Padhai 365
Learning Begins Step by Step

Topics to be Covered in 7th Class Mathematics

Topic	Content
Large Numbers Around Us	Getting a Feel of Large Numbers
Large Numbers Around Us	Reading and Writing Numbers
Large Numbers Around Us	Land of Tens
Large Numbers Around Us	Of Crores and Crores!
Large Numbers Around Us	Exact and Approximate Values
Large Numbers Around Us	Nearest Neighbors
Large Numbers Around Us	Populations of Cities
Large Numbers Around Us	Patterns in Products
Large Numbers Around Us	A Multiplication Shortcut
Large Numbers Around Us	Fascinating Facts about Large Numbers
Arithmetic Expressions	Simple Expressions
Arithmetic Expressions	Comparing Expressions
Arithmetic Expressions	Reading and Evaluating Complex Expressions
Arithmetic Expressions	Brackets in Expressions

Arithmetic Expressions	Terms in Expressions
Arithmetic Expressions	Swapping and Grouping
Arithmetic Expressions	Swapping the Order of Things in Everyday Life
Arithmetic Expressions	More Expressions and Their Terms
Arithmetic Expressions	Removing Brackets
A Peek Beyond the Point	The Need for Smaller Units
A Peek Beyond the Point	A Tenth Part
A Peek Beyond the Point	A Hundredth Part
A Peek Beyond the Point	Notation, Writing and Reading of Numbers
A Peek Beyond the Point	Units of Measurement
A Peek Beyond the Point	Length Conversion
A Peek Beyond the Point	Weight Conversion
A Peek Beyond the Point	Rupee ─ Paise conversion
A Peek Beyond the Point	Locating and Comparing Decimals
A Peek Beyond the Point	There is Zero Dilemma!
A Peek Beyond the Point	Addition and Subtraction of Decimals
A Peek Beyond the Point	Decimal Sequences
A Peek Beyond the Point	Estimating Sums and Differences

A Peek Beyond the Point	More on the Decimal System
A Peek Beyond the Point	Decimal and Measurement Disasters
A Peek Beyond the Point	Deceptive Decimal Notation
A Peek Beyond the Point	A Pinch of History – Decimal Notation Over Time
Expressions using Letter-Numbers	The Notion of Letter-Numbers
Expressions using Letter-Numbers	Revisiting Arithmetic Expressions
Expressions using Letter-Numbers	Omission of the Multiplication Symbol in Algebraic Expressions
Expressions using Letter-Numbers	Simplification of Algebraic Expressions
Expressions using Letter-Numbers	Pick Patterns and Reveal Relationships
Expressions using Letter-Numbers	Algebraic Expressions to Describe Patterns
Expressions using Letter-Numbers	Patterns in a Calendar
Parallel and Intersecting Lines	Across the Line
Parallel and Intersecting Lines	Measurements and Geometry
Parallel and Intersecting Lines	Perpendicular Lines
Parallel and Intersecting Lines	Between Lines
Parallel and Intersecting Lines	Parallel and Perpendicular Lines in Paper Folding
Parallel and Intersecting Lines	Transversals
Parallel and Intersecting Lines	Corresponding Angles

Parallel and Intersecting Lines	Drawing Parallel Lines
Parallel and Intersecting Lines	Alternate Angles
Parallel and Intersecting Lines	Parallel Illusions
Number Play	Numbers Tell us Things
Number Play	Picking Parity
Number Play	Some Explorations in Grids
Number Play	Generalising a 3 × 3 Magic Square
Number Play	The First-ever 4 × 4 Magic Square
Number Play	Magic Squares in History and Culture
Number Play	Nature's Favourite Sequence: The Virahāṅka–Fibonacci Numbers!
Number Play	Discovery of the Virahāṅka Numbers
Number Play	Digits in Disguise
A Tale of Three Intersecting Lines	Equilateral Triangles
A Tale of Three Intersecting Lines	Constructing a Triangle When its Sides are Given
A Tale of Three Intersecting Lines	Are Triangles Possible for any Lengths?
A Tale of Three Intersecting Lines	Triangle Inequality
A Tale of Three Intersecting Lines	Visualizing the construction of circles
A Tale of Three Intersecting Lines	Construction of Triangles When Some Sides and Angles are Given

A Tale of Three Intersecting Lines	Constructions Related to Altitudes of Triangles
A Tale of Three Intersecting Lines	Types of Triangles
Working with Fractions	Multiplication of Fractions
Working with Fractions	Finding the product:
Working with Fractions	Discussion
Working with Fractions	Connection between the Area of a Rectangle and Fraction Multiplication
Working with Fractions	Multiplying Numerators and Denominators
Working with Fractions	Multiplication of Fractions — Simplifying to Lowest Form
Working with Fractions	Is the Product Always Greater than the Numbers Multiplied?
Working with Fractions	Order of Multiplication
Working with Fractions	Division of Fractions
Working with Fractions	Dividend, Divisor and the Quotient
Working with Fractions	Some Problems Involving Fractions
Working with Fractions	Fractional Relations
Working with Fractions	A Dramatic Donation