



Can You KENKEN?

Use your super math and logic skills to solve fun number puzzles here and at our Web site!

Congratulations—you're about to get superpowers! It's true: You're about to be given the ability to solve KenKen puzzles! The puzzles look like sudoku, but in KenKen, math is part of the fun. Read on to build your puzzle powers. Soon you'll be telling the world your new superhero saying: "I can KenKen!"

KENKEN CLUES

A For a 4-by-4 game grid such as the one below, you must fill in the boxes in each row and column with the numbers 1 to 4. Do not repeat a number in any row or column.

B The areas with dark outlines around them are called cages. At the top left of each cage is a *target number*. First, look for cages that surround only one box. Simply write the target number in that cage. In the sample puzzle below, find the one-box cages that say "3" and "2."

3	2÷		7+
5+		2	
2÷	7+	6×	
		3-	

C Cages that surround more than one box list a target number and an operation. For example, the cage at the top right says "7+." That means the two numbers you put in that cage must have a sum of 7. The only two different numbers from 1 to 4 with a sum of 7 are 3 and 4. But which of those two numbers goes in which box? Easy! There is already a 3 in the top row, so 4 must go in the top-right box, and 3 must go in the box below it.

D Now look for cages that have only one possible solution. Try the "3-" cage at the bottom right. The only numbers from 1 to 4 that have a difference of 3 are 1 and 4. But which goes in which square? Since there's already a 4 in the far-right column, 1 must go in the bottom-right box. And 4 goes in the box to its left.

E Look for other cages, rows, and columns that have only one possible solution.

F Keep going until you've completed the whole puzzle! Remember: Don't use any number more than once in any row or column.

What to Do

KenKen grids are always squares. But they can be different sizes, from 3-by-3 to 9-by-9. Use the tips and example puzzle in **KENKEN CLUES** to solve the puzzles below.

1 For this puzzle, you'll use only addition. Fill in the two single-box cages. Then do the 3+ cage, then the 6+, then the 5+. Keep going!

2	3+	7+	4+
7+			
	5+		6+
4+		2	

2 To solve this puzzle, you'll need to use all 4 basic operations. Fill in the two single-box cages. Then do the 4+ toward the bottom right. Then solve the 3- above it. Can you take it from there?

4+		2÷	
6×		3-	
3-	2	4+	
	2÷		3

 **Web Wise**
 Play more KenKen games! You'll find two new puzzles each day at www.scholastic.com/dynamath.