



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+
4+	6+		
	2	5+	

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

2

5+		5+	
5+		4 4	4+
4+	6+		
	2 ②	5+	

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

3

5+		5+	②
5+		4 4	4+
4+	6+		
	2 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.

Learn • Sum Cages

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

#1

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

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

#2

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

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

#3

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

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

#4

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

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

#5

8 ⁺		8 ⁺	8 ⁺
4	2	3	1
2	1	4	3
4 ⁺	9 ⁺		
1	3	2	4
3	4	1	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 ⁺	3 ⁺	11 ⁺	
2	1	4	3
3	2	3 ⁺	
	1		4
7 ⁺			1
4	3	2	
8 ⁺			2
1	4	3	

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

#7

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

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

#8

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