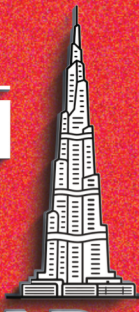


**KENKEN
INDIA**

INTERNATIONAL **KENKEN MATH PUZZLE OLYMPIAD**



**INVITING YOUR SCHOOL STUDENTS
TO PARTICIPATE IN THE
WORLD'S LARGEST MATH
PUZZLE CHAMPIONSHIP**



**Opportunity for Your Students to Become
The Next World Champion**



www.kenkenpuzzles.in

WHAT IS KENKEN?

KenKen is a grid-based arithmetic logic puzzle that employs sophisticated puzzle technology and basic math operations to provide an exciting, unparalleled experience for puzzlers of all ages, while also developing logic, critical thinking, and problem-solving skills in students.

"Ken" means "wisdom" or "Cleverness" in Japanese, so **KENKEN is "Wisdom Squared" or "Cleverness Squared".**

5+		3+
2		
4+	3+	
		3
		3

HISTORY OF KENKEN

KenKen was developed by acclaimed Japanese mathematics instructor **Tetsuya Miyamoto** in 2004. His goal was to improve his students' math and logic skills in an easy and fun way.

So he developed a maths puzzle that would be understandable yet challenging for any student. Most importantly, he wanted to puzzle to encourage independent thinking, emphasizing trial and error, concentration, and perseverance.

In 2008, Nextoy LLC brought KenKen to the United States of America. As its popularity grew, KenKen appeared in the New York Times, Chicago Tribune, The Times (London), Scholastic classroom magazines, and more than 100 other national, U.S. Publications. Simultaneously, it is utilized by an ever-growing network of teachers worldwide who praise its academic value.



"Teaching without teaching."

A core philosophy of Miyamoto's classroom — silence, self-reliance, and discovery without direct instruction.

Tetsuya Miyamoto, Founder of KenKen Math Puzzles



Are KenKen Puzzles the Future of Logic-Based Games?

THE NEW YORKER 

Scan the QR Code to watch the video on **Youtube** 



KenKen: Happiness Through Math

Talks at Google 
Where great minds meet.

Scan the QR Code to watch the video on **Youtube** 

BENEFITS OF KENKEN

Problem Solving & Critical Thinking

The process of solving a KenKen puzzle enhances one's ability to solve problems because it teaches students to logically assess all options and work through the problem efficiently.

Deduction & Reasoning Skills

KenKen is a wonderful math enrichment activity for students as the puzzle integrates logic, arithmetic, collaboration, and deductive reasoning skills.

Perseverance

At some point, all students will have trouble with a KenKen. This simple act of "sticking with it" until one finds the solution, encourages perseverance and develops confidence in the students' ability to conquer any problem.

Arithmetic

To solve a KenKen, each student must perform arithmetic operations through mental math. The act of solving enables students (and adults) to become more proficient in arithmetic skills.

Concentration

KenKen encourages students to concentrate and remain focused. Students use the power of observation to catch mistakes and determine which part of the puzzle is the right place to start and how to solve it.

Self-Confidence

Each KenKen provides its own challenge, which teaches children to enjoy the process of challenging the brain. KenKen enables puzzlers to become more confident in their ability to work through problems of all kinds.

KENKEN INTERNATIONAL CHAMPIONSHIP

Each year, the KenKen® Puzzle Company sponsors an International tournament that brings together the best KenKen players from around the globe to compete for the title of International KenKen Champion! **The students can participate in the KenKen Championship under either of the two categories, set according to their age.**



 (Delta)
Class 3 to 5

 (Kappa)
Class 6 to 9



At the KenKen India Level Championship Rounds, the students will be given 30 minutes to solve 6 puzzles. The sizes and the difficulty of the puzzles will depend on the Age Group category they belong to. The Rounds will be held at several stages, with the students qualifying in one round being eligible in the next round. The Rounds to be held in KenKen India Championships are:



School Round



City Round



State Round



National Round



International Round

“In every solved KenKen puzzle, a child gains not just math skills but the ability to think logically and systemically”

Tetsuya Miyamoto
Founder of KenKen Puzzles

PRIZES & RECOGNITION

SCHOOL ROUND

Certificates will be awarded for Clearing School Round

CITY ROUND

Bronze Medal & Certificate for Clearing City Round

STATE ROUND

Silver Medal & Certificate for Clearing State Round

NATIONAL ROUND

Below Prizes are for Winners in Both Categories

CHAMPION
3-Day Paid Trip to Dubai* + Trophy + Certificate

FIRST RUNNER UP
₹15,000 Cash Reward + Trophy + Certificate ★

SECOND RUNNER UP
₹10,000 Cash Reward + Trophy + Certificate

THIRD RUNNER UP
Trophies for Next Seven Top Performers


GOLD MEDAL
Medals will be Awarded to Merit Winners



*Terms & Conditions Apply

QUESTION PATTERN FOR ALL ROUNDS

During the KenKen Championships for students participating in the various categories during the level-wise tournaments, students will be asked to solve the following in the given time:


 (Delta)
Class 3 to 5

School Round: 4 Puzzles (30 Mins) 3x3 / 4x4 Addition, Subtraction

City Round: 6 Puzzles (30 Mins) 4x4 / 5x5 Addition, Subtraction, Multiplication

State Round: 6 Puzzles (30 Mins) 4x4 / 5x5 All Operators

National Round: 6 Puzzles (30 Mins) Upto 5x5 All Operators

 (Kappa)
Class 6 to 9

School Round: 4 Puzzles (30 Mins) 4x4 / 5x5 All Operators

City Round: 6 Puzzles (30 Mins) 5x5 / 6x6 All Operators

State Round: 6 Puzzles (30 Mins) 5x5 / 6x6 All Operators


National Round: 6 Puzzles (30 Mins) Upto 6x6 All Operators


HOW TO SOLVE KENKEN PUZZLES ?

KenKen's rules are straightforward:


1. Fill each square cell in the puzzle with a **number** between **1 and the size of the grid**. For example, in a **4x4** grid puzzle, use the numbers **1, 2, 3 and 4**.
2. Use **each number exactly once** in **each row and each column**.
3. The **numbers** in each "**cage**" (indicated by the **heavy lines**) **must combine - in any order - to produce the cage's target number using the indicated math operation**. Numbers may be **repeated** within a cage as long as Rule No. 2 isn't violated.
4. No guessing is required. Each puzzle can be solved completely using only logical deduction. Harder puzzles require more complex deductions.

That's all you need to know. The rest is just logical deduction derived from those rules.

 **TIP OF THE DAY**

WATCH HOW TO SOLVE KENKEN PUZZLES ON 

Through this *Youtube* Playlist, you can access **22 videos** on how to solve *KenKen Math Puzzles!*



SCAN THE QR Code TO Learn How to Play KenKen

SOLVING TECHNIQUES

1 Here is a **sample puzzle** that we will use to illustrate solving technique:

2÷		7+	4
1-	3-		2-
		4x	
1-			

2 Each cage in a KenKen contains a **target number** and most contain an **operator**. If you see a **single-cell cage with just a number and no operator**, it means the **value in that cell is the target number**.

Such single-cell cages work like given in Sudoku puzzles. You won't see this in every puzzle, but when you do see one, you should start there. In this puzzle, we can **immediately place a 4 in the upper right cell**.

2÷		7+	4 4
1-	3-		2-
		4x	
1-			

3 Whenever we place a number, this **narrows down the possibilities** for other cells, so we want to look for that. In this puzzle, we know that the **7+ cage in the third column** must contain **3 and 4**, since that is the **only possibility that adds to 7**. Given the **4 that we just placed**, combined with the rule that we use each number exactly once in each row and each column, we can now tell **which of the cage's cell contains a 3 and which contains a 4**.

2÷		7+	4 4
1-	3-	3	2-
		4	
1-		4x	

4 As we can **deduce**, the **solution for the third column** (in the **4x cage**) is either **4x1x1** or **2x2x1**. The first one i.e. **4x1x1 cannot be used** as the **number 4** will be repeated through the **3rd and 4th column**. We can confidently state that the **two empty cells in the third column must contain 1 and 2**, but we **don't know the order**. However, given that information, we can place a **2 in the lower right cell**, as that's the **only box remaining**, to make the **cage's product to be 4**. Also the only way we can **arrange 2x1x2** is to **write both the 2's diagonally and place the 1 in the middle of it**.

2÷		7+	4 4
1-	3-	4	2-
		4x	
1-		2	
		1	2

5 For **more complex deductions**, it can be **useful to take notes in the puzzle**.
 In the **2÷ cage in the upper left**, there are only **two possibilities** - either use **2÷1** or to use **4÷2**.
 In this case, **4÷2 is excluded** because the **3 and 4 are in the first row already**, so we can deduce that two cells contain **1 and 2** (in an unknown order).
 Since knowing this doesn't let us place any additional numbers immediately, we can **use notes/small rough work** to help us remember it for future use.

7 Let's now focus on the **2- cage on the right of the puzzle**. The solutions it can have are **4-2** and **3-1**.
 As we can clearly see, **both the numbers 4 and 2 have already been used in that column**. Hence the only solution left is **3-1** and the **arrangement is also clear to us**: place **3 at the top** and **1 at the bottom**.

9 Lastly, we can see that the **only remaining cage to solve** is the **1- Cage (Left)** and the possible answers are **4-3, 3-2** and **2-1**. But to avoid **repetition** with **1 and 4** which are **already present** in the **1st column**, we can finalise the answer as **3-2**.
 And the **arrangement is quite simple**: just notice in the **2nd Row** - the numbers **1,4,3** are already present. So in that, the **only number remaining** is **2**.
Similar in the 3rd Row - the **only number left** to filled up is **3**. Hence the **arrangement** can be **2 on top** and **3 on the bottom**.
And now we've successfully solved this 4x4 KenKen Math Puzzle!

6 Let's now focus on the **3- cage in the middle of the puzzle**. The only solution it can have is **4-1**.
 As to how arrange it, **once we spot** where the **4 is written (Inside the 7+ cage)**, we can **easily solve this cage** by writing **1 in the top cell** and **4 in the bottom cell**.

8 Now we are coming towards the end of puzzle solving challenge. The **Bottom 1- Cage** has **multiple solutions** i.e. **4-3, 3-2** and **2-1**. But as is **apparent** from below, the **numbers 1 and 2 can't be used to avoid repetition**. Hence the **only solution** left is **4-3**. And keeping the **3- cage (Middle)** in mind, the **arrangement** for the **1- cage** will be **4 to the left** and **3 to the right**.

And using the same strategy, we can finalise the arrangement of the **Top 2÷ Cage** as **1 to the left** and **2 on the right** to avoid repeating 1 with the **3- Cage (Middle)**.

TIP OF THE DAY

Remember: This is just one way to solve the puzzle—there can be many!

Since this was an **easy puzzle**, it only took **9 simple steps** to finish. As puzzles get **harder**, they might take more **time** and **brainpower**. That's okay!

The most important thing is to **keep trying** and **not give up**. Every puzzle helps you become **sharper** and more **confident**, even if it takes a little longer to solve.

MOCK PUZZLES

3X3 PUZZLES

1-		8+
7+		

2-		5+
1-		
3	1-	

3x		6x
6x	2	
		1

6x		3÷
3÷	2÷	
		2

3÷		4x
6x		
	3x	

2÷	6x	1
		6x
3x		

4X4 PUZZLES

3-		2-	9+
3	5+		
9+			
		3-	

12x	1	1-	
	1-	2÷	
		1	5+
2	7+		

24x	2÷		2-
		3+	
4+			9+
3-			

6+	3+		8+
	4+		
4+		8+	
	7+		

3	2÷		12x
2÷	2x		
	12x	1	
		6x	

5X5 PUZZLES

7+		3	7+	
7+	8+			3+
	11+	6+	13+	
	3+		7+	

1-		4-		2
6+		9+		4-
	1-		2-	
3-	6+			1-
	3+		3	

2÷		15x	2-	
12+	2			3+
	12x		2-	
		2	15+	
15x				

6+			40x	
3-		60x		1-
2-				
	10x		4-	
2÷			1-	

PRESTIGIOUS SCHOOLS ASSOCIATED WITH KENKEN

ANDHRA PRADESH

KenKen A. P Model School - Slr
Care Public School-2
Cbit School - Nrt
Chaitanya Bharathi Eng. Med. School - Slr-2019
Deepthi English Medium School - Slr
Govt High School - Slr
Hindu School - Nrt
I Grow International School - Nrt
Int-delhi Public School Vskp-2019
K.a.n.m.h School - Slr-2019
Kasturba Gandhi School - Slr-2019
Lions Club Em School -slr-2019
M.E School -saluru-2019
Modern English Medium School- Cpt
Modern Stellar- Cpt
Municipal High School, Dabbi Veedhi -slr
Navodaya Atchuta Rama Public School - Slr-2019
Oxford School - Rvvpd
Oxford School-pn-nrt
R C M Saint Therissa High School - Slr
Ravindra Bharathi School - Slr-2019
Siddhartha School - Nrt
Sindhu High School - Nrt
Sri Sai Surya Public School- Saluru
Sri Vidyanikethan 2 - Slr
St. Joseph's High School-nrt
Trisul Ramana School - Slr-201

DAMAN

Shemford Futuristic School
Vaatsalya School

GOA

Bhatikar High School Madg
Fatima Convent High School
Government High School Sadolxem Canacona
Mustifund High School Bamb
New Educational Institute
Presentation Convent High School Madgoan
Rosary High School Nave
Saviour of The World High School Lout
School of Symbiosis
Shree Damodar Vidyalyaya English School Madg
Shri Katyani Baneshwar Vidhyalaya Cana
St. Mary High School Ponda
St.anthon's High School Veroda
St.joseph High School Shir
The New Education Institute Curc

GUJARAT

Alok Public School
Anand International Public School
Anand Vidya Vihar School Vadodara
A-one School Ahmedabad
D.R Amin Memorial School Vadodara
Golden Apple School
Happy Child International School
IIRA International School Vadodara
Mahatma Gandhi Primary School
Marothia English Medium School Dungra Vapi
Nachiketa Schooling System Rajkot
Panchamrut International School
Prabhat Scholar's Academy
S.b.vakil English Primary School
Sabri Vidyalyaya Patod
Sagar International School
Shivprakash Memorial School
Shree Krishna International School
Shree Swaminarayan English Medium School
Shri L.G Haria Multipurpose School
Shrimati L.R.H. Patel Pra. Shala
St. Mary School Dahod
Tejas Vidyalyaya
The Mother's School
Upasana Lions English Medium School
Avalon World School Waghodia
Podar World School Sherkhi
Akshar Public School
Podar World School, Sama
American School Of Baroda
Laxmi International School, Sarigam
Shree Prabhudharshan Vidhya Sankul

The Royal School
Panchshil School
Darshan English Medium School
Unadkat Academy
Grin Apple Public School
Amrutam International School
Rachana School, Ahmedabad
Xavier High School, Hansol
Best English School
Bright School Ahmedabad
Pinnacle Public School
Maharaja Agrasen Public School Noon Eng.
Sri Sri Ravishankar Vidhya Mandir
A-One Xavier'S School
Mount Literia Zee School
Vasu International School
Shaleen Vidyalaya
Vikas Prathmik Shala
VI Patel English School Ahmedabad
Excellent English School

HARYANA

Delhi Public School, Karnal
Dyal Singh Public School

MAHARASHTRA

US Ostwal English Academy
St. Francis School (Cisce)
St. Anne'S High School, Borivali (W)
Holy Cross Convent School
NCT Convent High School
St. Teresa'S Convent Higher Sec School, Jalgaon
Rustomjje International School, Jalgaon
Kids Gurukul International School Jalgaon
N.L. Dalmia High School
Sardar Vallabhbbhai Patel Vidyalaya
St. Xavier'S High School
Boys Town Public School
Dawn Breakers School
Dr. Pillai Global Academy (tha)
Holy Cross Convent High School Thane (W)
J B Vachha High School
Kilbil St. Joseph High School
Madhusudhan Global School
Mnr School Of Excellence
Navarachana English Medium School
New Horizon Public School, Airoli
Poorna Prajna High School
Smt Savitridevi Thirani Vidyamandir
Sadhu Vaswani International School
Shankara Vidyalyaya Bhavan School
Swami Vivekanand School
The Little Flower High School
Thirani College
Vidya Prabodhini Prashala Cbse
VNS Mandal English Medium School
Ashoka Global Academy
Ashoka Universal School
Don Bosco School
Espalier Heritage School Nashik
Horizon Academy Nashik (ICSE)
Kilbil St. Joseph High School Nashik
S.M. Shetty International School & Junior College
Pawar Public School, Chandivali
Holy Family High School & Junior College
S.V.P.T.S Saraswati Vidyalyaya
A. M. NAIK School - Mumbai
Divine Child Senior Secondary School, CBSE -
Andheri Mumbai

ODISHA

D.a.v. Public School, Puri Road, All Branches
Deepika English Medium School Rourkela
Delhi Public School - Rourkela
Dm Public School, Bhubaneswar
Dr. A.N.K Dav Public School, Rourkela
Gouri Shankar Residential English Medium School
Gyanajyoti Public School Rourkela
Ispat English Medium School
Jupiter Public School, Bhubaneswar
Kendriya Vidyalaya No. 1, Bhubaneswar
Kendriya Vidyalaya Rourkela
Loyola School Bhubaneswar

Mother's Public School, Bhubaneswar
Ruchika High School, Bhubaneswar
Shree Krishna International Bhubaneswar
St. Xavier's High School, Samantarapur
Stewart School, Bhubaneswar
Venkateswar English Medium School,
Young Phoenix Public School, Bhubaneswar

PUNJAB

Aksips125 Sunny Enclave Kharar
Angel Heart Convent School
British Olivia School Jalandhar
C.l.aggarwal D.a.v.model School
Divine Public School
Gd Goenka Public School Kapurthala
Gems Cambridge International School
Indo-swiss Int. Convent School
Mount Carmel School
Paragon Sen Sec School Sec 71,mohali
Police Dav Public School
Sainik School Kapurthala
Seth Hukam Chand S.d Public School
Tagore Maodel School,nakodar
The Millenium School
Mother Teacher International School, Handiaya
Learning Paths School, Mohali
Tandon International School, Barnala
SGGS Collegiate Public School. Sec-26

RAJASTHAN

Children's Academy Bani Park
Children's Academy Nirman Nagar
S.R.global School
Shemrock School

TELANGANA

International School of Hyderabad

UTTAR PRADESH

Christ Church College
City Montessori School, Chowk All Branches
D.P.S (s.n)
Delhi Public School, Barra
Hartmann College, Bareilly
Pioner Montessori School
Tender Hearts School
R.A.N Public School, Bilaspur, Rampur
R.A.N Public School, Dibdiba, Rampur

UTTARAKHAND

Amenity Public School
R.A.N.Public School Bhurarani
Amenity Public School, Rudrapur
R.A.N Public School, Rudrapur
GRD International School, Gadarpur
Mother India Global School, Dineshpur
Bal Sanskar Sainik School, Jyolkote
Himalayan Academy, Nainital
Gyandeep Global School, Bazpur
Vikas Bharti School, Bazpur
21 Oakwood School, Bazpur
Lead International School, Swar Bazpur
Kidzee School, Sitarganj
The Apex Institute of Excellence, Sitarganj
Chaitanya International School, Sitarganj
Greenwood School, Sitarganj
Hind Public School, Khatima.

WEST BENGAL

A.K.ghosh Memorial School
Abul Hasan High School
APC High School
Carmel High School
Elias Meyer Free School & Talmud Torah
Harrow Hall
Hirendra Leela Patranavis School
Kendria Vidyalyaya Ballygunge
Miranda High School
Mount Litera Zee School
P.b.academic School
Salt Lake School
Swarnim International School
Vidasagar Vidyamandir



KENKEN PRACTICE BOOKS

Why KENKEN Books BEAT Free Online Sheets – EVERY TIME!

PAPER = POWER

Writing by hand builds sharper MEMORY, deeper FOCUS, and stronger THINKING skills.

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Link: <https://pages.razorpay.com/stores/kenkenpuzzlesodisha>



KENKEN INDIA HEAD OFFICE

1104-1106, K-10 Grand, Sarabhai Road, Vadodara - 390007, Gujarat, INDIA

Phone / +91 265 2983984 • +91 9737371390

Email / info@kenkenpuzzles.in

Website / www.kenkenpuzzles.in

KENKEN ODISHA HEAD OFFICE

MIG-135 (1st Floor), Anant Vihar (Phase-II), Pokhariput, Bhubaneswar - 751020

+91 9237398514 / Phone

kenkenodisha@gmail.com / Email

www.kenkenpuzzlesodisha.in / Website