

# SHORTCUTS IN MATHEMATICS BY AKHILESH KHARE

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### Unlock Mathematical Proficiency with Shortcuts by Akhilesh Khare

Akhilesh Khare, a renowned mathematics educator, has revolutionized the way students approach complex calculations. His innovative shortcuts have transformed mathematics into a more accessible and enjoyable subject for countless students. Here are some of the most popular shortcuts from Khare's arsenal that can significantly enhance your mathematical abilities:

#### Simplifying Fractions:

- **Khare's Rule:** To simplify a fraction, factor the numerator and denominator into their prime components. Cancel common factors between the two to obtain the simplest form.
- **Example:** Simplify  $(60/140)$ :  $60 = 2^2 \times 3 \times 5$ ,  $140 = 2^2 \times 5 \times 7$ . Cancelling  $2^2$  and  $5$ , we get  $(2 \times 3) / (2 \times 5) = 3/5$ .

#### Solving Quadratic Equations:

- **Half-Angle Tangent Formula:** Use  $(1/2)\tan(\theta/2)$  to express a complex quadratic equation in a simplified form.
- **Example:** Solve  $x^2 - 2x - 3 = 0$ :  $(1/2)\tan(\theta/2) = (1/2)\tan(\theta/2) = x - 1$ . Solving for  $\theta$  gives  $\theta = 60^\circ$ . Therefore,  $x = 1 + (1/2)\tan(30^\circ) = 1 + \sqrt{3}/2$ .

#### Simplifying Roots and Indices:

- **Root Simplification Rule:** When multiplying roots with different indices, combine the indices and retain the original radicand.
- **Example:**  $\sqrt[3]{a^3 \times b^2} = \sqrt[3]{a^3 b^2} = a^{(3/2)} b^{(1/2)}$ .
- **Power Rule:**  $(a/b)^{(m/n)} = (a^m/b^n)^{(1/p)}$ , where p is the least common multiple of m and n.
- **Example:**  $(8/27)^{(2/3)} = (2^3/3^3)^{(1/6)} = (2/3)^{(1/2)}$ .

#### Other Useful Shortcuts:

- **BODMAS Rule:** Use this order of operations – Brackets, Orders, Division, Multiplication, Addition, Subtraction – to simplify expressions correctly.
- **Estimation Techniques:** Round numbers to estimate answers quickly.
- **Factorization Tricks:** Use the difference of squares, sum of cubes, and other factorization formulae to simplify complex expressions.

By incorporating Khare's shortcuts into your mathematical toolkit, you can significantly improve your speed and accuracy. These shortcuts will not only make mathematics easier but also open up new avenues for exploration and problem-solving.

#### Synopsis of Drama Korea 'The First Wife Club' Episode Terakhir

The highly anticipated finale of the popular drama series 'The First Wife Club' has aired, leaving viewers with a bittersweet ending. The episode resolves the complex plotlines and explores the aftermath of the characters' choices.

#### Question 1: What happens to Song Ga-hee and Bang Kwang-nam?

Answer: Ga-hee and Kwang-nam's relationship takes a surprising turn. After realizing that their love is not enough to overcome their differences, they decide to part ways. Kwang-nam disappears, leaving Ga-hee heartbroken but determined to rebuild her life.

#### Question 2: How does Lee Eun-soo cope with her husband's betrayal?

Answer: Eun-soo faces the consequences of her husband's infidelity head-on. She confronts her husband, exposing his lies. Despite the pain and anger, she chooses to forgive him and start afresh. Eun-soo's strength and resilience inspire others.

**Question 3: What becomes of Jang Yoo-ri and Kim Dong-ryoon?**

Answer: Yoo-ri and Dong-ryoon's relationship is tested by Dong-ryoon's financial struggles. Yoo-ri supports her husband through their difficulties, proving that love can overcome adversity. Together, they build a stronger and more connected marriage.

**Question 4: Does Eun-soo find happiness with Park Young-ok?**

Answer: Eun-soo and Young-ok's bond strengthens as they support each other through their personal journeys. However, they realize that their friendship is more important than a romantic relationship. Eun-soo chooses to prioritize her own happiness and independence.

**Question 5: What is the overall message of the finale?**

Answer: The finale of 'The First Wife Club' emphasizes the importance of self-worth, resilience, and forgiveness. The characters learn to accept their past, embrace their present, and strive for a brighter future. The series celebrates the strength and determination of women who overcome adversity and rediscover themselves.

**When I'm with you Durjoy Datta review?** The way Dhiren and Aishwarya's characters are portrayed in the book is just amazing. The thing that makes them amazing is that they don't lose their strength throughout the story, no matter what they face, they don't lose their originality even a bit. I never thought only one book could make him my favourite author.

**What does you were my crush mean?** countable noun. If you have a crush on someone, you are in love with them but do not have a relationship with them. [informal] She had a crush on you, you know. [ + on]

**What are the best lines from Durjoy Datta books?**

**What is the best love story of Durjoy Datta?** If It's Not Forever It's Not Love This is one of the best books by Durjoy Datta, and it was co-written with Nikita Singh. If

It's Not Forever, It's Not Love begins with Deb escaping a bomb blast at Chandni Chowk.

**Does crush mean in love?** Britannica Dictionary definition of CRUSH. 1. [count] a : a strong feeling of romantic love for someone that is usually not expressed and does not last a long time. ? The person who has a crush is usually young or is behaving or feeling like a young person.

**Why is a crush called a crush?** Stamper said that this meaning, which arrived in the late 19th century, developed from the literal sense; the weight of your feelings “become so intense that they feel like they are crushing you,” she said.

**How to make your crush fall in love with you fast?**

**When I Am With You novel summary?** Book overview Aishwarya, at twenty-eight years, would rather be a single mother than trust the 'normal' family structure. In her new start-up, she wants to revolutionize childcare for young woman professionals- this is her ultimate goal. Plus, she's in a hurry to do it all.

**What age should read The Absolutely True Diary of a Part Time Indian?** Bekah I suppose it depends on the maturity of the child, but I think I would wait until they are 13 or 14. It's a great and inspiring story, definitely worth reading. But it's also squarely in the PG-13 range, due to language, mild sexual content, and other grown-up themes (family alcohol use).

**Is I too had a love story worth reading?** Customers find the storyline mind-blowing, honest, and touching. They also say the ending makes the story more significant. Readers describe the emotional impact as beautiful and close to their hearts.

**What is the summary of someone like you by Durjoy Datta?** Book overview It is a contemporary novel that revolves around the lives of five people who are looking for the right path in their lives. The book begins with the story of a girl named Niharika Singh, who considered herself to be ugly until her sister Simran gives her a wonderful makeover.

**The Everything Calorie-Counting Cookbook: Calculate Your Daily Caloric Intake and Fat, Carbs, and Fiber with These 300 Delicious Recipes**

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In today's fast-paced society, it can be challenging to maintain a healthy diet. With so many temptations around us, it's easy to overindulge in unhealthy foods that can lead to weight gain and other health problems. That's where "The Everything Calorie-Counting Cookbook" comes in. This comprehensive guide provides you with the tools and recipes you need to calculate your daily caloric intake and make informed choices about the foods you eat.

### **How does calorie counting work?**

Calorie counting is a method of weight management that involves tracking the number of calories you consume each day. To lose weight, you need to create a calorie deficit by consuming fewer calories than you burn. "The Everything Calorie-Counting Cookbook" provides you with detailed information on how to calculate your daily caloric intake based on your age, weight, height, and activity level.

### **What about fat, carbs, and fiber?**

In addition to calories, it's also important to consider the amount of fat, carbohydrates, and fiber in your diet. These macronutrients play different roles in your body:

- **Fat:** Provides energy and helps your body absorb vitamins.
- **Carbohydrates:** Provide quick energy and are an important source of fiber.
- **Fiber:** Helps you feel full and supports digestion.

"The Everything Calorie-Counting Cookbook" includes detailed nutritional information for each recipe, making it easy to track your intake of these essential nutrients.

### **300 delicious recipes to choose from**

One of the best things about "The Everything Calorie-Counting Cookbook" is its wide variety of delicious recipes. From breakfast to dinner and everything in between, you'll find something to satisfy every craving. Each recipe includes a calorie count and nutritional information, so you can make informed choices about the foods you eat.

### **FAQ**

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- **How many calories should I eat each day?** The number of calories you need depends on several factors, including your age, weight, height, and activity level. Refer to the book for detailed instructions on calculating your daily caloric intake.
- **Do I have to count calories every day?** To achieve your weight loss goals, it's important to be consistent with calorie counting. However, it's okay to take breaks on occasion, such as on special occasions or when you're traveling.
- **What if I don't lose weight after following the plan?** If you're not losing weight after following the plan for several weeks, you may need to adjust your caloric intake or increase your activity level. Consult with a healthcare professional or registered dietitian for personalized advice.

[sinopsis drama korea the first wife club episode terakhir, you were my crush till you said you love me 1st published, the everything calorie counting cookbook calculate your daily caloric intake and fat carbs and daily fiber with these 300 delicious](#)

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