



Course Name: Mental Math Techniques

1. Course Module Structure

The course is divided into 10 progressive modules, starting from basic number understanding to advanced mental calculation techniques. Each module focuses on specific skills, building speed, accuracy, and confidence step by step.

2. Module, 3. Topic & 4. Module for 10

Module 1: Basics of Mental Math

Topics:

- Understanding numbers and place value
 - Importance of mental math
 - Estimation techniques
 - Number patterns introduction
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Module 2: Addition Techniques

Topics:

- Fast addition strategies
 - Breaking numbers method
 - Left-to-right addition
 - Rounding and adjustment
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Module 3: Subtraction Techniques

Topics:

- Quick subtraction methods
- Complement method

- Subtracting from base numbers
 - Simplification tricks
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Module 4: Multiplication Basics

Topics:

- Multiplying by 10, 100, 1000
 - Doubling and halving method
 - Multiplication patterns
 - Basic shortcut techniques
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Module 5: Advanced Multiplication

Topics:

- Multiplying large numbers mentally
 - Vedic math techniques
 - Cross multiplication method
 - Squaring numbers quickly
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Module 6: Division Techniques

Topics:

- Quick division strategies
 - Dividing by base numbers
 - Estimation in division
 - Simplifying large divisions
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Module 7: Fractions and Decimals

Topics:

- Converting fractions to decimals
- Quick fraction calculations
- Decimal shortcuts
- Comparing fractions easily

Module 8: Percentages and Ratios

Topics:

- Fast percentage calculations
 - Converting percentages to fractions
 - Ratio simplification
 - Real-life applications
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Module 9: Speed and Accuracy Building

Topics:

- Timed practice exercises
 - Error reduction techniques
 - Mental calculation drills
 - Memory enhancement methods
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Module 10: Real-Life Applications

Topics:

- Mental math in daily life
 - Shopping and budgeting calculations
 - Competitive exam strategies
 - Final practice and assessment
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