorization
- Understand LCM and HCF and use prime factorization and common division to find them
- Understand the relationship between a pair of numbers and their HCF and LCM
- RDP Session(Revision, Doubt and Practice Session)** 
- RECAP: Divisibility
- Perform divisibility tests for 2, 3, 4, 5, 8, 9 and 10
- Apply divisibility tests
- RDP Session(Revision, Doubt and Practice Session)** 
- Checkpoint Assessment-3** 

# Mathematics Grade 5 Curriculum



Sessions 29 - 60



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## Sessions 29 - 39

### $\frac{2}{3}$ Fractions and their Arithmetic Operations

- RECAP: Fractions
- Understand equivalent fractions and lowest form of a fraction
- Compare and order fractions
- Add and subtract like and unlike fractions
- Solve numerical and word problems on addition and subtraction of fractions
- **RDP Session(Revision, Doubt and Practice Session)** 
- Multiply proper and improper fractions by whole numbers
- Multiply fractions by fractions and solve problems
- Divide proper/improper and mixed fractions by whole numbers
- Divide whole numbers and fractions by fractions
- **RDP Session(Revision, Doubt and Practice Session)** 
- **Checkpoint Assessment-4** 

## Sessions 40 - 52

### $.00$ Decimals and their Arithmetic Operations

- Understand expanded forms of and place values in decimals, and their relationship with fractions
- Understand the significance of zeros after a decimal point and decimals on a number line
- Recognise types of decimals and compare and order them
- Add and subtract like and unlike decimals (with/ without regrouping)
- Solve problems on addition and subtraction of decimals
- **RDP Session(Revision, Doubt and Practice Session)** 
- RECAP: Decimal numbers
- Multiply decimal numbers by powers of 10 and decimals
- Multiply decimal numbers by whole numbers
- Multiply decimal numbers by decimal numbers
- **RDP Session(Revision, Doubt and Practice Session)** 
- Divide decimal numbers by powers of ten and by whole numbers
- Solve word problems and use long division method for decimals
- Divide decimal numbers by decimal numbers
- **RDP Session(Revision, Doubt and Practice Session)** 
- **Checkpoint Assessment-5** 

## Sessions 53 - 60

### $\%$ Percentages and Unitary Method

- Understand percentages and their relationship with fractions
- Compare percentages and solve problems on percentages
- **RDP Session(Revision, Doubt and Practice Session)** 
- Apply multiplication and division to find unit value
- Understand and apply unitary method to solve problems
- **RDP Session(Revision, Doubt and Practice Session)** 
- **Checkpoint Assessment-6** 

# Mathematics Grade 5 Curriculum



Sessions 61 - 96



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## Sessions 61 - 69

### Geometry

- RECAP: Lines, line segments, rays and angles
- Identify complementary and supplementary angles, and distinguish between adjacent angles
- Work with lines and vertically opposite angles, and solve problems on lines and angles
- **RDP Session(Revision, Doubt and Practice Session)** 
- Classify triangles based on sides and angles, and understand properties of triangles
- Understand quadrilaterals and the angle sum property
- Understand circles and construct them
- **RDP Session(Revision, Doubt and Practice Session)** 
- **Checkpoint Assessment-7** 

## Sessions 70 - 76

### Mensuration

- Convert various units and solve word problems on them
- Work on perimeter of squares and rectangles
- **RDP Session(Revision, Doubt and Practice Session)** 
- Work on area of squares and rectangles
- Understand the concept of volume
- **RDP Session(Revision, Doubt and Practice Session)** 
- **Checkpoint Assessment-8** 

## Sessions 77 - 81

### Data Handling

- Work on scaled pictographs and tally marks
- Interpret and create bar graphs
- Interpret and label pie charts
- **RDP Session(Revision, Doubt and Practice Session)** 
- **Checkpoint Assessment-9** 

## Sessions 82

### Final Assessment

## Sessions 84 - 96

### Vedic Maths

- Subtraction left to right
- Multiplication by 11, 22, 33 & 44
- Magic Multiplication
- Multiplication of numbers just above 100
- Multiplication of numbers near 100
- Multiplication of numbers near 10, 20, 30, 40 and so on
- Square of numbers ending with 5
- Finding the day of any date between 1900-1999
- Division by 9 using addition
- Division by 8 using addition

### Mental Ability/ Logical Reasoning

- Ranking Test
- Dice
- Number And Alphabet Series
- Blood Relation
- Analogy
- Direction Sense Test