

Mental Math Course

by  Tutorx
REDEFINE LEARNING EXPERIENCE



Calculate Faster, Think Sharper, and Build Lifelong Confidence

Turn Numbers into Your Strength

Mental math is not just about speed. It is about building focus, memory, and confidence with numbers. Techniques like Abacus and Vedic Maths help students calculate quickly, think logically, and overcome fear of mathematics.

This course is designed to help learners master mental calculation through two powerful systems: Abacus and Vedic Maths.

About TutorX

TutorX provides personalised one-on-one online learning for students across global curricula including the UK, US, Australia, and Canada, with a strong focus on foundational skills and cognitive development.

Book Your Free Trial Session Today

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A Complete Approach to Mental Math Learning

Mental math combines visualization, logic, and structured techniques to make calculations faster, easier, and more intuitive.

What Students Learn

01

Fast and accurate calculation techniques

02

Visualization-based number processing

03

Logical problem-solving methods

04

Speed and accuracy improvement

05

Confidence in handling numbers



How Learning Happens

01

Step-by-step structured learning

02

One-on-one personalised sessions

03

Practice-based improvement

04

Continuous performance tracking

Beyond Mathematics Students develop:

01

Strong concentration and memory

02

Better analytical thinking

03

Confidence in academics and exams



Abacus Learning

Abacus is a visual and hands-on method that trains the brain to calculate by imagining numbers and bead movements, strengthening both logic and creativity.



Why Learn the Abacus

- **Whole-Brain Activation**

Engages logical and visual thinking for balanced cognitive development

- **Concentration and Focus**

Tracking bead movement improves attention and discipline

- **Working Memory Development**

Enhances memory through visualization techniques

- **Mental Arithmetic Speed**

Advanced learners can solve multi-digit calculations in seconds

- **Strong Number Sense**

Builds deep understanding of place value and number relationships

- **Academic Improvement**

Supports better performance in mathematics and related subjects



What You Learn

- Basic arithmetic using bead techniques

- Speed-building exercises and drills

- Visualization-based mental calculation (Anzan method)

- Structured number processing techniques

➤ UNDERSTANDING THE ABACUS

Students also learn how the Abacus works:



Frame and rods representing place values

Upper bead (value 5) and lower beads (value 1 each)



Beam separation for calculation logic

Visual mapping of numbers across columns



➤ OUTCOME



Perform rapid mental calculations

Improve focus, memory, and accuracy



Build strong mathematical confidence



$$P = 12 \times 3$$

$$\frac{\pi r^2}{4 \times 10^{-7}} \quad 4\pi \times 10^{-7}$$

$$I = \frac{2 + 2}{3 + 1} \times 5$$

$$B = k \frac{e}{d} \quad W_m = \frac{1}{2} \times 3^{32}$$

$$W_m = \frac{1}{2} \times 3^2$$

$$\sum 4.57 \leq 28$$

$$W = P \times 10 \times 12 \times \cos(10)$$

$$R = \frac{2}{\sqrt{L}}$$

$$P = 2^{22} \quad P = 2^2 \times R$$

$$B = \frac{55}{2d}$$

$$B = k \frac{e}{d}$$

$$E = \frac{10}{\Delta t} + 1$$

$$e = 2\sqrt{L} \times$$

$$5 + 7 = 12$$

$$E = \frac{101}{\Delta t} + IR$$

$$(10) = \frac{L \sqrt{t}}{i}$$

$$5 + 7 = 12$$

$$E = \frac{70 \times \Delta t}{nt}$$

VEDIC MATHS LEARNING

Vedic Maths is a system of powerful calculation techniques based on logical patterns that simplify complex problems.

THE 16 VEDIC SUTRAS

Vedic Maths is built on 16 core principles that act as universal shortcuts for solving mathematical problems efficiently.

➤ Key Concepts You Learn

- Ekadhikena Purvena
Squaring numbers ending in 5 quickly
- Nikhilam Navatashcaramam Dashatah
Fast multiplication near base numbers
- Urdhva-Tiryagbhyam
Universal multiplication method
- Paravartya Yojayet
Simplified division techniques
- Sankalana-Vyavakalanabhyam
Solving equations using addition and subtraction
- Yavadunam
Squaring numbers close to base values

Shortcut
techniques
for faster
calculations



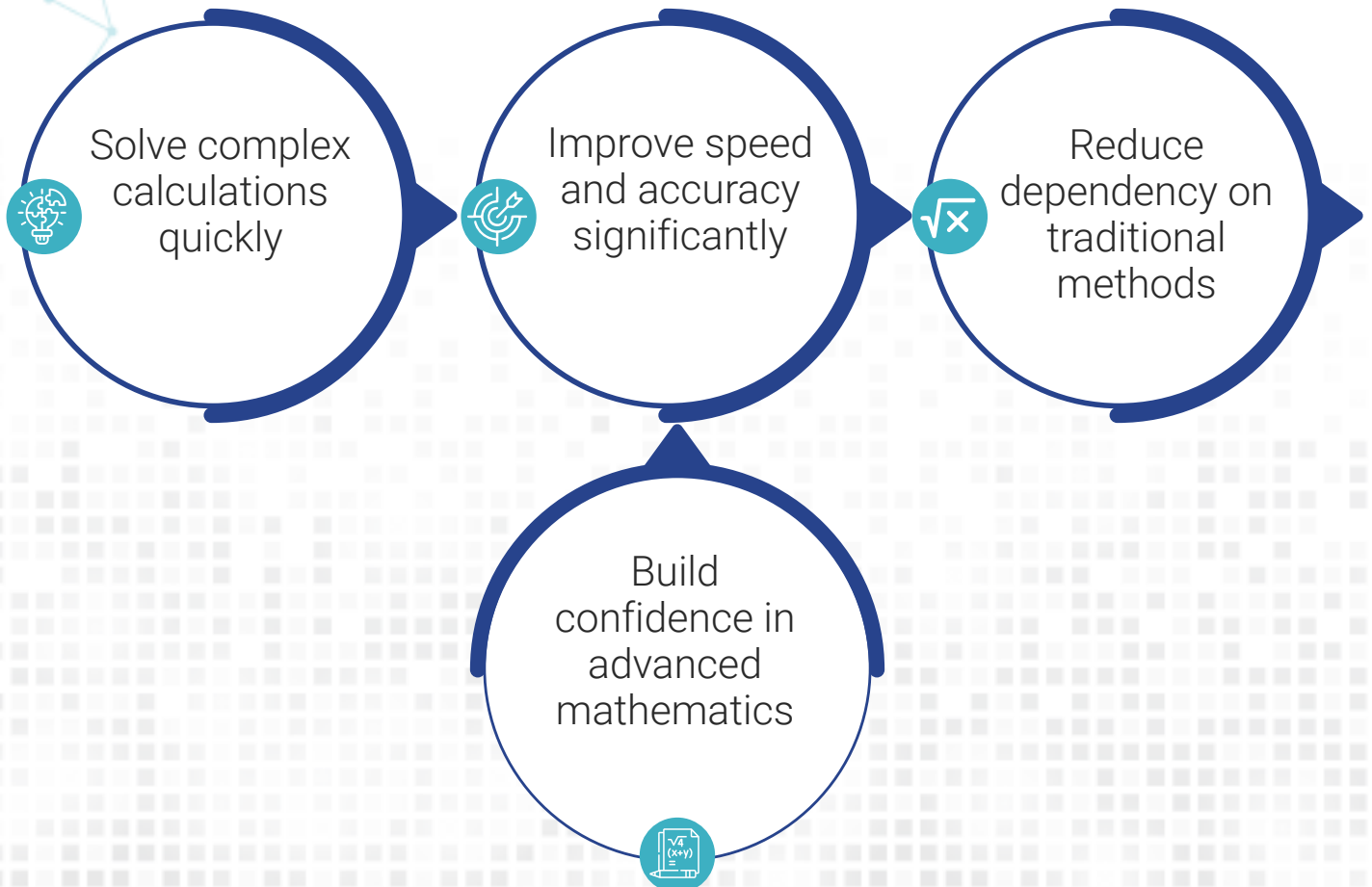
Competitive
exam-focused
strategies

Multiplication,
division, squares,
and roots

Algebraic
problem-solving
methods



Outcome



COMBINED LEARNING BENEFITS

When Abacus and Vedic Maths are learned together, they create a powerful and complete mental math system.

DUAL METHOD ADVANTAGE

Abacus builds visualization and number sense, while Vedic Maths develops logical shortcuts and speed. Together, they strengthen both intuitive and analytical thinking.

➤ Core Benefits



Solid arithmetic foundation



Enhanced mental math skills



Visualization and shortcut techniques



Better number sense



Sharper focus and memory



Speed and accuracy improvement

➤ Real Academic Impact - Students often experience:



Faster exam completion



Improved confidence in math



Reduced calculation errors



Better overall academic performance

CERTIFICATION

Students receive a course completion certificate recognising their skills in Abacus and Vedic Maths.

Long-Term Benefits



Strong mathematical foundation



Improved concentration and memory



Faster thinking and problem-solving



Confidence in academics and competitive exams

Who This Course is For



Students struggling with math



Beginners building number confidence



Students preparing for competitive exams



Anyone looking to improve mental calculation skills



Why Choose TutorX

1:1 personalized
classes

01

Certified &
experienced tutors

02

Flexible scheduling

03

Real project-based
learning

04

Regular progress
tracking

05

Parent feedback
sessions

06

Start Your Mental Math Journey Today

Mental math is a lifelong skill that improves confidence, speed, and clarity in thinking. Learning it early creates a strong academic foundation.

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