



Learn a new puzzle

Sum Cages

Use 1 to 4 once in each row and column. Each cage adds up to its small number. A number can repeat in a cage. But not in the same row or column.

Trick: Small cages first**1**

5+		5+	
5+		4	4+
4+	6+		
	2	5+	

The 4 cage has one square, so it is 4.

2

5+		5+	
5+		4	4+
4+	6+		
	2	5+	

The 2 cage has one square, so it is 2.

3

5+		5+	②
5+		4	4+
4+	6+		
	2	5+	

The 4+ cage in row 2 has two squares, so it must be 1 and 3. Now column 4 has one place for the 2.

Try it

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

The answer is with the other answers.

Talk about it: Ask: Which numbers can make this cage, and how do you know?

**1****Sum Cages**

Use 1 to 4 once in each row and column. Each cage adds up to its small number.



4	6+		
4+	7+		5+
		4	
5+		5+	

2**Sum Cages**

Use 1 to 4 once in each row and column. Each cage adds up to its small number.



3+		11+	
7+	4+		
	7+		3+
2		3	

**3****Sum Cages**

Use 1 to 4 once in each row and column. Each cage adds up to its small number.



3+		7+	
6+	4+		5+
	5+	6+	
3			1

4**Sum Cages**

Use 1 to 4 once in each row and column. Each cage adds up to its small number.



5+	9+	4+	
		6+	
5+		2	5+
	4+		



5

Sum Cages

Use 1 to 4 once in each row and column. Each cage adds up to its small number.



8+		8+	8+
4+	9+		
		1	2

6

Sum Cages

Use 1 to 4 once in each row and column. Each cage adds up to its small number.



5+	3+	11+	
		3+	
7+			1
8+			2



7

Sum Cages

Use 1 to 4 once in each row and column. Each cage adds up to its small number.



7+	6+	5+	
		4+	
	7+	9+	
			2

8

Sum Cages

Use 1 to 4 once in each row and column. Each cage adds up to its small number.



10+	7+		
		7+	
5+			7+
	4		

**9****Sum Cages**

Use 1 to 4 once in each row and column. Each cage adds up to its small number.



11+	6+		
		7+	
1	7+		8+

10**Sum Cages**

Use 1 to 4 once in each row and column. Each cage adds up to its small number.



10+			6+
6+			
	7+		4+
7+			



Answers

 For grown-ups. Cut off or keep this page aside until the puzzles are done.

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³⁺ 2	⁴⁺ 3	1	⁶⁺ 4
1	⁴ 4	⁷⁺ 3	2
⁷⁺ 3	³⁺ 2	4	⁴⁺ 1
4	1	² 2	3

#1

⁴ 4	⁶⁺ 3	2	1
⁴⁺ 1	⁷⁺ 4	3	⁵⁺ 2
2	1	⁴ 4	3
⁵⁺ 3	2	⁵⁺ 1	4

The 4 cage in row 1 has one square, so it is 4.

#2

³⁺ 1	2	¹¹⁺ 4	3
⁷⁺ 3	⁴⁺ 1	2	4
4	⁷⁺ 3	1	³⁺ 2
² 2	4	³ 3	1

The 2 cage has one square, so it is 2.

#3

³⁺ 1	2	⁷⁺ 3	4
⁶⁺ 4	⁴⁺ 3	1	⁵⁺ 2
2	⁵⁺ 1	⁶⁺ 4	3
³ 3	4	2	¹ 1

The 3 cage has one square, so it is 3.

#4

⁵⁺ 4	⁹⁺ 2	⁴⁺ 1	3
1	3	⁶⁺ 4	2
⁵⁺ 3	4	² 2	⁵⁺ 1
2	⁴⁺ 1	3	4

The 2 cage has one square, so it is 2.

#5

⁸⁺ 4	2	⁸⁺ 3	⁸⁺ 1
2	1	4	3
⁴⁺ 1	⁹⁺ 3	2	4
3	4	¹ 1	² 2

The 8+ cage in column 1 can only be 2 + 2 + 4. So row 1, column 2 can't be 1 or 3.

#6

⁵⁺ 2	³⁺ 1	¹¹⁺ 4	3
3	2	³⁺ 1	4
⁷⁺ 4	3	2	¹ 1
⁸⁺ 1	4	3	² 2

Row 2, column 2 can only be 2. Every other number is ruled out.

#7

⁷⁺ 1	⁶⁺ 4	⁵⁺ 2	3
4	2	⁴⁺ 3	1
2	⁷⁺ 3	⁹⁺ 1	4
3	1	4	² 2

The 5+ cage can only be 1 + 4 or 2 + 3. So row 1, column 3 can't be 3.

#8

¹⁰⁺ 3	⁷⁺ 1	2	4
4	3	⁷⁺ 1	2
⁵⁺ 1	2	4	⁷⁺ 3
2	⁴ 4	3	1

The 10+ cage can only be 3 + 3 + 4. So row 2, column 2 can't be 1 or 2.



Answers

 For grown-ups. Cut off or keep this page aside until the puzzles are done.

#9

¹¹⁺ 4	⁶⁺ 1	3	2
3	4	⁷⁺ 2	1
¹ 1	⁷⁺ 2	4	⁸⁺ 3
2	3	1	4

The 7+ cage in row 2 can only be 1 + 2 + 4. So row 3, column 3 can't be 2 or 3.

#10

¹⁰⁺ 1	2	3	⁶⁺ 4
⁶⁺ 3	1	4	2
2	⁷⁺ 4	1	⁴⁺ 3
⁷⁺ 4	3	2	1

The 6+ cage in row 2 can only be 1 + 1 + 4 or 1 + 2 + 3. So row 2, column 2 can't be 4.