KENKEN CLASSROOM
Puzzles That Make You Smarter.

RULES

HOW TO PLAY KENKEN®

1. Fill in each square with a single number. In a 3x3 grid, use the numbers 1 through 3. In a 4x4 grid, use the numbers 1 through 4. In a 5x5 grid, use the numbers 1 through 5…and so on.
2. Do not repeat numbers in any individual row or column. For example, in a 3x3 grid, each column and each row should be filled in with the numbers 1, 2, and 3, with no duplication.
3. Each heavily outlined set of squares is called a "cage." The numbers in each cage must combine (in any order) to produce the target number indicated in the top corner by using the mathematical operation next to the target number.
4. A number may be repeated within a cage as long as it is not in the same row or column.

HINTS

1. First fill in single box cages, called "freebies," with the number in the top left corner.
2. Note the candidates (all possible numbers for each square) for each remaining square and then determine the correct numbers by math, logic, and process of elimination.
3. Each puzzle has one unique solution.

Hello, I'm Lulu, the KenKen Guru. Did you know the Japanese word, Kengaeru, means "to think"?

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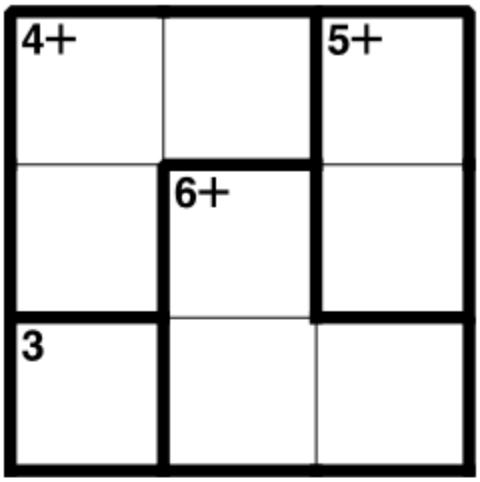
Name: _____

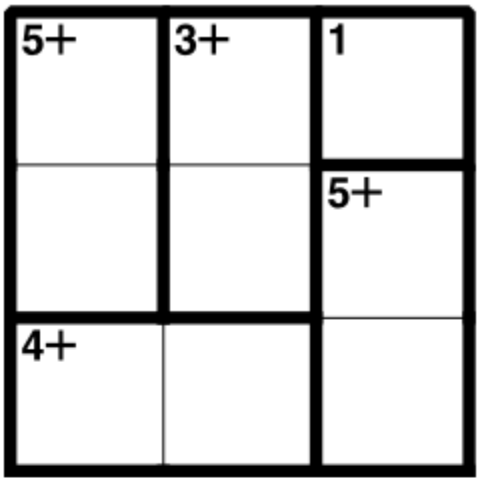
3x3

+



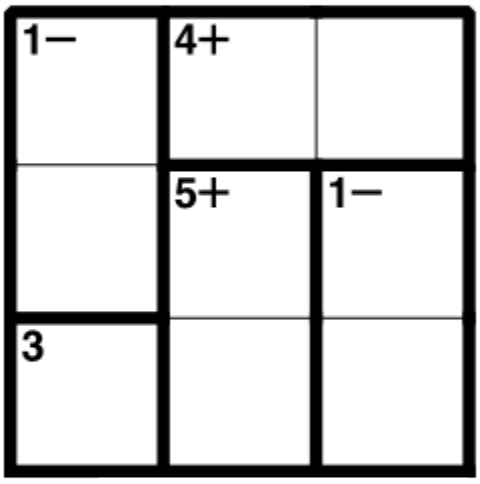
7-1

+



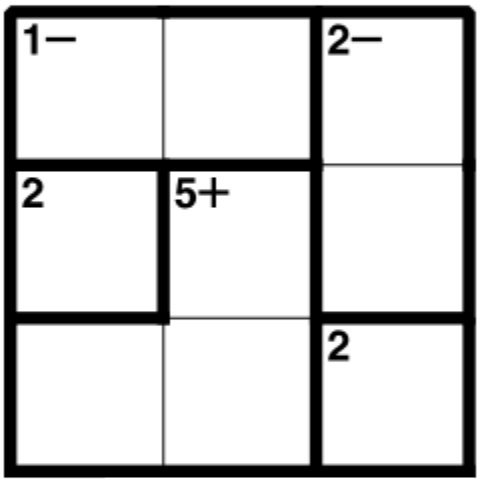
7-2

+ −



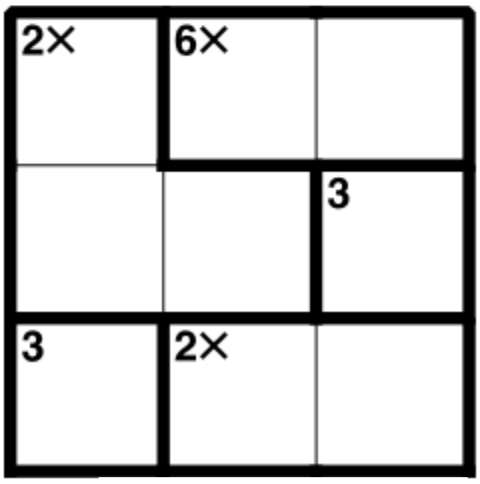
7-3

+ −



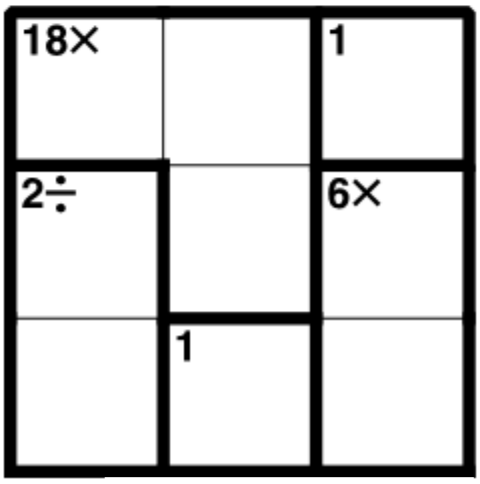
7-4

×



7-5

× ÷



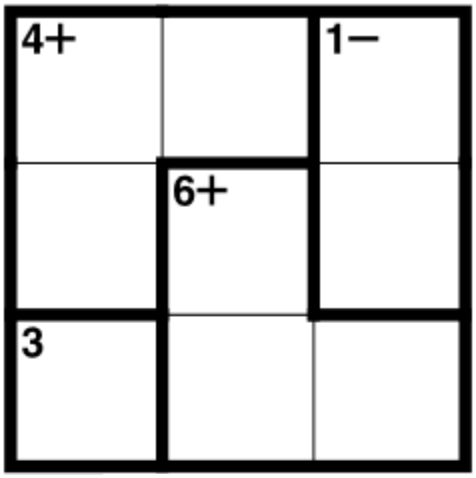
7-6

KENKEN CLASSROOM
Puzzles That Make You Smarter

Name: _____

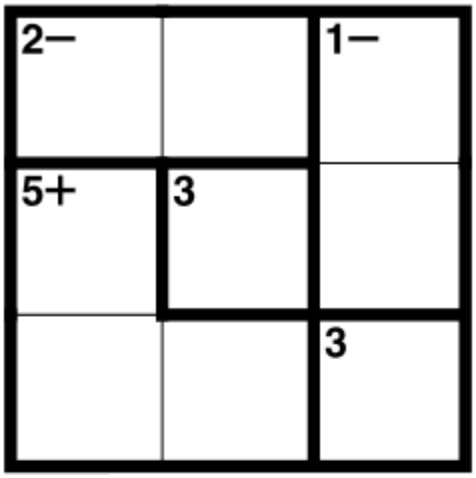
3x3

+ −



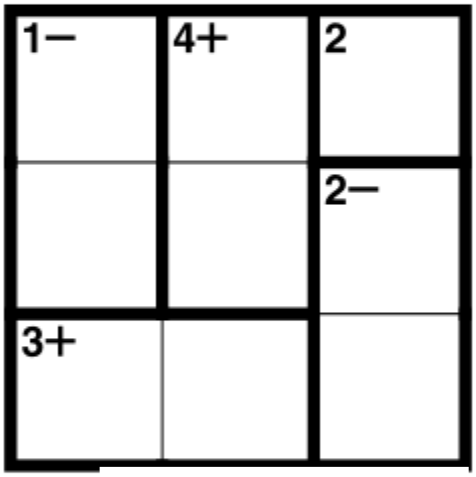
21-1

+ −



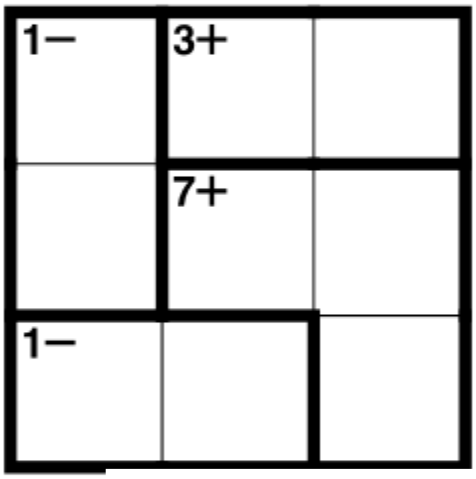
21-2

+ −



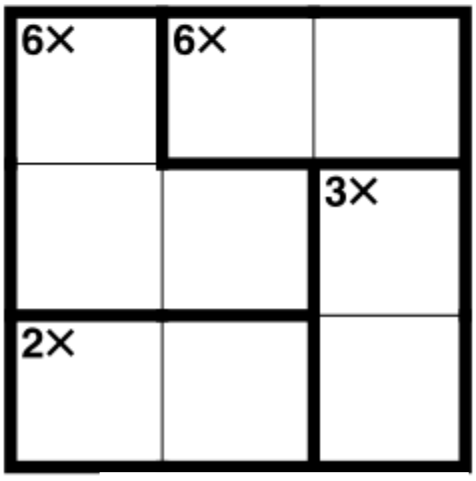
21-3

+ −



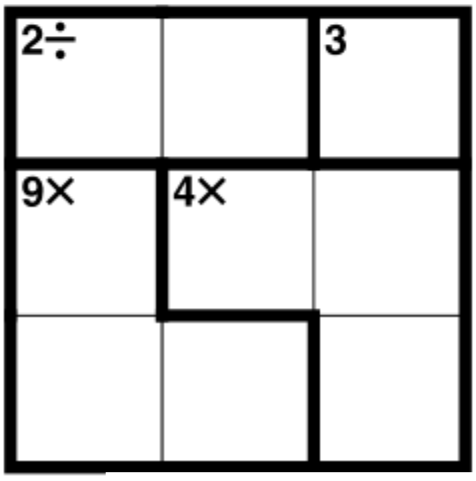
21-4

×



21-5

× ÷



21-6

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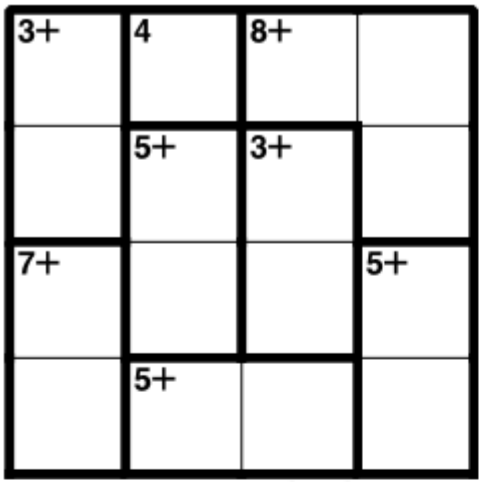
Name: _____

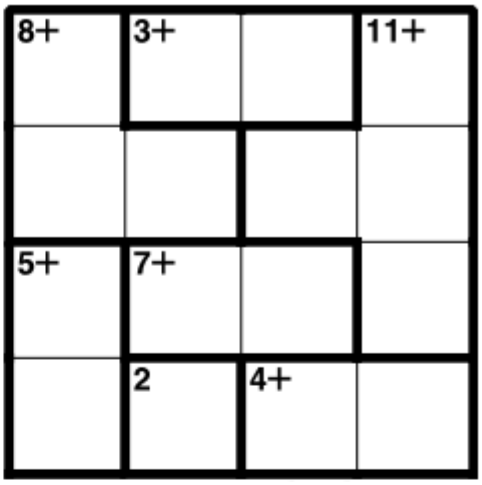
4x4

+



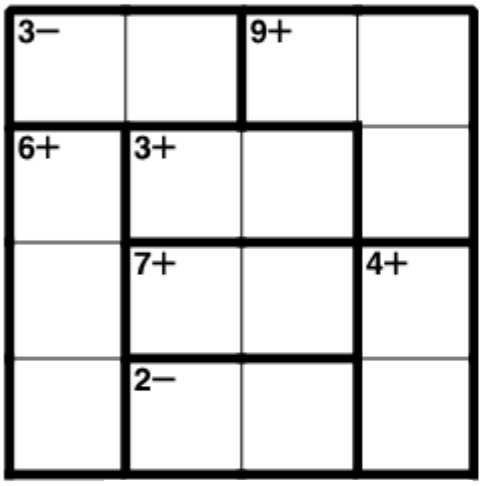
7-7

+



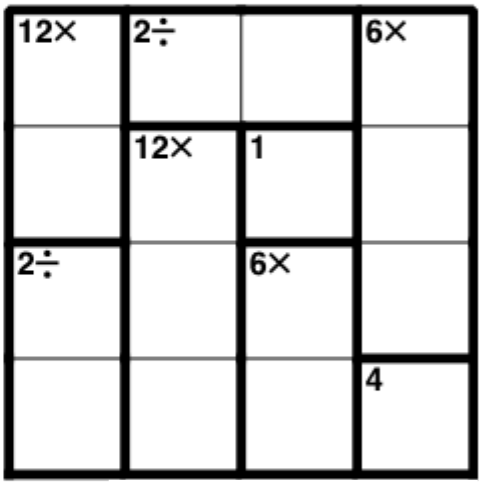
7-8

+ −



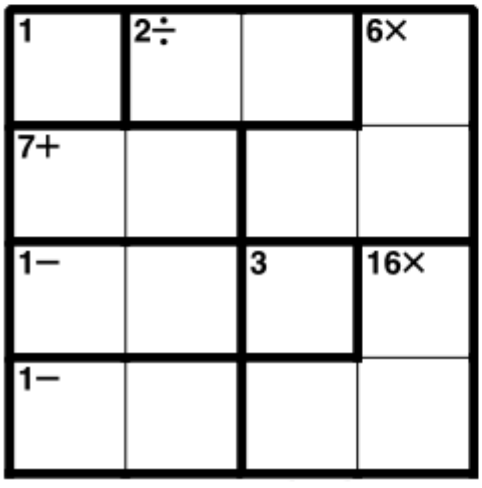
7-9

× ÷



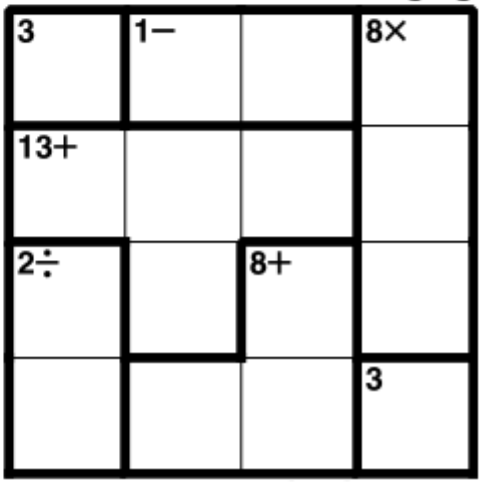
7-10

+ − × ÷



7-11

+ − × ÷ Challenging



7-12

KEN KEN CLASSROOM
Puzzles That Make You Smarter

Name: _____

4x4

+

7+	6+		
	3+	7+	5+
7+			
		5+	

21-7

+

9+			3+
5+		7+	
	8+		7+
		1	

21-8

+ −

2−		1−	2−
3−	7+		
			2−
2	3−		

21-9

× ÷

3×	8×		12×
	6×		
2÷	12×		
		2÷	

21-10

+ − × ÷

3×		2÷	
	12×		8+
2÷	1−		
		1	

21-11

+ − × ÷ Challenging

1−		3−	6+
2÷	12×		
2−		2÷	

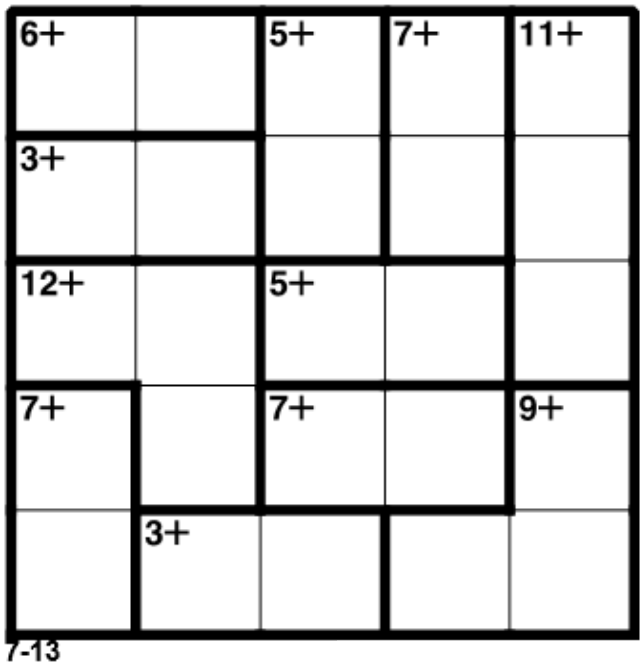
21-12

KENKEN CLASSROOM
Puzzles That Make You Smarter

Name: _____

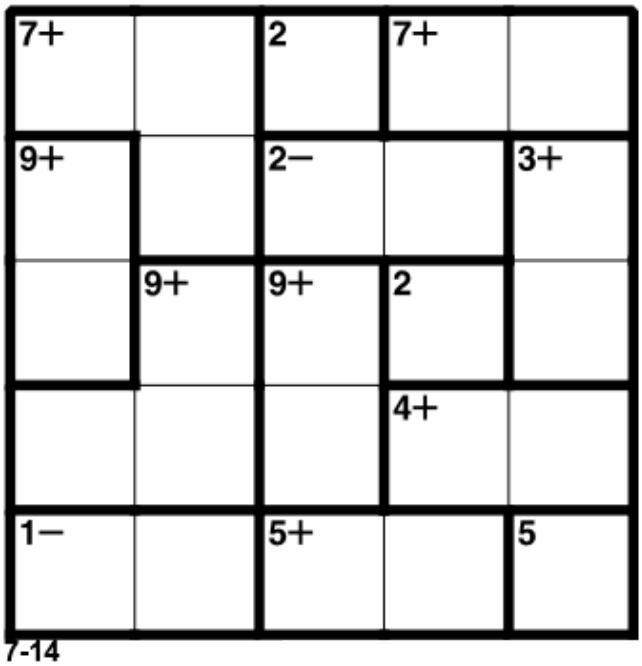
5x5

+



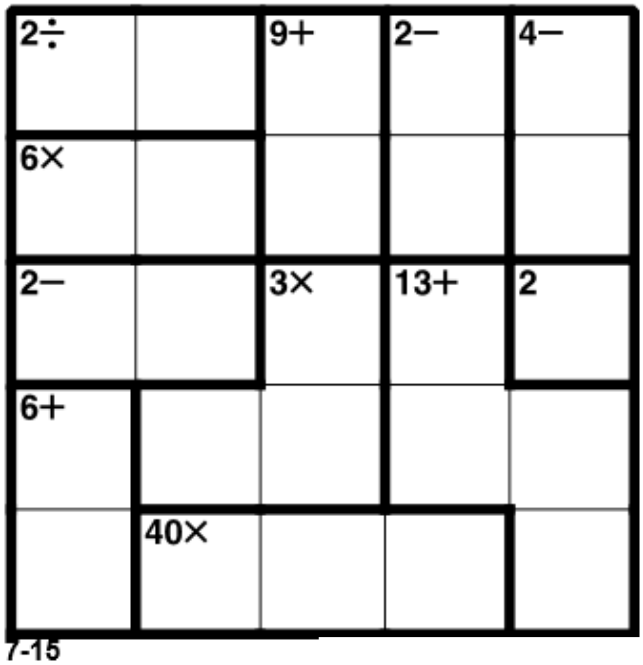
7-13

+ −



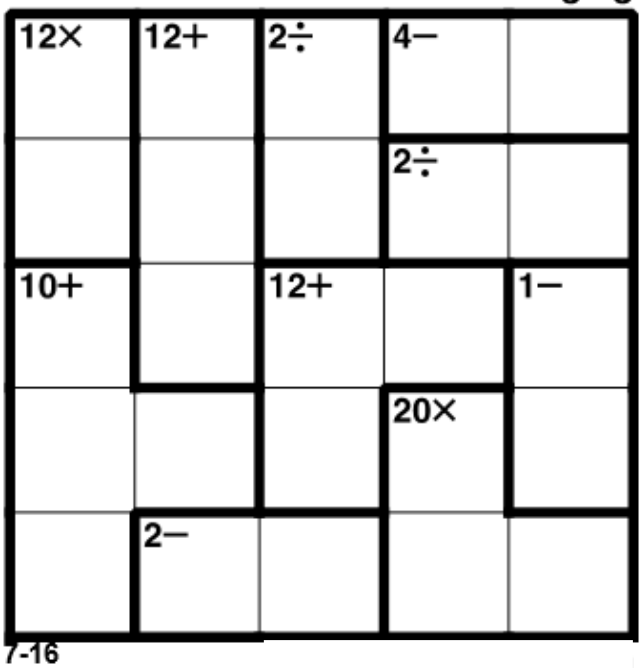
7-14

+ − × ÷



7-15

+ − × ÷ Challenging



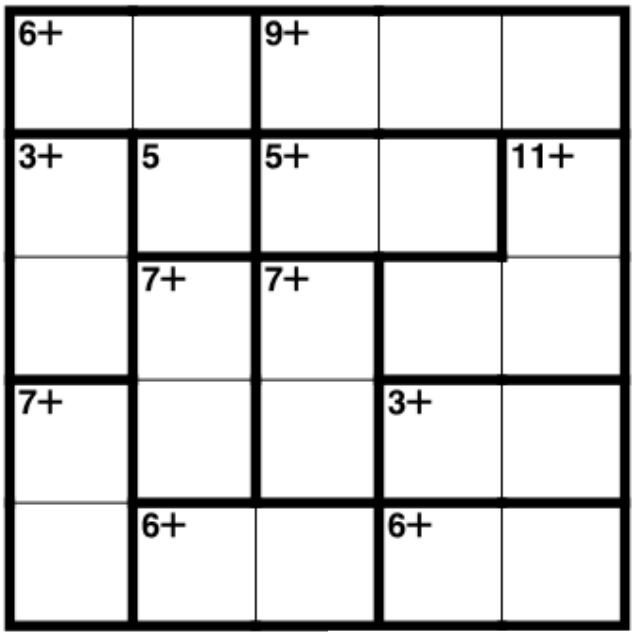
7-16

KENKEN CLASSROOM
Puzzles That Make You Smarter

Name: _____

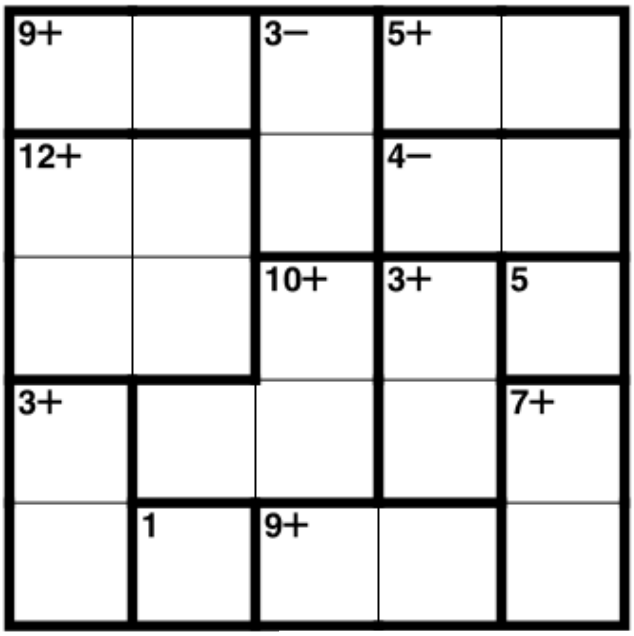
5x5

+



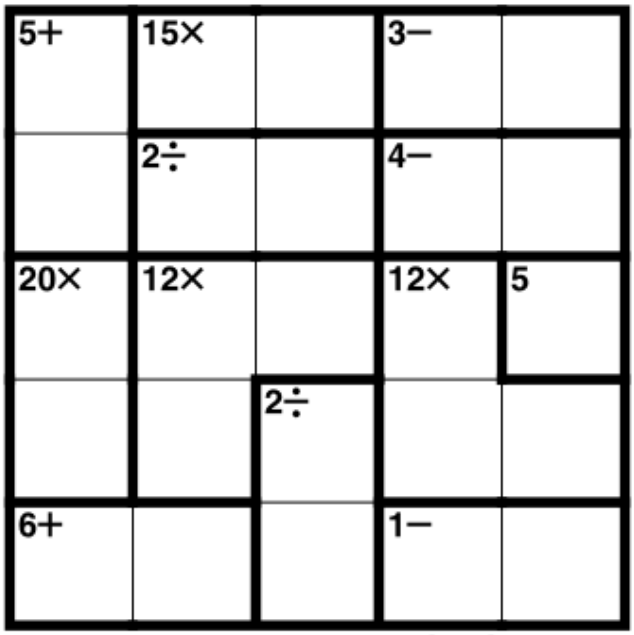
21-13

+ −



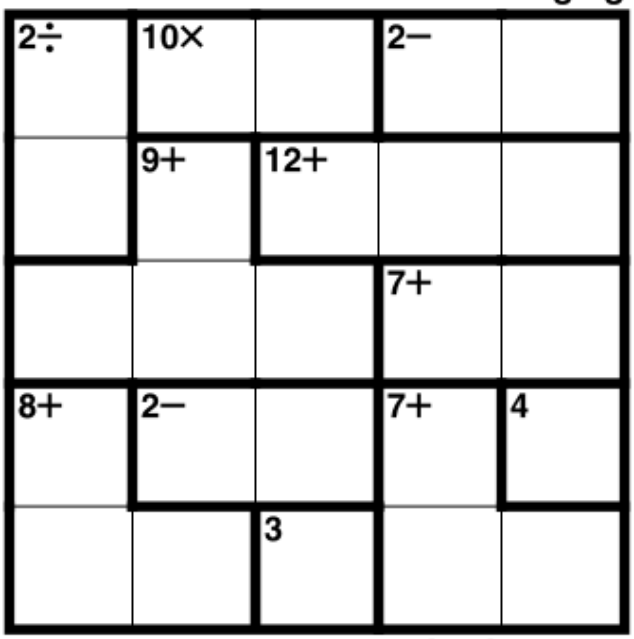
21-14

+ − × ÷



21-15

+ − × ÷ Challenging



21-16

KENKEN CLASSROOM
Puzzles That Make You Smarter

Name: _____

6x6

+ − × ÷ **Challenging**

60×			1	7+	
5−		11+	8+		15+
2−	8+			2÷	
		1−			
5		5−	1−		2÷
2−			10+		

7-17

+ − × ÷ **Extra Challenging**

100×		2÷		2÷	
		8+		1−	
9+		6		1−	
2÷		2−		2÷	
	11+		2÷		6+
8×			3−		

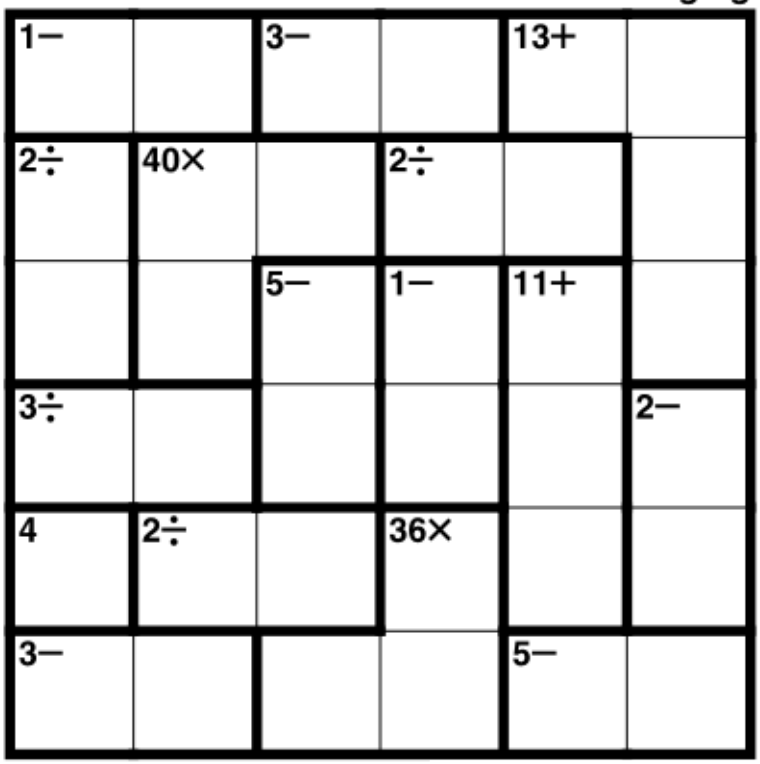
7-18

KENKEN CLASSROOM
Puzzles That Make You Smarter

Name: _____

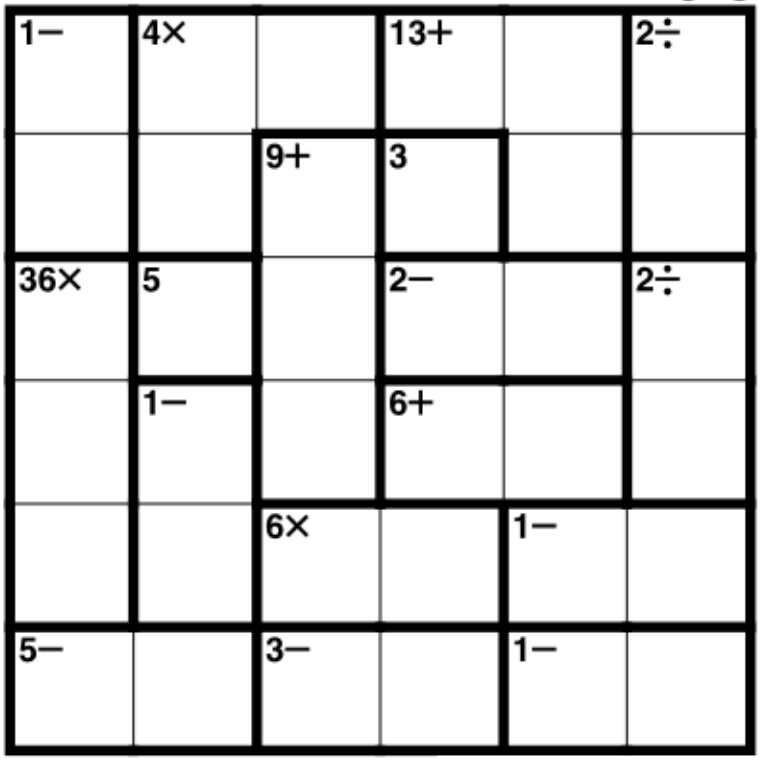
6x6

+ − × ÷ **Challenging**



21-17

+ − × ÷ **Extra Challenging**



21-18

KENKEN CLASSROOM
Puzzles That Make You Smarter

Name: _____

7x7, 8x8

+ − × ÷ **Challenging**

5−	1−		1−	60×	3−	
	11+					5−
2÷		8+		6−		
	15×		2−		2−	
5+			12+		13+	
35×	1−	15+			1−	
				5+		1

7-19

+ − × ÷ **Extra Challenging**

15×	1−		48×	2−		2−	10×
				5−	6−		
2÷		17+				5	42×
2−			10+				
5−	2÷		26+				24×
	5−		6+		1−		
2÷	3	10×		1−		84×	3−
	5−		15×				

7-20

KENKEN CLASSROOM
Puzzles That Make You Smarter

Name: _____

7x7, 8x8

+ − × ÷ **Challenging**

28×		1−		1−		4−
2÷	10+	10+			4	
		6−		1−	3−	
3−		12×			6+	13+
10+	6	2−	3−			
	6+		6	2÷		14+
		3−				

21-19

+ − × ÷ **Extra Challenging**

105×		24×			7−	5−
1−		168×			4÷	
	9+		64×	20×	5−	
1−					17+	1−
4÷			17+			5
7−	5−			4−		9+
	2−			16+		
7+			26+			

21-20

Name: _____

KENKEN CLASSROOM
Puzzles That Make You Smarter.

Bonus Puzzle

There are several ways to enjoy KenKen. Try this variant!

KenKen Twist: Instead of using the numbers from 1 to the size of the grid, use the numbers indicated at the top right of the puzzle.

KENKEN Twist 1 2 4 6 7 8

6×		2÷		9+	
14+	8+		15+	2÷	
	2÷			10+	
56×	15+	2−	2	6−	
			6×		7−
	2÷		2−		

Name: _____

KENKEN CLASSROOM
Puzzles That Make Math Fun

Bonus Puzzle

There are several ways to enjoy KenKen. Try this variant!

KenKen No-Operation ("No-Op"): There is still a target number, but the operation to get to the target number is not provided. Try to figure out which operations to use. Hint: Any cage with three or more squares can only use addition or multiplication.

+ − × ÷ Challenging