



Learn a new puzzle

Sum Cages

Use 1 to 6 once in each row and column. + adds, - takes away, × multiplies, ÷ divides (bigger by smaller). A number can repeat in a cage if it is not in the same row or column.

Trick: Divide cages**1**

2÷		9+	6÷	9+	
7+				8+	
	11+	4÷			3-
5÷		8+		2-	
	4	8+			4÷
1-			6+		

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

2

2÷		9+	6÷	9+	
7+				8+	
	11+	4÷			3-
5÷		8+		2-	
	4	8+			4÷
1-			6+		

The 4÷ cage in row 5 can only be made with 1 and 4. Now row 5, column 6 can only be 1.

3

2÷		9+	6÷	9+	
7+				8+	
	11+	4÷			3-
5÷		8+		2-	
	4	8+			4÷
1-			6+		

The 4÷ cage in row 5: one number is 4 times the other. With 1 there, only 4 fits.

Try it

12+	3+	3	8+		40×
		12+		1-	
	1-		5÷		
12×				10+	
	9+	8+		11+	3÷
			6		

The answer is with the other answers.

Talk about it: Ask: Which two numbers from 1 to 6 make this ÷ cage?

**1****Sum Cages**

Use 1 to 6 once in each row and column. Each cage makes its number with its sign. Numbers may repeat in a cage, not in a line.



3-	5×	24×		3+	
		2-		90×	3
4×		8+			2-
9+	6	3+			
	10×		3	12+	
6×			10+		

2**Sum Cages**

Use 1 to 6 once in each row and column. Each cage makes its number with its sign. Numbers may repeat in a cage, not in a line.



11+	8+	6+		5+	
		6	3-		9+
2	14+				
3+			1-		15+
48×		10×			
	6+			6	

**3****Sum Cages**

Use 1 to 6 once in each row and column. Each cage makes its number with its sign. Numbers may repeat in a cage, not in a line.



7+	10+	9+		6+	6×
		5+			
10+	3-	8+		18×	
		1	8×		10+
9×		13+		2-	
1					5

4**Sum Cages**

Use 1 to 6 once in each row and column. Each cage makes its number with its sign. Numbers may repeat in a cage, not in a line.



5-	24×	10+			7+
			16+		
10+	6	7+			
	6+	1-		5+	90×
			6		
2-		6	4+		

**5****Sum Cages**

Use 1 to 6 once in each row and column. Each cage makes its number with its sign. Numbers may repeat in a cage, not in a line.



9+		5+	15+	2-	
	4+			11+	2
90×					6÷
		20×	6×		
2÷	6				8+
	24×		4+		

6**Sum Cages**

Use 1 to 6 once in each row and column. Each cage makes its number with its sign. Numbers may repeat in a cage, not in a line.



1	6+		90×	1-	
2÷	5÷			10+	
		6+	6+		10+
12+	6			6÷	
			6×		
40×				2-	

**7****Sum Cages**

Use 1 to 6 once in each row and column. Each cage makes its number with its sign. Numbers may repeat in a cage, not in a line.



4×	3-	4	3	8+	
		30×		18×	5+
15×		11+			
3÷			20×		
2÷	5+		9+		1-
		8+			

8**Sum Cages**

Use 1 to 6 once in each row and column. Each cage makes its number with its sign. Numbers may repeat in a cage, not in a line.



8+			12+	15+	
60×		1		10+	
	9+				
2÷	6		15×		3-
	15+		4+	7+	
2÷					

**9****Sum Cages**

Use 1 to 6 once in each row and column. Each cage makes its number with its sign. Numbers may repeat in a cage, not in a line.



18×	5+		7+		2-
	24×	8+	20×	6×	
1-		12+		9+	8+
8+	1		2÷		
					4

10**Sum Cages**

Use 1 to 6 once in each row and column. Each cage makes its number with its sign. Numbers may repeat in a cage, not in a line.



11+	90×		6+	6÷	2
					15+
	7+		6×		
6+				9+	
12+	11+			7+	
		12+			



Answers

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

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12+	3+	3	8+	1	40×
6	2	3	4	1	5
5	1	12+	3	1-	4
1	1-	6	5+	5	3
12×	3	5	2	1	10+
3	5	2	1	4	6
4	9+	3	8+	5	2
4	3	8+	5	2	11+
2	4	1	6	5	3

#1

3-	5×	24×	3+	1
3	5	6	4	2
6	1	2-	4	2
4×	1	4	3	5
9+	5	6	2	1
4	10+	2	5	3
2	3	1	6	4
6×	2	3	1	6

The 3 cage in row 2 has one square, so it is 3.

#2

11+	8+	6+	5+	1
6	5	4	2	3
5	3	6	4	1
2	6	5	1	4
3	1	2	3	6
1	2	3	6	5
3	4	1	5	2
4	1	2	3	6

The 6 cage in row 2 has one square, so it is 6.

#3

7+	10+	9+	6+	6×
5	4	6	3	1
2	6	5+	4	1
4	2	3	5	6
6	5	1	8×	3
3	1	5	4	2
1	3	2	6	4

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

#4

5-	24×	10+	7+	1
6	4	5	3	2
1	3	2	5	6
3	6	1	4	5
5	1	3	2	4
2	5	4	6	1
4	2	6	1	3

The 6 cage in row 3 has one square, so it is 6.

#5

9+	5+	15+	2-	4
1	3	2	5	6
5	4+	1	3	6
3	2	1	4	5
6	5	4	3	2
4	6	5	2	1
2	4	6	1	3

The 6÷ cage can only be made with 1 and 6.

#6

1	6+	4	90×	1-	5
1	2	4	3	5	6
2÷	3	1	6	5	2
6	5	1	2	4	3
12+	5	6	3	4	1
4	3	2	1	6	5
40×	2	4	5	6	3

The 5÷ cage can only be made with 1 and 5.

#7

4×	3-	4	3	8+	2
1	5	4	3	2	6
4	2	5	6	3	1
5	3	2	1	6	4
2	6	3	4	1	5
3	1	6	5	4	2
6	4	1	2	5	3

The 3÷ cage: one number is 3 times the other. With 2 there, only 6 fits.

#8

8+	12+	15+	3
5	1	2	4
3	5	1	2
4	2	3	6
1	6	4	5
2	4	6	3
6	3	5	1

Column 4 adds up to 21 (1 + 2 + 3 + 4 + 5 + 6). The 12+ and 4+ cages inside it make 16, so the last square is 5.



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

#9

^{18×} 6	⁵⁺ 4	1	⁷⁺ 2	5	²⁻ 3
3	^{24×} 2	⁸⁺ 6	^{20×} 4	^{6×} 1	5
4	3	2	5	6	1
¹⁻ 5	6	¹²⁺ 4	1	⁹⁺ 3	⁸⁺ 2
⁸⁺ 2	¹ 1	5	^{2÷} 3	4	6
1	5	3	6	2	⁴ 4

Column 3 adds up to 21 ($1 + 2 + 3 + 4 + 5 + 6$). The $8+$ and $12+$ cages inside it make 20, so the last square is 1.

#10

¹¹⁺ 4	^{90×} 6	5	⁶⁺ 3	^{6÷} 1	² 2
5	3	1	2	6	¹⁵⁺ 4
2	⁷⁺ 4	3	^{6×} 1	5	6
⁶⁺ 3	1	2	6	⁹⁺ 4	5
¹²⁺ 6	¹¹⁺ 2	4	5	⁷⁺ 3	1
1	5	¹²⁺ 6	4	2	3

Row 4 adds up to 21 ($1 + 2 + 3 + 4 + 5 + 6$). The $6+$ and $9+$ cages inside it make 15, so the last square is 6.