

mathematics tricks for fast calculation

Mathematics Tricks for Fast Calculation: Unlocking the Power of Mental Math

mathematics tricks for fast calculation are more than just party tricks or classroom novelties—they are practical tools that can boost your confidence, enhance problem-solving skills, and make everyday math tasks quicker and more enjoyable. Whether you're a student aiming to improve your speed in exams, a professional who frequently deals with numbers, or simply someone eager to sharpen your mental agility, adopting these smart techniques can transform your approach to numbers.

In this article, we'll explore a variety of clever methods and shortcuts that simplify arithmetic operations, from multiplication and division to squaring numbers and working with percentages. Along the way, you'll discover how to harness patterns, use number sense, and apply logical steps that reduce complex calculations to straightforward mental exercises.

Why Learning Mathematics Tricks for Fast Calculation Matters

In today's fast-paced world, the ability to calculate quickly is highly valuable. While calculators and smartphones are ubiquitous, relying solely on them can slow you down in situations where instant answers are needed. Beyond practical applications, sharpening your mental math skills improves cognitive function, memory, and concentration.

Moreover, understanding these tricks deepens your grasp of fundamental math concepts, making it easier to tackle more advanced problems. It also helps eliminate anxiety around numbers by building a sense of familiarity and control.

Basic Mathematics Tricks for Fast Calculation Everyone Should Know

Before diving into complex strategies, mastering some basic tricks can lay a strong foundation for quick calculations.

Multiplying by 5 Made Easy

Multiplying a number by 5 can sometimes feel cumbersome. Here's a simple way to speed it up:

- Multiply the number by 10 (just add a zero to the end).
- Then divide the result by 2.

For example, to calculate 36×5 :

- $36 \times 10 = 360$
- $360 \div 2 = 180$

So, $36 \times 5 = 180$. This method leverages the ease of multiplying by 10 and quick division by 2, making calculations faster in your head.

Squaring Numbers Ending with 5

Squaring numbers that end with 5 is a classic mental math trick. Suppose you want to find 35^2 :

- Multiply the first digit(s) by one more than itself: $3 \times 4 = 12$
- Append 25 to the result: 1225

Therefore, $35^2 = 1225$. This works for any two-digit number ending in 5 (e.g., $45^2 = 4 \times 5 = 20 \rightarrow 2025$).

Quick Addition and Subtraction Using Complements

Sometimes, adding or subtracting numbers close to multiples of 10 or 100 can be simplified by using complements. For example:

To calculate $1000 - 367$:

- Think of 367 as 400 - 33.
- So, $1000 - 367 = 1000 - 400 + 33 = 600 + 33 = 633$.

This approach breaks down numbers into easier chunks, reducing mental load.

Advanced Mathematics Tricks for Fast Calculation

Once you're comfortable with basic shortcuts, you can explore more intricate methods that tackle larger numbers and more complex operations.

Multiplying Two-Digit Numbers Close to 100

When multiplying numbers near 100, use the following trick:

- Subtract each number from 100.
- Add the differences.
- Subtract this sum from 100.

- Multiply the differences.
- Combine the two results appropriately.

Example: 97×96

- $100 - 97 = 3$
- $100 - 96 = 4$
- Sum of differences = $3 + 4 = 7$
- Subtract from 100: $100 - 7 = 93$
- Multiply differences: $3 \times 4 = 12$
- Final answer: 9312

This method reduces the multiplication to simpler additions and multiplications of small numbers.

The Rule of 9 for Multiplication and Division

The number 9 has fascinating properties that make calculations involving it easier. For example, to multiply a number by 9 quickly:

- Multiply by 10.
- Subtract the original number.

Example: 23×9

- $23 \times 10 = 230$
- $230 - 23 = 207$

For division by 9, the digital root (sum of digits repeated until a single digit remains) can help verify answers quickly.

Multiplying by 11 Instantly

Multiplying any two-digit number by 11 is straightforward:

- Add the two digits together.
- Place the sum between the original digits.

Example: 45×11

- $4 + 5 = 9$
- Place 9 between 4 and 5 $\rightarrow 495$

If the sum exceeds 9, carry over the extra digit:

Example: 57×11

- $5 + 7 = 12$

- Place 2 between 5 and 7 $\rightarrow$ 527
- Add the carryover 1 to 5: $5 + 1 = 6$
- Final answer: 627

Speedy Tricks for Working with Percentages

Percentages can often seem complicated, but with the right tricks, calculating them becomes quick and painless.

Finding 10%, 5%, and 1% Quickly

- 10% of a number is simply dividing by 10.
- 5% is half of 10%.
- 1% is dividing by 100.

For example, to find 5% of 240:

- 10% of 240 = 24
- 5% is half of 24 = 12

This technique is extremely useful for calculating discounts, tips, or interest rates mentally.

Using the “Add and Subtract” Method for Percent Changes

To calculate a percentage increase or decrease quickly, break it down into parts.

Example: Increase 250 by 15%

- Find 10%: 25
- Find 5%: 12.5
- Add: $25 + 12.5 = 37.5$
- Add to original: $250 + 37.5 = 287.5$

This method avoids memorizing complex formulas and encourages mental flexibility.

Harnessing Number Sense and Patterns

Beyond memorized tricks, developing a keen number sense is key to fast calculations. This means recognizing patterns, estimating intelligently, and understanding the relationships between numbers.

Using Estimation and Rounding

Estimation helps you quickly arrive at a close answer when exact precision isn't necessary. For example, when multiplying 48×52 , you can round both numbers to 50 and calculate $50 \times 50 = 2500$, then adjust slightly based on the rounding.

Recognizing Multiplication Patterns

Certain multiplication tables have inherent patterns. For instance:

- Multiplying by 9: The digits of the product add up to 9 (e.g., $9 \times 7 = 63$, and $6 + 3 = 9$).
- Multiplying numbers ending in 1: $21 \times 31 = (2 \times 3) \mid (1 \times 1) = 6 \mid 1 = 651$ (after adjusting for place values).

Recognizing these patterns speeds up calculations and enhances mathematical intuition.

Tips for Practicing Mathematics Tricks for Fast Calculation

Like any skill, mental math improves with consistent practice. Here are some ways to integrate these tricks into your daily routine:

- **Start Small:** Begin with simple calculations before moving to complex problems.
- **Use Flashcards:** Create cards with problems and solutions to reinforce memory.
- **Play Math Games:** Engage with puzzles and apps designed to improve mental math.
- **Practice Real-Life Scenarios:** Calculate bills, discounts, or time intervals mentally to build confidence.
- **Challenge Yourself:** Set timed quizzes to improve speed and accuracy.

By making mental math a regular habit, you not only become faster but also develop a deeper appreciation for numbers and their relationships.

Mathematics tricks for fast calculation offer a blend of logic, creativity, and strategy, turning what might seem like a daunting task into an enjoyable mental exercise. Whether you're multiplying numbers, working with percentages, or simply looking to improve your number sense, these techniques can provide both speed and accuracy, empowering you to tackle everyday math challenges with ease.

Frequently Asked Questions

What is a quick trick to multiply any number by 11?

To multiply a number by 11, add each digit to its neighbor and place the sums between the digits. For example, 53×11 : $5 \ (5+3) \ 3 = 583$.

How can I quickly square a two-digit number ending with 5?

For a number ending in 5, like 25, multiply the first digit by itself plus one ($2 \times 3 = 6$) and append 25, resulting in 625.

Is there a fast way to multiply numbers close to 100?

Yes! Subtract each number from 100, multiply the differences, and subtract the sum of differences from 100. For example, 98×97 : Differences are 2 and 3; $2 \times 3 = 6$; $100 - (2+3) = 95$, so answer is 9506.

How can I quickly add a sequence of numbers mentally?

Group numbers to make round figures (like 10, 20, 50), add those first, then add the leftover numbers for faster calculation.

What is a shortcut for multiplying by 5?

Multiply the number by 10 and then divide by 2. For example, 24×5 : $24 \times 10 = 240$; $240 / 2 = 120$.

How do I quickly find 15% of a number?

Find 10% of the number by moving the decimal one place left, then add half of that (5%) to get 15%. For example, 15% of 80: 10% is 8, half of 8 is 4, so total 12.

Can you explain a trick for multiplying two numbers both ending in 1?

For numbers like 21 and 31, multiply the first digits ($2 \times 3 = 6$), then append the product of the last digits ($1 \times 1 = 1$) to get 651.

Additional Resources

Mathematics Tricks for Fast Calculation: Unlocking Efficiency and Accuracy

mathematics tricks for fast calculation have long fascinated educators, students, and professionals alike. In an era where quick decision-making and computational efficiency

are prized, mastering these techniques can significantly enhance numerical fluency and problem-solving speed. Beyond rote memorization or reliance on digital calculators, these strategies tap into patterns, mental shortcuts, and number sense, offering an approachable way to accelerate arithmetic operations. This article delves into a variety of mathematics tricks for fast calculation, examining their principles, practical applications, and potential impact on learning and productivity.

Understanding the Importance of Mathematics Tricks for Fast Calculation

Fast calculation techniques are not merely parlor tricks; they serve as foundational tools in various fields such as finance, engineering, computer science, and everyday life. The ability to perform fast mental math can reduce errors, save time, and build confidence in handling numbers. Moreover, these methods foster deeper numerical understanding by encouraging pattern recognition and strategic thinking.

For instance, a 2019 study published in the *Journal of Educational Psychology* highlighted that students who practiced mental arithmetic strategies improved their problem-solving speed by approximately 25% compared to those relying solely on calculators. This underscores the practical relevance of integrating such mathematics tricks into standard learning curriculums.

Core Principles Behind Fast Calculation Techniques

At the heart of most mathematics tricks for fast calculation is the concept of decomposing complex problems into simpler, more manageable parts. This often involves:

- **Breaking down numbers:** Splitting numbers into sums, differences, or factors that are easier to compute mentally.
- **Leveraging patterns:** Utilizing repeated numerical patterns or properties such as distributive, associative, and commutative laws.
- **Memorizing key benchmarks:** Internalizing squares, cubes, multiplication tables, and common fractions for rapid recall.
- **Using complementary numbers:** Pairing numbers to reach round figures like 10, 100, or 1000 to simplify addition or subtraction.

These principles enable users to approach arithmetic tasks with strategic insight instead of brute force calculation.

Popular Mathematics Tricks for Fast Calculation

Exploring specific fast calculation methods reveals a treasure trove of strategies ranging from simple addition hacks to advanced multiplication shortcuts. The following are some widely recognized techniques that exemplify the diversity and utility of these mathematics tricks.

1. The Trachtenberg System

Developed during World War II, the Trachtenberg system is a mental calculation method designed for rapid multiplication and division. It replaces traditional multiplication tables with simple addition and subtraction steps.

For example, multiplying a number by 11 using Trachtenberg's rule involves adding adjacent digits and placing the sums appropriately, dramatically speeding up the process. This system is especially useful for large numbers and can be learned progressively for increased fluency.

2. Vedic Mathematics

Originating from ancient Indian texts, Vedic mathematics offers a collection of sutras (aphorisms) that simplify calculations. Techniques such as "Vertically and Crosswise" multiplication allow for quick computation of two-digit by two-digit numbers without memorizing long tables.

An example includes multiplying 23 by 12:

- Multiply 2 (from 23) by 1 (from 12): $2 \times 1 = 2$
- Cross-multiply and add: $(2 \times 2) + (3 \times 1) = 4 + 3 = 7$
- Multiply 3 (from 23) by 2 (from 12): $3 \times 2 = 6$

Concatenating these results yields 276 — the product of 23 and 12 — achieved rapidly and without a calculator.

3. The Rule of Nines for Multiplication

Multiplying numbers close to 10, 100, or 1000 can be expedited using the Rule of Nines. For example, to multiply 98 by 97:

- Subtract each from 100: $100 - 98 = 2$; $100 - 97 = 3$
- Subtract crosswise: $98 - 3 = 95$ or $97 - 2 = 95$
- Multiply the deficits: $2 \times 3 = 6$
- Combine results: $9500 + 6 = 9506$

This quick mental model works because of the proximity to base numbers and reduces multiplication complexity significantly.

Advantages and Limitations of Mathematics Tricks for Fast Calculation

While the benefits of these mathematics tricks are compelling, it is essential to balance enthusiasm with critical evaluation.

Advantages

- **Increased Speed and Efficiency:** These tricks reduce dependence on calculators and support faster mental computations.
- **Enhanced Numerical Intuition:** They encourage understanding the structure and relationships within numbers, fostering deeper mathematical insight.
- **Improved Academic Performance:** Students using these methods often demonstrate improved problem-solving skills and confidence.
- **Practical Utility:** Professionals in finance, engineering, and technology benefit from quick calculations in decision-making and error-checking.

Limitations

- **Learning Curve:** Some systems like Trachtenberg or Vedic mathematics require dedicated practice and may initially slow down learners.
- **Context Specificity:** Not all tricks are universally applicable; their effectiveness depends on the problem type.

- **Risk of Overreliance:** Excessive dependence on tricks may hinder understanding of fundamental mathematical concepts if not appropriately balanced.

Integrating Mathematics Tricks into Daily Practice

To maximize the benefits of mathematics tricks for fast calculation, integration into routine learning and practical scenarios is crucial. Professionals and educators recommend the following approaches:

Regular Drills and Practice

Practicing mental math through timed drills or problem sets helps solidify the application of these tricks. For example, setting daily challenges to multiply two-digit numbers using Vedic methods can build speed over time.

Contextual Application

Applying tricks in real-world contexts such as budgeting, shopping, or statistical estimation makes the learning process relevant and reinforces retention.

Balanced Curriculum Integration

Incorporating these techniques alongside traditional calculation methods ensures a comprehensive mathematical foundation. Encouraging students to understand why a trick works fosters analytical thinking rather than mere memorization.

Technological Tools Supporting Fast Calculation Skills

In the digital age, various apps and platforms are designed to teach and reinforce mathematics tricks for fast calculation. Interactive tools provide instant feedback, gamify learning, and tailor difficulty levels.

For instance, platforms like Mathway and Photomath offer step-by-step solutions that can introduce users to mental strategies behind calculations. Meanwhile, specialized apps focusing on Vedic math or the Trachtenberg system provide structured tutorials and practice modules.

However, it is essential to balance technology use with traditional mental exercises to ensure the development of intrinsic calculation abilities.

Mathematics tricks for fast calculation represent a bridge between intuitive numerical understanding and practical computational efficiency. Their adoption can transform how individuals approach numbers, making arithmetic less daunting and more engaging. As these methods continue to gain recognition, their integration into education and professional practice promises to enhance both speed and accuracy in numerical tasks.

Mathematics Tricks For Fast Calculation

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mathematics tricks for fast calculation: Fast Math: Learn the Secrets of Mental Math Tim Ander, 2017-07-18 Think Fast with Vedic Math Secrets and Mental Calculation Tricks! When you read Fast Math, you'll discover Vedic Math Techniques for mastering basic functions: Addition Subtraction Multiplication Division and so much more! With this fascinating guide, you can quickly and easily determine the square roots of perfect square numbers - and perform many other feats of mental gymnastics. These Vedic secrets mean you don't have to memorize mathematical facts anymore. By grasping the inner workings of math structures, you can make sense of all kinds of numbers - without a calculator or a computer! The written addition most of us learn in school relies on simple and slow systems like carry the 1 to get answers. There is an alternative - Vedic math moves at the speed of thought. Instead of summing columns and moving from right to left, Vedic math starts on the left. Add the largest numbers in your head, remember this figure, sum the smaller numbers - and then just total the figures in your head! By holding numbers in your head while calculating others, you strengthen your working/short-term memory. This mental sharpness pays off in all parts of your life - from remembering names to articulating your thoughts more clearly. Don't wait another second to start absorbing and developing these powerful skills. Order your copy of Fast Math today - and create a smarter, sharper mind! It's quick and simple to order - just scroll up the right-hand side of your screen and click the BUY NOW WITH ONE CLICK button.

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wrong approach. Math isn't just boring formulas and pointless calculations, it can actually be a really useful skill. It can help you calculate a discount on the fly, easily multiply big numbers or quickly figure out how much dough packs you'll need to make 50 cookies if one pack will be enough for 20. In this book you'll find many tricks and practical strategies to improve your math skills, learn how to make calculations faster and solve everyday math problems more easily. And don't worry... This isn't your average and boring book on math theory. You'll find helpful, to-the-point tips and tricks that will actually help you speed up and simplify the calculations you do in your everyday life. Here are some practical tricks you'll learn: How To Quickly Multiply Any Number By 3, 4, 5, 6, 9 And 10. Practical Math Strategies That Will Help You Solve Everyday Math Problems More Easily How To Use The Plugging In Numbers (PIN) Technique To Make Calculations Without Any Calculator The Right Way To Calculate Discounts On The Fly And Save More While Shopping Tips And Tricks To Add And Subtract Fractions Faster What Is Trigonometry And How It Can Be Helpful In Physics, Marine Biology, Criminology And Surveying How To Quickly Determine Mean, Median And Standard Deviation In Everyday Life A Complete List Of Conversion Factors To Easily Switch Between Different Units How To Mentally Determine Your Mortgage And Down Payment Amount And Much, Much More Solve Everyday Math Problems More Easily Scroll to the top and select BUY!

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mathematics tricks for fast calculation: Math Tricks R. Clarke, 2018-01-06 Inside this book you'll discover 40 math tricks to make math easy, fast and fun The secret to speed math is all about which technique you use. Knowing this will enable you to do seemingly impossible calculations in your head whilst also being faster than a calculator suitable for kids and adults

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mathematics tricks for fast calculation: Mental Math Abhishek VR, 2019-05-19 Discover the Mental Math Secrets to Become a Human Calculator! Schools taught you a way to do math that works when you have a pen & paper. But the same methods, takes a lot of effort when you have to do math in your head. This is because it uses a lot of your working memory (the short term memory used to complete a mental task). For example, try to mentally multiply $73,201 \times 3$. It might take only a few seconds to multiply the individual digits. But if you multiply right to left the way you learnt in school, you will rely on your working memory. You will use it to recall every single digit you calculate to put it back together and get your final answer. You may even find yourself calculating some digits again because you forgot one of the numbers. The difficulty increases further when you have to multiply larger numbers like 732×323 . You will have to remember numbers across many steps. Mental arithmetic would be a lot easier to do in your head if you didn't have to remember so many numbers. In school, you learnt to write the down numbers as you calculate to free up your

working memory. In mental math, there are many other ways to do the same thing. One of the tricks to free up your working memory is to calculate from left to right instead of right to left. Try multiplying $73,201 \times 3$ from left to right, starting from 7×3 and ending with 1×3 . You will find yourself calling out the answer before you even finish the whole problem. You can use this trick to solve any math problem in the future. But we have just scratched the surface. There are many more tricks inside the book that make doing mental math as easy as reading a comic. Here is a glimpse of what you will be able to master:

- Mentally add large numbers (Example: Add $8739 + 5492$ in your head in seconds)
- Subtract numbers fast. (Example: Mentally subtract $7520 - 4998$ without writing anything down)
- Multiplication tricks to multiply three-digit numbers. (Example: Multiply 323×123 in your head)
- Square large numbers in seconds (Example: Calculate 64×64 faster than a calculator)
- Mentally divide large numbers (Example: Divide 601324 by 73 entirely in your head)
- Quickly check a calculation with 90% accuracy without re-calculating
- Overcome math anxiety
- Cement your mental math skills with bonus weekly training.

This book only has the best techniques used by over 27 mental and Vedic math experts across the world. The techniques in this book are so simple you will wonder why nobody taught you this before. You will be able to master it, even if you have failed math in school. Imagine waking up tomorrow being able to do lightning fast math in your head. Your family & friends will look at you like you are some kind of a genius. Since you do the calculations in your head, you will acquire better mental habits in the process. So you will not just look like a genius. You will actually be one. Buy Now To Become A Human Calculator Every minute you wait to buy this book, is another minute you don't see the benefit of being good with math & numbers. Put the power of mental math to work in your life so you can quickly & easily:

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 Dr. Wasim Akram Mandal, 2025-07-18 Mathematics is often regarded as a challenging subject, yet it forms the foundation of countless aspects of our daily lives. From solving practical problems to understanding the logic behind patterns and numbers, math is an essential skill for students and lifelong learners alike. Instant Math Tricks: Essential Book for Students is crafted to simplify the complexities of math, making it approachable, efficient, and even enjoyable. This book is a comprehensive guide to mastering quick and effective math techniques. It covers a wide range of topics, including addition, subtraction, multiplication, division, fractions, percentages, squares, cubes, and more. Each chapter is packed with innovative tricks, clear explanations, and practical examples designed to help students solve problems faster and with greater confidence. These techniques are not just about speed—they also deepen your understanding of mathematical concepts, making them easier to grasp and apply. The idea behind this book is simple: math doesn't have to be tedious or intimidating. By learning these instant tricks, students can overcome the fear of numbers and unlock their potential to excel in academics and beyond. Whether you're preparing

for exams, handling competitive tests, or simply looking to sharpen your mental math, this book is your companion for turning challenges into achievements. Through practice and application, you'll discover that math isn't just a subject—it's a tool that empowers you to think critically, solve problems, and gain confidence in your abilities. I invite you to dive into this journey of discovery and make math an exciting and rewarding part of your learning experience. Happy exploring, and may this book inspire a lifelong love for the wonders of mathematics!

mathematics tricks for fast calculation: Workbook On Vedic Mathematics, Volume 3

Vijaay V Kulkarni, 2025-07-28 Vedic Maths Workbook - Volume 3 is the third volume in a structured series designed to empower students, especially 6th standard and above, with faster, sharper, and more confident mathematical skills. Authored by Vijaay V. Kulkarni, a seasoned Vedic Maths expert and recipient of international recognition, this book carries forward the foundational techniques introduced in Volumes 1 and 2 and brings learners into more advanced territory of Vedic Mathematics. This volume focuses on deepening student's understanding and application of time-tested mental strategies from ancient Indian mathematical wisdom. The methods are derived from the Vedic Sutras—concise mathematical formulas that simplify even the most complex problems. The book includes hands-on, engaging chapters such as: Advanced Multiplication - applying techniques like Urdhva-Tiryakbhyam (Vertical and Crosswise) for large numbers, Division by Flag Method - a brilliant approach for division, based on the Nikhilam Sutra, Base Division—solving division problems using base values close to 10, 100, 1000, Fractions - simplifying and comparing fractions using unique Vedic tricks, Squaring Methods - rapid techniques for squaring two digit and three-digit numbers near base values. These chapters are 'not theoretical' but are filled with step-by-step examples, student-friendly explanations, and lots of practice exercises. The tone is interactive and motivational, making it suitable for classroom use, tuition, or independent learning. This book is especially helpful for students preparing for school exams, Olympiads, and competitive tests. It not only improves speed and accuracy but also develops mental clarity, focus, and interest in math. Puzzles, fun activities, and assessment checkpoints throughout the book make learning more engaging. Vedic Maths Workbook - Volume 3 is more than just a continuation of the earlier volumes. It is a leap into higher-order mental math, offering students the tools to handle mathematics with confidence, clarity, and creativity. The book celebrates the rich legacy of Indian mathematics and invites learners to embrace a smarter, more intuitive way of working with numbers.

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Tyagi, 2019-11-18 Be it calculating the spare change at your local grocery shop or adding travel expenses, an aptitude for quick calculations always comes in handy. Being fast with numbers is always an added advantage, especially when you need to solve questions in a constrained time limit, such as your college exams or even more importantly, entrance and competitive exams. Calculating quickly is not something that you master overnight, there are tricks that you need to master along with learning time management. That being said, performing calculations within seconds is useful not only for students, but also for professionals, housewives and everyone who wants to learn something new and interesting. GKP's 'Secrets Behind Faster Calculations' by Author Praveen Tyagi is ideal for aspirants of all Government Exams, CAT, GATE, JEE etc. The book has been divided into 10 distinct chapters namely General Tricks, Addition and Subtraction, Multiplication, Squaring, Cubing, Square Root, Cube Root, Division, Percentage and Data Interpretation. All of these contain useful techniques which will assist students in enhancing their calculative ability to the maximum. When applied while practicing with regular study material, the book is going to provide incredible value for students. Features: 10 distinct sections with tips and techniques to do quick calculations Practice Tests to assess learning level Prepared in coherence with the needs of learners and aspirants of various competitive and entrance exams Contents 1. Some Special Tricks (General Tricks) 2. Addition and Subtraction 3. Multiplication 4. Squaring 5. Cubing 6. Square Root 7. Cube Roots 8. Division 9. Percentage 10. Data Interpretation

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