

GRANDPA SIDDIQUI™

WHY MATH RUNS EVERYTHING

A Grandpa Siddiqui Adventure

Book 1 of the Meaning First Learning™ Series



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What Is Meaning First Learning™?

Traditional Education
WHAT → HOW → WHY

Meaning First Learning™
WHY → WHAT → HOW

When students understand *why* knowledge matters, they become excited to learn. This book is your first journey into Meaning First Learning™.

Welcome to the adventure.

— Grandpa Siddiqui

A Letter from Grandpa Siddiqui



A letter from Grandpa Siddiqui.

Dear Reader,

If you are holding this book, I am guessing you might be a little frustrated. Maybe you were sitting at your kitchen table, staring at a worksheet full of numbers and equations, and you finally threw your pencil down and asked the question. You know the one. “Why do I need to learn this?”

Usually, when you ask that, adults give you an answer that isn’t very helpful. They might say, “Because it’s on the test.”

I have a secret for you: I used to ask that exact same question. In fact, when I was your age, I completely hated math. I thought it was just a giant, boring puzzle made of numbers that didn’t matter.

But I was wrong. As I grew older, I became an executive and eventually a grandfather to eight wonderful grandchildren. My work took me on airplanes across the oceans, allowing me to travel to over sixty different countries. I once ate bananas in Brazil, rode a train through India, and stood beneath the tallest buildings in Dubai. I realized I was a lifelong learner, and the more I learned, the more I noticed a hidden language connecting everything on Earth.

I discovered that math was never really about numbers. It was about understanding how the world works. Math is the hidden engine behind your favorite video games, the path a text message takes to reach your best friend, and the reason airplanes don’t fall out of the sky.

This book isn’t a textbook. It is a map. It takes you on a journey through the hidden systems that make modern life possible and shows you why math is one of humanity’s most powerful tools.

So, pick that pencil back up. The adventure is just beginning.

Warmly,

Grandpa Siddiqui

Creator of Meaning First Learning™

? UNIT 1

THE DANGEROUS QUESTION

“Once you know how the world really works, you can never look at it the same way again.”

— Grandpa Siddiqui



Hamza stared at the paper like it was a puzzle missing half its pieces.

Hamza stared at the piece of paper in front of him like it was a puzzle missing half its pieces. He tapped his fingers on the kitchen table. He sighed. Then, he crossed his arms and let his head drop onto his math workbook with a soft thud.

"It's just not fair," Hamza grumbled to no one in particular.

Grandpa Siddiqui walked into the kitchen, holding a steaming mug of tea. He paused, noticing the crumpled paper and the look of absolute defeat on his grandson's face.

"That looks like a battle," Grandpa Siddiqui said gently, pulling out a chair and sitting across from him. "Who is winning? You, or the homework?"

"The homework," Hamza said, sitting up and pushing the paper away. "Grandpa, I just don't get it. I'm never going to use this. When am I ever going to need to know how to divide fractions to buy a toy or play a video game?"

Most adults would have given Hamza a boring answer. They would have said it was because he needed to pass the third grade, or because his teacher said so.

But Grandpa Siddiqui didn't give a boring lecture. Instead, his eyes lit up, and a wide smile spread across his face. He set his tea down and leaned in close, as if he were about to share the biggest secret in the world.



"That's a dangerous question," Grandpa whispered.

"Hamza," Grandpa said, his voice dropping to a whisper. "That's a dangerous question."

 **DID YOU KNOW?**

The word "mathematics" comes from the ancient Greek word mathema, which simply means "that which is learned."

Hamza blinked, suddenly interested. "Dangerous? Why?"

"Because," Grandpa Siddiqui explained, "once you know the real answer, you can never look at the world the same way again. Math isn't just something trapped on that piece of paper. It is the invisible machine running the entire planet."

Grandpa stood up and pointed toward the kitchen counter. "Put your pencil down, Hamza. The adventure begins. Let's start with something simple. Let's start... with a banana."

Grandpa pulled the chair beside Hamza closer and sat down, steam curling up from his tea. "Let me tell you a secret about that worksheet," he said softly. "It is not really about the numbers. The numbers are only a door. Behind the door is everything — why bridges stand up, why music sounds beautiful, why your heart keeps a steady beat."

Hamza frowned. “My teacher never said that.” “Teachers are busy people,” Grandpa smiled. “Sometimes they forget to mention that math is the closest thing we have to a superpower. It lets ordinary people see the hidden rules of the whole universe.”

Hamza looked back down at the fractions on his page. They still looked like fractions. But for the first time, he wondered what door they might open.

GRANDPA'S TRAVEL JOURNAL

On my very first long journey, I landed in a city where I could not read a single sign. I felt lost — until I noticed the numbers. Gate numbers, clock faces, prices, house addresses. They were everywhere, and I understood every one. That was the day I learned that math is a language the whole world already shares.

WORDS TO KNOW

Equation — A math sentence that shows two things are equal, like $2 + 3 = 5$.

Fraction — A way to show part of a whole, like $\frac{1}{2}$ of a pizza.

Pattern — Something that repeats in a predictable way.

WHY THIS MATTERS

Without math:

- ✗ No way to measure the world around us.
- ✗ No way to understand how things connect.
- ✗ No way to build the future.

CAREERS THAT USE THIS

- ▶ Mathematician
- ▶ Teacher
- ▶ Research Scientist

GRANDPA'S CHALLENGE

Look around your room. Find one thing that you think has absolutely nothing to do with math. Keep it in mind as we read the rest of the book and see if you change your mind!



 **TRY IT YOURSELF: Become a Math Detective**

1. Walk through one room of your home.
2. Count five things that were measured or built with numbers.
3. Pick the most surprising one and tell someone why it needs math.

 **WORKBOOK****Unit 1 — The Dangerous Question**

Remember the Story

1. What 'dangerous question' did Hamza ask Grandpa?

2. Why did Grandpa call it a dangerous question?

3. Grandpa says math is the door to what?

Do the Math

1. If Hamza finishes 3 problems a day, how many will he finish in 5 days?

2. Write one number pattern you can find in your home.

Think & Write

1. Finish and explain: 'Once I understood _____, I began to notice _____.'
