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Add to 200

Example

5	6
1	4

5 6
+ 1 4
= 7 0

51 + 64 = 115

answer

115 + 70 = 185

how do we know if are answer will be odd or even ?

a quick way to know if our answer will be odd or even is by ading the to left and the bottom right numbers together.

Example

1	(5)
(3)	2

5 + 3 = 8

this answer will be odd

4	(2)
(5)	6

2 + 5 = 7

this answer will be odd

Example

2	(3)
(5)	7

3 + 5 = 8

Because 3+5 = 8

this means that the answer will be even

8 | 1	+ 8 1	8 1		From practacing, the
1 | 9	1 9	+ 1 9	200	are some sequences
	1 0 0 =	1 0 0		that i zound to work:
4 | 5	+ 4 5	+ 4 5		
5 | 5	5 5	5 5	200	the top right hand
	1 0 0	1 0 0		number and the
				bottom left hand
6 | 3	+ 6 3	+ 6 3		number need to add to
3 | 7	3 7	3 7	200	an even number as
	1 0 0	1 0 0		200 is also an even
				number.
5 | 4	+ 5 4	+ 5 4	200	
4 | 6	4 6	4 6		I then zound the
	1 0 0	1 0 0		sum of the top row
				needed to equal 9, and
7 | 2	+ 7 2	+ 7 2	200	the sum of the numbers
2 | 8	2 8	2 8		in the left hand colum
	1 0 0	1 0 0		needed to equal 9.
				Finally the sum of the
3 | 6	+ 3 6	+ 3 6		right hand columns
6 | 4	6 4	6 4	200	needed to equal 10.
	1 0 0	1 0 0		
				using this sequence,
2 | 7	+ 2 7	+ 2 7	200	I zound 8 ways of
7 | 3	7 3	7 3		making 200.
	1 0 0	1 0 0		
1 | 8	+ 1 8	+ 1 8	200	
8 | 2	8 2	8 2		
	1 0 0	1 0 0		
0 | 9	+ 0 9	+ 0 9	200	
9 | 1	9 1	9 1		
	1 0 0	1 0 0		

0	0	+	0 0	+	0 0	
0	1		0 1	=	0 1	= 2
			1	+	1	
0	0		0 0		0 0	
0	2		0 2		0 2	= 4
			2	+	2	
0	0		0 0		0 0	
0	3		0 3		0 3	= 6
			3	+	3	
0	0		0 0		0 0	
0	4		0 4		0 4	=
			4	+	4	8
0	0		0 0		0 0	
0	5		0 5		0 5	
			5	+	5	= 10
0	1		0 1		0 0	
0	0		0 0		1 0	
			1	+	1 0	= 11
0	0		0 0		0 0	
0	6		0 6	+	0 6	
			6		6	= 12
0	1		0 1		0 0	
0	1		0 1	+	1 1	
			0 2		1 1	= 13
0	0		0 0		0 0	
0	7		0 7	+	0 7	
			7		7	= 14
0	1		0 1		0 0	
0	2		0 2	+	1 2	
			3		1 2	= 15

I worked sequences using the lowest numbers, starting 00+01 and increasing by 1 each time.

From following this sequence I found that the only sums that could not be made where 1, 3, 5, 7 and 9

0	0
0	8

0 0 + 0 8 = 8 | 0 0 + 0 8 = 16

0	1
0	3

0 1 + 0 3 = 4 | 0 0 + 1 3 = 13 | 17

0	0
0	9

0 0 + 0 9 = 9 | 0 0 + 0 9 = 9 | 18

0	1
0	4

0 1 + 0 4 = 5 | 0 0 + 1 4 = 14 | 19