

# Teach Yourself Speed Mathematics: Ultimate Vedic Math Tricks for Simplifications

Mathematics, often perceived as a complex and daunting subject, can be transformed into an engaging and accessible endeavor with the help of Vedic Math. Originating from ancient India, Vedic Math is a collection of rapid mental calculation techniques that empower individuals to solve mathematical problems efficiently and effortlessly. This comprehensive article will guide you through the fundamentals of Vedic Math, unveiling its time-saving tricks for simplifying complex calculations. By mastering these techniques, you can unlock your mathematical potential and conquer numerical challenges with remarkable speed and precision.

## Unlocking the Secrets of Vedic Math

Vedic Math, deeply rooted in ancient Vedic scriptures, is based on 16 sutras or aphorisms that encapsulate the essence of mathematical operations. These sutras provide a systematic approach to solving problems, allowing you to bypass lengthy and complex traditional methods.



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by Summary Genie

★★★★★ 5 out of 5

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1. **Nikhilam Navatashcaramam Dashatah:** All from 9 and last from 10. 2. **Kaandam Daashatah:** Whatever is the last, subtract from 10. 3. **Ekadhikena Purvena:** By one more than the previous one. 4. **Dvi Gujitam:** Multiply by 2. 5. **Tri Gujitam:** Multiply by 3. 6. **Chatur Gujitam:** Multiply by 4. 7. **Urddhva Tiryakbhyam:** Vertically and crosswise. 8. **Parampara Pravartana:** Transpose and apply. 9. **Sankalana Vyayam:** Add and subtract. 10. **Puranapurabhyam:** Old and new. 11. **Chalana Chalana:** Multiplication and division. 12. **Yaavadunam:** Deduct the nearest number. 13. **Vyastya Vyastya:** Separately separately. 14. **Ekanyunena Purvena:** The previous one less by one. 15. **Sopantyadama:** The last two digits become the first two digits. 16. **Anurupye Shunyamanyat:** When the first and last digits of the multiplier are the same, the product ends with zero.

## **Harnessing the Power of Vedic Math for Simplifications**

Vedic Math offers a treasure trove of tricks designed to simplify mathematical problems, transforming complex calculations into manageable steps.

### **1. Multiplication Tricks**

**a) Trailing Zero Trick:** When multiplying two numbers ending in 0, the product will also end in 0. The number of trailing zeros will be the sum of the trailing zeros in both numbers.

**For example:**  $20 \times 30 = 600$  (2 trailing zeros + 1 trailing zero = 3 trailing zeros)

**b) Last Digit Trick:** To multiply a number by 5, double the number and append a zero. To multiply a number by 25, multiply the number by 100 and then divide by 4.

**For example:**  $34 \times 5 = 68$

**c) Vertically and Crosswise Trick:** This trick is used to multiply two-digit numbers. Place the digits of one number vertically and the digits of the other number horizontally. Multiply the corresponding digits and write the product below the line. Add the products diagonally to get the final answer.

**For example:**  $12 \times 23$

1 2 x 2 3 ----- 2 4 1 2 3 6

Final Answer: 276

## 2. Division Tricks

**a) Casting Out 9's Trick:** This trick helps determine if a number is divisible by 9. Add up the digits of the number. If the sum is divisible by 9, the original number is also divisible by 9.

**For example:** 1234

$1 + 2 + 3 + 4 = 10$   $1 + 0 = 1$

Since 1 is not divisible by 9, 1234 is not divisible by 9.

**b) Division by 2 Trick:** To divide a number by 2, simply divide it by 10 and multiply by 5.

**For example:**  $24 \div 2 = 24 \div 10 \times 5 = 120$

### 3. Square and Cube Tricks

**a) Squaring a Two-Digit Number Trick:** To square a two-digit number ending in 5, multiply the first digit by the next consecutive number and append 25 at the end.

**For example:**  $25^2 = 2 \times 3 = 625$

**b) Cubing a Two-Digit Number Trick:** To cube a two-digit number ending in 5, multiply the first digit by the next consecutive number, cube the result, and append 125 at the end.

**For example:**  $15^3 = 1 \times 2 = 2^3 = 8125$

### Real-World Applications of Vedic Math

The practical applications of Vedic Math extend beyond academic settings, empowering individuals to solve real-world numerical problems with remarkable efficiency.

1. **Finance:** Vedic Math simplifies complex financial calculations, such as interest calculations, loan repayments, and investment planning.

2. **Engineering:** Engineers leverage Vedic Math techniques to perform rapid calculations in areas like structural analysis, fluid dynamics, and electrical engineering.

3. **Medicine:** In the medical field, Vedic Math aids in quick and accurate dosage calculations, ensuring patient safety and effective treatment.

4. **Everyday Life:** From calculating discounts to estimating distances, Vedic Math provides a practical edge in everyday situations.

Embracing the empowering techniques of Vedic Math unlocks a world of mathematical simplicity and efficiency. By harnessing its powerful tricks for simplifications, you can conquer complex calculations with remarkable speed and precision. Whether you're a student seeking academic excellence or a professional striving for productivity, Vedic Math empowers you to transform mathematical challenges into opportunities for growth and success. Embrace its ancient wisdom and witness the transformative power of numbers.



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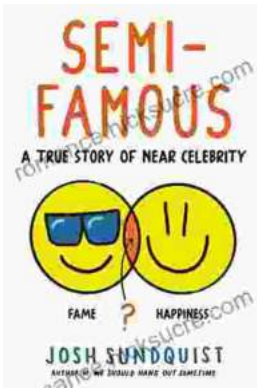
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