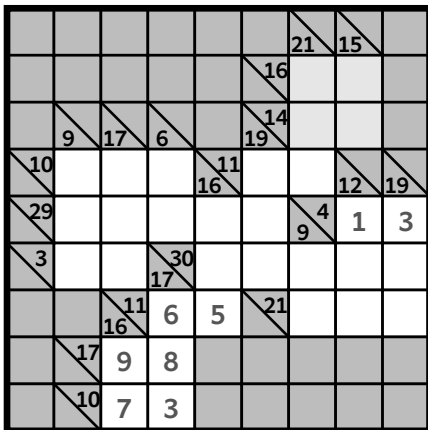




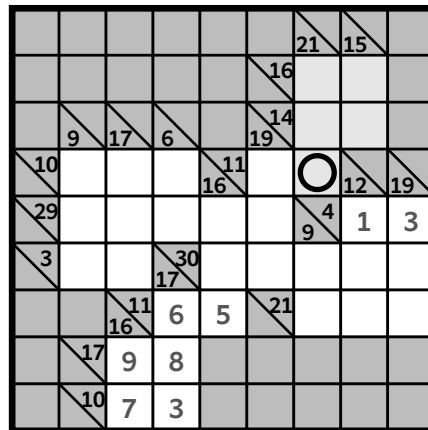
Learn a new puzzle

Cross Sums

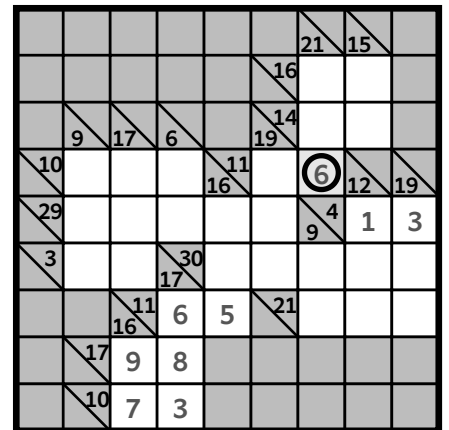
Use digits from 1 to 9. No digit repeats in a run. A run is the white squares in a line, across or down, between gray squares. Each run adds to the clue before it.

Trick: Block total**1**

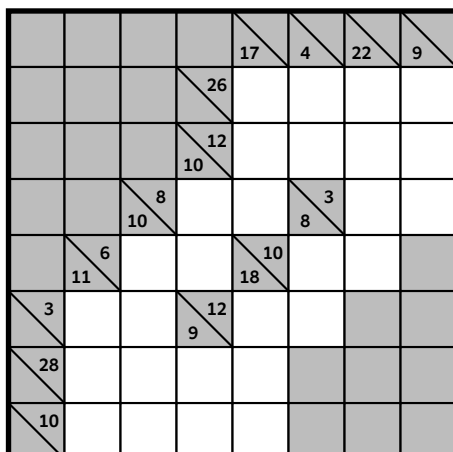
The across runs in rows 1–2 make a block. Their clues add to 30.

2

The down runs that cross it add to 36. One square sticks out of the block.

3

So that square is $36 - 30 = 6$.

Try it

The answer is with the other answers.

Talk about it: Ask: Which squares are counted by the down clues but not by the across clues?

**1****Cross Sums**

Use digits from 1 to 9. No digit repeats in a run. Each run adds to the clue before it. A run is the white squares in a line, across or down, between gray squares.



			16	10			
	13	11	16				
14					3	10	14
5			10				
			6				
7				7			
				7			
14					3		
				4			
			15				
			3				

**2****Cross Sums**

Use digits from 1 to 9. No digit repeats in a run. Each run adds to the clue before it. A run is the white squares in a line, across or down, between gray squares.



	10	26	17	17			
15							
28					13		
12			13			30	26
9			4				
		8		23	17		
				17	6		
			29				
			12				

**3****Cross Sums**

Use digits from 1 to 9. No digit repeats in a run. Each run adds to the clue before it. A run is the white squares in a line, across or down, between gray squares.



			12	10	28		
		23					
	11					14	24
12			18				
20			28	20			
17				8		16	
		12					
		22					

**4****Cross Sums**

Use digits from 1 to 9. No digit repeats in a run. Each run adds to the clue before it. A run is the white squares in a line, across or down, between gray squares.



			16	10			
	21	12	9				
28					12	28	14
7			12	16			
10				20	19		
28					14	12	
			26				
			6				

**5****Cross Sums**

Use digits from 1 to 9. No digit repeats in a run. Each run adds to the clue before it. A run is the white squares in a line, across or down, between gray squares.



	7	9			12	17		
9				7			12	8
3			35					
			6					
16					10			
					12			
	6	20				4		
						12		
10			23					
			13				6	9
8				15				
				4				
16							4	
		11						
						3		

**6****Cross Sums**

Use digits from 1 to 9. No digit repeats in a run. Each run adds to the clue before it. A run is the white squares in a line, across or down, between gray squares.



	21	19	7					
20								
19				8		8	5	
12					3			
		6	14					
	10					11	21	19
	6			13				
					19			
					23			



7

Cross Sums

Use digits from 1 to 9. No digit repeats in a run. Each run adds to the clue before it. A run is the white squares in a line, across or down, between gray squares.



	3	10	6		16	12	13	23
7				24				
10				28				
		3		7	10			
			11		13			
			26					
	11	13				20		
13				7			4	3
29				15	8			
14					13			



8

Cross Sums

Use digits from 1 to 9. No digit repeats in a run. Each run adds to the clue before it. A run is the white squares in a line, across or down, between gray squares.



				9	27	4		
			9					
		25					18	6
	19	13				10		
24				20				
15					20			
11			10					
		26						
		7						



9

Cross Sums

Use digits from 1 to 9. No digit repeats in a run. Each run adds to the clue before it. A run is the white squares in a line, across or down, between gray squares.



			6	5	30			
		17					5	13
		10				13		
			15	16		24		
		28						
	14	15						
27						3	4	
12			13					
			9					



10

Cross Sums

Use digits from 1 to 9. No digit repeats in a run. Each run adds to the clue before it. A run is the white squares in a line, across or down, between gray squares.



					13	3	9		
				7				29	30
			6	4	21				
		9				19			
	25	10	7				13	21	
9					10	24			
8			12	8					
13				20	4				
15									
		15							



Answers

 For grown-ups. Cut off or keep this page aside until the puzzles are done.**Learn · Cross Sums**

				17	4	22	9
			26	9	3	8	6
			12	6	1	3	2
		10	8	6	2	3	2
	6	2	4	10	1	9	
3	2	1	9	5	7		
28	8	4	7	9			
10	1	3	2	4			

#1

			16	10			
	13	11	9	7			
14	4	1	7	2	3	10	14
5	2	3	6	10	1	2	3
7	1	2	4	7	1	4	2
14	6	5	2	1	3	2	1
			15	4	3	1	7
			3	2	1		

The 10 down can only be 1 + 2 + 7 now, so this square can't be 9.

#2

	10	26	17	17			
15	2	4	8	1			
28	4	8	9	7	13		
12	3	9	4	9	4	30	26
9	1	5	3	23	9	8	6
		8	1	7	6	9	8
			29	8	5	7	9
			12	2	1	6	3

The 26 down can only be 2 + 7 + 8 + 9 or 3 + 6 + 8 + 9 or 4 + 5 + 8 + 9 or 4 + 6 + 7 + 9 now, so this square can't be 1.

#3

			12	10	28		
		23	9	6	8		
	11	2	3	1	5	14	24
12	8	4	28	3	6	1	8
20	7	5	8	20	9	4	7
17	9	1	5	2	16	7	9
		12	6	1	3	2	
		22	9	5	8		

The 12 down can only be 3 + 9 now, so this square can't be 6, 8.

#4

			16	10			
		9	7	2			
21	12	8	4	9	7	12	28
7	5	2	16	1	3	6	2
10	2	1	7	19	9	8	3
28	6	5	9	8	14	9	5
			26	9	8	5	4
			6	2	4		

The 10 down can only be 1 + 2 + 7 or 1 + 3 + 6 or 1 + 4 + 5 or 2 + 3 + 5 now, so this square can't be 8, 9.

#5

7	9			12	17		
9	4	5		7	3	4	8
3	2	1	35	7	9	6	8
16	1	3	4	8	10	7	1
		7	2	4	1	4	3
10	1	9	23	9	6	8	6
8	2	5	1	15	3	4	2
16	3	6	4	1	2	4	3

The 9 down can only be 1 + 2 + 6 or 1 + 3 + 5 or 2 + 3 + 4 now, so this square can't be 7, 8, 9.

#6

	21	19	7				
20	7	9	4				
19	9	8	2	8	5		
12	5	2	1	4	3	2	1
		6	14	3	1	6	4
	10	4	3	1	2	11	21
	6	2	4	13	4	1	6
				19	4	7	8
				23	6	8	9

The 21 down can only be 4 + 8 + 9 or 5 + 7 + 9 or 6 + 7 + 8 now, so this square can't be 1, 2, 3.

#7

3	10	6		16	12	13	23
7	2	4	1	24	9	5	2
10	1	6	3	7	4	8	9
		3	2	1	10	1	3
			11	4	5	2	
	13	8	4	2	7		
13	3	1	9	15	1	6	4
29	7	5	8	9	8	5	1
14	1	2	5	6	13	9	3

The 10 down can only be 1 + 9 or 2 + 8 or 4 + 6 now, so this square can't be 1, 2, 3, 4, 5, 7.

#8

			9	27	4		
		25	9	6	7	3	
		14	8	1	5	10	6
24	9	8	7	20	9	8	1
15	3	1	4	7	9	8	3
11	7	4	10	6	3	1	
		26	9	8	5	4	
		7	4	2	1		

The down runs in columns 1–2 make a block. The across runs crossing it add to more than the block by 18, so the squares sticking out make 18. The others are already 11, so this one is 7.



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

#9

				6	5	30			
			17	5	3	9		5	13
			10	1	2	7	13	4	9
						16	3	8	1
				15	31				4
			28	5	8	6	9		
				15	2	1	5	7	
			14	10					
			27	9	3	8	7	3	4
			12	5	7	13	9	1	3
						9	6	2	1

The down runs in columns 1–2 make a block. The across runs crossing it add to more than the block by 15, so the squares sticking out make 15. So this square can't be 4, 5, 6, 9.

#10

					13	3	9		
				7	1	2	4	29	30
				6	4	21	3	1	2
				9	1	3	5	19	3
								3	7
				25	10	7	2	1	4
				9	4	2	3		10
				8	7	1	12	8	1
				13	9	3	1	20	3
				15	5	4	3	1	2
					15	8	3	4	

The 13 down can only be $1 + 3 + 4 + 5$ now, so this square can't be 2.