

# KenKen

## Rules and an Example

This example is for a 4x4 puzzle so the only numbers you can use are a 1, 2, 3 or 4. (If it were a 6x6 puzzle you would need the numbers 1, 2, 3, 4, 5, and 6).

- No numbers may appear more than once in any row or column. (That is, all required numbers must appear in every row and column.)
- Each "cage" (region bounded by a heavy border) contains a "target number." If there's more than one cell in the cage, the target is also accompanied by an arithmetic operation. You must fill that cage with numbers that produce the target number, using only the specified arithmetic operation. Numbers may be repeated within a cage, if necessary, as long as they do not repeat within a single row or column.
- In a one-cell cage, just write the target number in that cell.

2, - 2	4	2, - 1	3
3, + 1	2	9, + 3	4
9, x 3	1	4	2, ÷ 2
4 4	3	2	1

Handwritten annotations:

- 1. Fill in first can only be a 4
- 2. Can also only be a 4
- 3.  $9 = 3 \times 3 \times 1$  3's can't appear in the same row
- 4.  $3 = 1 + 2$  1 can't go in the second column
- 5. Have to be 2 & 4 to complete the column also  $4 - 2 = 2$
- 6. Has to be a 3 to complete the row
- 7. Have to be a 3 & 1 to complete the row 3 has to be on the right  $3 - 1 = 2$
- 8. Has to be  $2 \div 1 = 2$  1 has to be on the bottom row
- 9. Have to be 4 & 2 to complete the rows and  $3 + 4 + 2 = 9$

This is 1 method - there could have been others.

### 3 x 3 KenKen

<b>2-</b>		<b>3+</b>
<b>1-</b>		
<b>1</b>	<b>5+</b>	

<b>3+</b>		<b>6x</b>
<b>3</b>		
<b>3÷</b>		<b>2</b>

### 4 x 4 KenKen

<b>2-</b>		<b>2÷</b>	
<b>2÷</b>	<b>24x</b>	<b>3-</b>	
			<b>4+</b>
<b>2÷</b>		<b>3</b>	

<b>6x</b>	<b>3-</b>	<b>7+</b>	<b>1</b>
			<b>9+</b>
<b>3-</b>	<b>1-</b>		
	<b>2÷</b>		

# 5 x 5 KenKen

<b>11+</b>	<b>5+</b>		<b>7+</b>	
			<b>2</b>	<b>9+</b>
<b>13+</b>		<b>3+</b>		
<b>5+</b>		<b>9+</b>	<b>7+</b>	<b>2-</b>

<b>9+</b>		<b>2-</b>	<b>5+</b>	<b>4-</b>
<b>5+</b>	<b>3-</b>			
		<b>9+</b>		<b>2</b>
<b>4-</b>	<b>7+</b>		<b>4</b>	<b>7+</b>
	<b>3</b>	<b>3+</b>		

The World  
Championship 6 x 6  
KenKen Puzzle...

<b>360X</b>		<b>3-</b>	<b>3+</b>		<b>3-</b>
			<b>11+</b>	<b>24X</b>	
<b>5-</b>		<b>3÷</b>			
<b>48X</b>			<b>10+</b>		<b>14+</b>
	<b>5+</b>		<b>2-</b>	<b>7+</b>	
	<b>1-</b>				