

# *Ucmas Competition Practice Paper*

This comprehensive resource provides readers with the tools necessary to perform analysis of various waveforms for use in radar systems. It provides information about how to produce synthetic aperture (SAR) images by giving a tomographic formulation and implementation for SAR imaging. Tracking filter fundamentals, and each parameter associated with the filter and how each affects tracking performance are also presented. Various radar cross section measurement techniques are covered, along with waveform selection analysis through the study of the ambiguity function for each particular waveform from simple linear frequency modulation (LFM) waveforms to more complicated coded waveforms. The text includes the Python tool suite, which allows the reader to analyze and predict radar performance for various scenarios and applications. Also provided are MATLAB® scripts corresponding to the Python tools. The software includes a user-friendly graphical user interface (GUI) that provides visualizations of the concepts being covered. Users have full access to both the Python and MATLAB source code to modify for their application. With examples using the tool suite are given at the end of each chapter, this text gives readers a clear understanding of how important target scattering is in areas of target detection, target tracking, pulse integration, and target discrimination.

What if everything you know about raw talent, hard work, and great performance is wrong? Few, if any, of the people around you are truly great at what they do. But why aren't they? Why don't they manage businesses like Jack Welch or Andy Grove, play golf like Tiger Woods or play the violin like Itzhak Perlman? Asked to explain why a few people truly

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excel, most of us offer one of two answers: hard work or a natural talent. However, scientific evidence doesn't support the notion that specific natural talents make great performers. In one of the most popular Fortune articles in years, Geoff Colvin offered new evidence that top performers in any field - from Tiger Woods and Winston Churchill to Warren Buffett and Jack Welch - are not determined by their inborn talents. Greatness doesn't come from DNA but from practice and perseverance honed over decades. And not just plain old hard work, but a very specific kind of work. The key is how you practice, how you analyze the results of your progress and learn from your mistakes, that enables you to achieve greatness. Now Colvin has expanded his article with much more scientific background and real-life examples. He shows that the skills of business - negotiating deals, evaluating financial statements, and all the rest - obey the principles that lead to greatness, so that anyone can get better at them with the right kind of effort. Even the hardest decisions and interactions can be systematically improved. This new mindset, combined with Colvin's practical advice, will change the way you think about your job and career - and will inspire you to achieve more in all you do.

Improve test scores, master "real world" math, and stop relying on your calculator! Math Made Easy is a fast and simple approach to mental math and quicker calculation. With sections for both mathophobes and mathletes alike, this unique book will transform the way you do math. This guide is filled with practical tricks that will help you: - Calculate tips mentally with ease - Perform complex math problems entirely in your head - Transform seemingly difficult math into simple equations Do you consider yourself bad at math? There is no such thing as a bad student - only a bad teacher! It's time to give yourself another chance by learning a new way to look at math. We start with addition and subtraction to rebuild your

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approach from the ground up. Or are you a math champ? Learn new tricks to do problems even faster and perform calculations in your head that will leave everyone impressed. Are you planning to apply to college in the US? The redesigned SAT will include a no-calculator math section - it's going to be more important than ever to be able to do calculations quickly and effectively on your own. Applying to grad school? Good math skills are a must for the GRE and GMAT. Plus, Math Made Easy is filled with practice questions to make sure you've got each technique down. As Socrates said, "Wisdom begins with wonder." Aren't you curious to see what you are capable of?

Mental Math is a workbook devoted to mastering mental calculation for second grade students. Math researchers concur that the ability of students to make math pictures in their minds of the values and sizes of numbers readies them for learning addition, subtraction, multiplication, and more. This series will show students how to work out math problems in their minds, an important part of math proficiency.

Important computation quick tips and thinking shortcuts are provided. This collection is part of the successful Singapore Math series, and was written in Singapore and adapted from the world-renowned Singapore math curriculum. From here, students will easily progress to the next math level. 64 reproducible pages and an answer key.

Theory and Practice

Learning Mathematics

Fun With Beads

Learning How to Learn

Adventurous Akosua

Think Like A Maths Genius

The magic wand of Vedic Mathematics that makes complex problems simple! Vedic

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Mathematics is an ancient technique consisting of sixteen sutras and sixteen sub-sutras. These sutras are not only important in dealing with simple arithmetic and algebraic concepts but are equally good in solving complex problems of higher algebra, trigonometry, calculus and co-ordinate geometry. In this book, renowned mathematician Rajesh Kumar Thakur lays out the unique Vedic sutras and explains their applicability in an easy-to-understand manner. Competitive examinations today test candidates on their aptitude in algebra, arithmetic, geometry and trigonometry—all of which this book helps to hone. It will make complex problems appear simple—be it partial fraction, integration by parts or differentiation—you will be able to tackle them all easily! Read this book and learn how to solve difficult maths problems in less than 30 seconds!

The world's greatest mental mathematical magician takes us on a spellbinding journey through the wonders of numbers (and more) "Arthur Benjamin . . . joyfully shows you how to make nature's numbers dance." -- Bill Nye (the science guy) The Magic of Math is the math book you wish you had in school. Using a delightful assortment of examples—from ice-cream

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scoops and poker hands to measuring mountains and making magic squares—this book revels in key mathematical fields including arithmetic, algebra, geometry, and calculus, plus Fibonacci numbers, infinity, and, of course, mathematical magic tricks. Known throughout the world as the "mathemagician," Arthur Benjamin mixes mathematics and magic to make the subject fun, attractive, and easy to understand for math fan and math-phobic alike. "A positively joyful exploration of mathematics." -- Publishers Weekly, starred review "Each [trick] is more dazzling than the last." -- Physics World "...profoundly moving..." -Publishers Weekly Nelson Mandela's two great-grandchildren ask their grandmother, Mandela's youngest daughter, 15 questions about their grandad - the global icon of peace and forgiveness who spent 27 years in prison. They learn that he was a freedom fighter who put down his weapons for the sake of peace, and who then became the President of South Africa and a Nobel Peace Prize-winner, and realise that they can continue his legacy in the world today. Seen through a child's perspective, and authored jointly by Nelson Mandela's great-grandchildren and daughter, this amazing story is told as never before to

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celebrate what would have been Nelson's Mandela 100th birthday.

A surprisingly simple way for students to master any subject--based on one of the world's most popular online courses and the bestselling book *A Mind for Numbers* *A Mind for Numbers* and its wildly popular online companion course "Learning How to Learn" have empowered more than two million learners of all ages from around the world to master subjects that they once struggled with. Fans often wish they'd discovered these learning strategies earlier and ask how they can help their kids master these skills as well. Now in this new book for kids and teens, the authors reveal how to make the most of time spent studying. We all have the tools to learn what might not seem to come naturally to us at first--the secret is to understand how the brain works so we can unlock its power. This book explains:

- Why sometimes letting your mind wander is an important part of the learning process
- How to avoid "rut think" in order to think outside the box
- Why having a poor memory can be a good thing
- The value of metaphors in developing understanding
- A simple, yet powerful, way to stop procrastinating

Filled with illustrations, application questions, and

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exercises, this book makes learning easy and fun.

Talent Is Overrated

Fibonacci's Liber Abaci

IB WORLD SCHOOLS YEARBOOK 2019

Third Edition

The Art of Calculating in Your Head

Quicker Maths

***JETSTREAM is a brand new digital-age 6-level course for adult learners. Its carefully balanced pace and challenge offer a learning experience that is fun and motivating and which prepares students to use their English effectively in work and life.***

***Single User e-Book DVD for Teaching Student-Centered Mathematics, Grades K-3 brings John Van de Walle's best-selling professional development series to life and is designed for use by individual educators. The single user e-Book DVD gives kindergarten through grade 3 pre-service and in-service teachers quick and easy access to Teaching Student-Centered Mathematics: Grades K-3 along with interactive tools for teaching and professional development resources. The single user e-Book DVD includes one license,***

*additional materials must be purchased separately. Based on John Van de Walle's leading K-8 mathematics methods textbook, Elementary and Middle School Mathematics, the professional development e-Book series helps teachers develop a deeper understanding of the mathematics they teach and is organized into three grade-band volumes. The interactive e-Books bring the student-centered, problem-based approach to life through embedded classroom videos, author interviews, virtual workshops and more. The e-Books Series is professional development with John Van de Walle, anywhere, anytime! The Single User e-Book DVD includes one license for use by an individual educator. The printed book is sold separately. The grade-band e-Book DVD allows you to click and: Observe lessons in action through video of classrooms See excerpts from John Van de Walle's professional development sessions without leaving the comfort of your home or school Hear John Van de Walle (late) speak about the Big Ideas in every chapter through a series of personal interviews Access tips and*



*activities you can use in your classroom The e-Book DVD series is based on the best-selling Van de Walle Professional Mathematics Series, which features: Numerous problem-based activities in every content chapter are a fantastic resource for in-service teachers. "Big Ideas" provide clear and succinct explanations of the most critical concepts in K-3 mathematics. "Assessment Notes" illustrate how assessment is an integral part of instruction and suggest the most successful assessment strategies. Expanded lessons elaborate on one activity in each chapter, providing techniques for creating step-by-step lesson plans for classroom implementation. NCTM Standards appendices provide information on the content and professional standards. Reproducible blackline masters provide basic tools and copymasters for use in the classroom. Activities at a Glance chart helps quickly Ever find yourself struggling to check a bill or tax on a payslip? The Trachtenberg Speed System provides a course in refining basic mathematics*

*skills to tackle large sums before simplifying to increase concentration and ability in day-to-day arithmetic. The Trachtenberg system has been described as the 'shorthand of mathematics' and only requires the ability to count from one to eleven. Using a series of simplified keys, it allows anyone to master numbers and calculations giving greater speed, ease in handling numbers and increasing accuracy. Jakow Trachtenberg believed that everyone is born with phenomenal abilities to calculate. He devised a set of rules that allows every child to make multiplication, division, addition, subtraction and square-root calculations with unerring accuracy and at remarkable speed. A perfect entry into gaining confidence with numbers. This Anthology "LIFETIME GIFT" is a blissful Collections of Poems, Short Stories, Article, Diary writing and Quotes Penned in Tamil and English by our young Talented and Lovely Authors from various Cities. Friendship is a Gold coin which is most valuable one in everyone's life. Friends make Our life more beautiful, they motivate us, guide*

**us, support us, care us, wipe our tears and solve our problems, fight for us, don't leave us alone, make us smile, make us happy, love us unconditionally and make memories to cherish.**

**Friendship is not a big thing it's a million little things, Endless memories are created with life long Friends. In that way "LIFETIME GIFT" brings into notice about our Crazy and funny friends we got in our life. The laughs, silly fights, outings, Sharing foods, Loving And Caring each other, teasing, making fun, unwanted irritatings, solving problems, Stupid promises, making memories that remains forever. Friendship is a most special and pure relationship and friends become our family who always be with us whatever happens. In simple friends are God's Gifts. Life goes better with friends. This book has been compiled by MS. BLESSY RANI JENEFER.S & MR. TAMIL EZHILAN.K.C. they both compiled several books together. Distance may separate friends but never by heart. Friends are like stars you don't see them, but they're always there. Don't miss the precious lifetime gift given by God.**

***Keep it safe and thank your friends for being with you.***

***Mental Maths***

***A Quick and Easy Guide to Mental Math and Faster Calculation***

***The Children's Story***

***The Month that Changed the World***

***Analysis I***

***Teaching Student-Centered Mathematics - Grades K-3***

This handy guide will take abacus users from beginner to master level in a very short time. Though the Japanese abacus may appear mysterious or even primitive, this intriguing tool is capable of amazing speed and accuracy. It is still widely used throughout the shop and markets of Asia and its popularity shows no sign of decline. This volume is designed for the student desiring a greater understanding of the abacus and its calculative functions. The text provides thorough explanations of the advanced operations involving negative numbers, decimals, different units of measurement, and square roots. Diagrams illustrate bead manipulation, and numerous exercises provide ample practice. Concise and easy-to-follow, this book will improve your abacus skills and help you perform calculations with greater efficiency and precision.

The Magic of MathSolving for x and Figuring Out WhyBasic Books

It was a simple incident in the life of James Clavell—a talk with his young daughter just home from school—that inspired this chilling tale of what could happen in twenty-five quietly devastating minutes. He writes, "The Children's Story came into being that day. It was then that I really realized how vulnerable my child's mind was—any mind, for that matter—under controlled circumstances. Normally I write and rewrite and re-rewrite, but this story came quickly—almost by itself. Barely three words were changed. It

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pleases me greatly because I kept asking the questions... Questions like, What's the use of 'I pledge allegiance' without understanding? Like Why is it so easy to divert thoughts? Like What is freedom? and Why is so hard to explain? The Children's Story keeps asking me all sorts of questions I cannot answer. Perhaps you can—then your child will...."

Active Analysis combines two of Maria Knebel's most important books, *On Active Analysis of the Play and the Role and The Word in the Actor's Creative Work*, in a single edition conceived and edited by one of Knebel's most famous students, the renowned theatre and film director, Anatoli Vassiliev. This is the first English translation of an important and authoritative fragment of the great Stanislavski jigsaw. A landmark publication. This book is an indispensable resource for professional directors, student directors, actors and researchers interested in Stanislavski, directing, rehearsal methods and theatre studies more generally.

Jetstream - Pre-Intermediate - Student Book and Workbook Split Edition

Rapid Calculations

The Minds of Boys

A Novel

Math on the Menu

How to Succeed in School Without Spending All Your Time

Studying; A Guide for Kids and Teens

**For centuries, experts have argued that learning was about memorizing information: You're supposed to study facts, dates, and details; burn them into your memory; and then apply that knowledge at opportune times. But this approach to learning isn't nearly enough for the world that we live in today, and in Learn Better journalist and education researcher Ulrich Boser demonstrates that how we learn can matter just as much as what we**

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learn. In this brilliantly researched book, Boser maps out the new science of learning, showing how simple techniques like comprehension check-ins and making material personally relatable can help people gain expertise in dramatically better ways. He covers six key steps to help you "learn how to learn," all illuminated with fascinating stories like how Jackson Pollock developed his unique painting style and why an ancient Japanese counting device allows kids to do math at superhuman speeds. Boser's witty, engaging writing makes this book feel like a guilty pleasure, not homework. Learn Better will revolutionize the way students and society alike approach learning and makes the case that being smart is not an innate ability--learning is a skill everyone can master. With Boser as your guide, you will be able to fully capitalize on your brain's remarkable ability to gain new skills and open up a whole new world of possibilities. Michael Gurian's blockbuster bestseller *The Wonder of Boys* is the bible for mothers, fathers, and educators on how to understand and raise boys. It has sold over 400,000 copies, been translated into 17 languages, and sells over 25,000 every year, which is more than any other book on boys in history. To follow up on this first book, which launched the boy's movement, he has now written this revolutionary new book which confronts what he and a lot of other parents and teachers in this country truly believe to

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be a "boy's crisis". Here are the facts: Boys today are simply not learning as well as girls Boys receive 70% of the Ds and Fs given all students Boys cause 90% of classroom discipline problems 80% of all high school dropouts are boys Millions of American boys are on Ritalin and other mind-bending control drugs Only 40% of college students are boys And three out of four learning disabled students are boys So what can we do? Gurian has the answer in this enormously fascinating and practical book which shows parents and teachers how to help boys overcome their current classroom obstacles by helping to create the proper learning environment, understand how to help boys work with their unique natural gifts, nurture and expand every bit of their potential, and enabling them to succeed in life the way they ought to. Gurian presents a whole new way of solving the problem based on the success of his program in schools across the country, the latest research and application of neurobiological research on how boys' brains actually work and how they can learn very well if they're properly taught. Anyone who cares about the future of our boys must read this book.

The second installment in The Wolf Chronicles finds Kaala struggling with the consequences of forming the first mixed wolf-human pack. This is part one of a two-volume book on real analysis and is intended for senior undergraduate students of mathematics who

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have already been exposed to calculus. The emphasis is on rigour and foundations of analysis. Beginning with the construction of the number systems and set theory, the book discusses the basics of analysis (limits, series, continuity, differentiation, Riemann integration), through to power series, several variable calculus and Fourier analysis, and then finally the Lebesgue integral. These are almost entirely set in the concrete setting of the real line and Euclidean spaces, although there is some material on abstract metric and topological spaces. The book also has appendices on mathematical logic and the decimal system. The entire text (omitting some less central topics) can be taught in two quarters of 25–30 lectures each. The course material is deeply intertwined with the exercises, as it is intended that the student actively learn the material (and practice thinking and writing rigorously) by proving several of the key results in the theory.

**Saving Our Sons From Falling Behind in School and Life**

**The Trachtenberg Speed System of Basic Mathematics**

**The Official Guide to Schools Offering the**

**Tailoring Books Zarapkar System Cutting Strategies and Process Skills to Develop Mental Calculation**

A compilation of poetry, this is Arayna Saxena's debut



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book. These poems explore the ideas of peace, self-love, memories, morality, optimism, recovery, faith, nature, sentiments, and individuality. Each carefully including a significant message for its reader.

Several animal friends begin the day together with breakfast and spend time playing outdoors, in a book featuring rhyming text. On board pages.

Organized for quick and accurate coding, HCPCS Level II 2019 Professional Edition codebook includes the most current Healthcare Common Procedure Coding System (HCPCS) codes and regulations, which are essential references needed for accurate medical billing and maximum permissible reimbursement. This professional edition includes such features as Netter's Anatomy illustrations, dental codes, and Ambulatory Surgical Center (ASC) payment payment and status indicators.

Features and Benefits

- \* Full-color Netter's Anatomy illustrations clarify complex anatomic information and how it affects coding.
- \* At-a-glance code listings and distinctive symbols identify all new, revised, reinstated and deleted codes for 2019.
- \* The American Hospital Association Coding Clinic® for HCPCS citations provides sources for information about specific codes and their usage.
- \* Convenient spiral binding provides easy access in practice settings.
- \* Quantity feature highlights units of service allowable per patient, per day, as listed in the Medically Unlikely Edits (MUEs) for enhanced accuracy on claims.
- \* Drug code annotations identify brand-name drugs as well as drugs that appear on the

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National Drug Class (NDC) directory and other Food and Drug Administration (FDA) approved drugs. \* Color-coded Table of Drugs makes it easier to find specific drug information. \* Durable medical equipment, prosthetics, orthotics, and supplies (DMEPOS) indicators clearly identify supplies to report to durable medical third-party payers. \* Ambulatory Surgery Center (ASC) payment and status indicators show which codes are payable in the Hospital Outpatient Prospective Payment System. \* American Dental Association (ADA) Current Dental Terminology code sets offer access to all dental codes in one place. \* Jurisdiction symbols show the appropriate contractor to be billed for suppliers submitting claims to Medicare contractors, Part B carriers and Medicare administrative contractors for DMEPOS services. \* Special coverage information provides alerts when codes have specific coverage instructions, are not valid or covered by Medicare or may be paid at the carrier's discretion. \* Age/Sex edits identify codes for use only with patients of a specific age or sex.

**OVERTAKEN ONLINE.** The world's first FPS VR-MMORPG with 100% immersion. Reminiscent of classics like Doom and Dead Space, but with RPG-elements that enable players to level up and develop skills - and sprinkled with a pinch of magic. The 33-year old game designer Dex Walsh spends an entire year devoured by sorrow after the death of his wife. As a last-ditch effort to regain his joy, he sells everything and joins Overtaken Online. Expecting to spawn in a noob-friendly area with

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guidance from his personal assistant, he instead finds himself naked and alone in a dark prison cell rapidly filling with gas. Under-leveled and with no idea how to escape, he quickly learns no-one wants him alive in this godforsaken place... Strap on your ammo belts, reload your weapons, and join this struggling Battle-Marine as he blasts through waves of demonic aliens while rescuing prisoners and increasing his power. Beware! This story contains: - Blood and guts - Foul language! - Notifications / pop-ups / inventory management - No sex / No harem

The Magic of Math

Active Analysis

Introduction to Radar Using Python and MATLAB

The International Sugar Journal

Mastering the Skills for Success in Life, Business, and School, Or How to Become an Expert in Just about Anything

Forge Your Future

*Providing plenty of opportunities to improve KS2 mathematical skills, this Maths activity book offers lots of mental maths skills practice and is perfect for use at home. Tailored towards Key Stage 2, this Mental Maths activity book provides a fun way to test maths understanding and improve various maths skills.*

*Included in this book: \* Progress charts to help children track progress \* Parental notes to support learning at home \* Weekly tests to improve understanding and retention*

*In 1990-91, 20 countries (Brazil, Canada, China, England, France, Hungary, Ireland, Israel, Italy, Jordan, Korea, Mozambique, Portugal, Scotland, Slovenia, Soviet Union, Spain, Switzerland, Taiwan, and the United States) surveyed the*

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*mathematics and science performance of 13-year-old students (and 14 countries also assessed 9-year-olds in the same subjects) as part of the second International Assessment of Educational Progress (IAEP) Project. While recognizing the fundamental differences from country to country, the participants assembled tests that focus on the common elements of their curriculums, and in order to form the contexts for interpreting the student achievement data, they added sets of questions about students' home background and classroom experiences and the characteristics of the schools they attended. Results are reported in six chapters that discuss the following: (1) the mathematics performance of 13-year-olds; (2) results organized around topics featured in the curriculum; (3) results reporting students' and administrators' perceptions of teaching practices and their relationship to student performance; (4) information about the backgrounds of students and how they spend their time outside of school; (5) information about physical, demographic, and socioeconomic characteristics and the educational systems of the participating countries; and (6) the mathematics performance of 9-year-olds. Other sections present highlights of the findings discussed in detail in the main chapters, information about the participating countries, a procedural appendix discussing the research methods used by the countries, and a data appendix providing tables of results reported in the main chapters. (MDH)*

*Students help the Rosada family start a Mexican restaurant. Planning the menu, determining different combinations of ingredients, analyzing costs, setting prices, expanding into combination plates, and arranging tables and chairs in a new location, puts math learning in a real-world, multicultural, and delicious context.*

*Dedicating a chapter to every day of July 1914, the author*

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*retraces the actions that led to World War I, beginning with the assassination of Archduke Franz Ferdinand and following leaders of the time as they escalated the crisis.*

*Math Made Easy*

*Solving for  $x$  and Figuring Out Why*

*Makers of Mathematics*

*Advanced Vedic Mathematics*

*A Translation into Modern English of Leonardo Pisano's Book of Calculation*

*Decimals & Fractions*

On the way to the market Akosua and her grandmother make a new friend and share some important tips about keeping the country clean. The Adventurous Akosua series of books addresses vital social issues by telling interesting stories that take place in modern-day Ghana. With Akosua, every day is an adventure!

First published in 1202, Fibonacci's Liber Abaci was one of the most important books on mathematics in the Middle Ages, introducing Arabic numerals and methods throughout Europe. This is the first translation into a modern European language, of interest not only to historians of science but also to all mathematicians and mathematics teachers interested in the origins of their methods. Did you know that it's easier to add and subtract from left to right, rather than the other way round? And that you can be taught to square a three-digit number in seconds? In Think Like A Maths Genius, two mathematicians offer tips and tricks for doing tricky maths

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the easy way. With their help, you can learn how to perform lightning calculations in your head, discover methods of incredible memorisation and other feats of mental agility. Learn maths secrets for the real world, from adding up your shopping and calculating a restaurant tip, to figuring out gambling odds (or how much you've won) and how to solve sudoku faster.

A Collection of Stories

The Longest Race

Secrets of the Wolves

Hey! Wake Up!

Lifetime Gift

Advanced Abacus