



# WPF PUZZLE GP 2019 SOLUTION BOOKLET

## 1. Arithmetic Separation [Andrey Lemesh] (19 points)

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

1 →

1	7
×	1
5	1
1	7
2	2
1	

3	1
×	2
1	2
1	2
6	2
7	4
4	

## 2-3. Clouds [Andrey Bogdanov] (30, 46 points)

2

6	6	2	5	8	6	8	5	2	2
5									
4									
4									
1									
1									
4									
1									
1									
5									
1									
1									

3

2	5	9	7	7	0	9	9	3	7	9	9
3											
2											
2											
2											
7											
3											
3											
3											
3											
0											
1											
1											

## 4-5. Arithmetic Square (Unassigned) [Andrey Lemesh] (28, 43 points)

18, 18, 18, 18, 20, 20

11, 12, 12, 12, 12, 21

4a →  $6 \times 1 \times 3 = 18$   
 $5 \times 2 + 8 = 18$   
 $7 + 9 + 4 = 20$   
 $18$   $18$   $20$

5a →  $5 + 8 - 1 = 12$   
 $6 - 2 + 7 = 11$   
 $9 \div 3 \times 4 = 12$   
 $21$   $12$   $12$

## 6-7. Four Winds [Ivan Grishchenko] (20, 56 points)

6 → 6 4 3 7 4 1 9 2 4 7

7 → 3 5 3 3 1 3 6 4 6 5 1 4

## 8-9. Skyscrapers [Andrey Bogdanov] (20, 23 points)

8a →

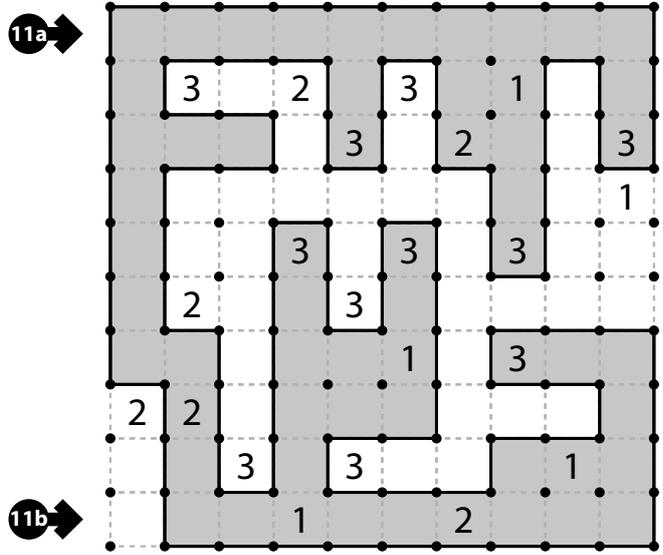
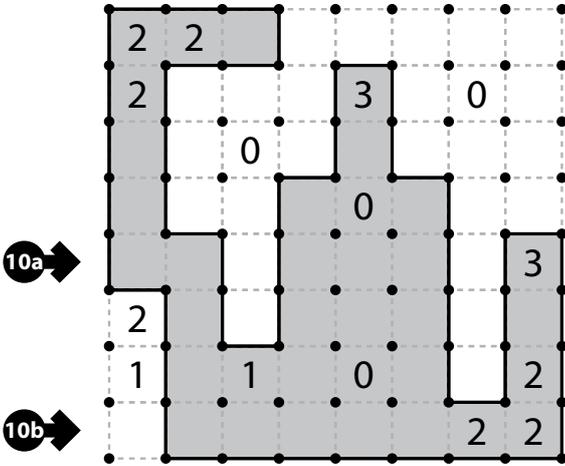
4	2	3	1	2			
4	2	3	4	1	6	5	4
3	1	6	2	5	4	3	1
4	3	4	5	6	1	2	2
5	2	6	4	3	1	4	4
6	5	1	3	2	4	2	2

9a →

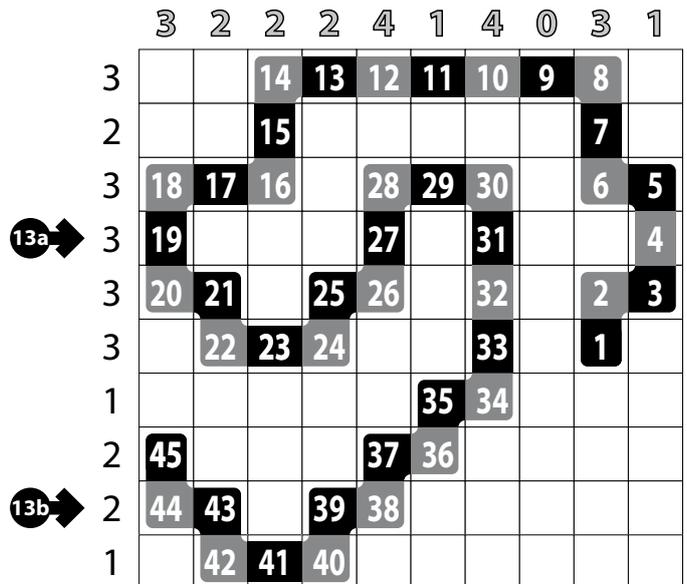
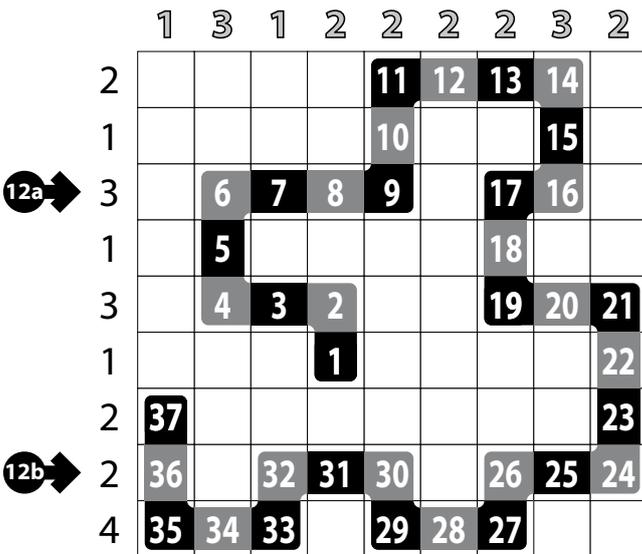
2	2	4	3				
2	4	1	6	5	2	3	3
2	6	5	4	3	1	5	5
6	5	1	3	4	2	4	4
3	4	2	1	6	5	2	2
5	3	4	2	1	6	6	4
4	1	2	3	6	5	4	4



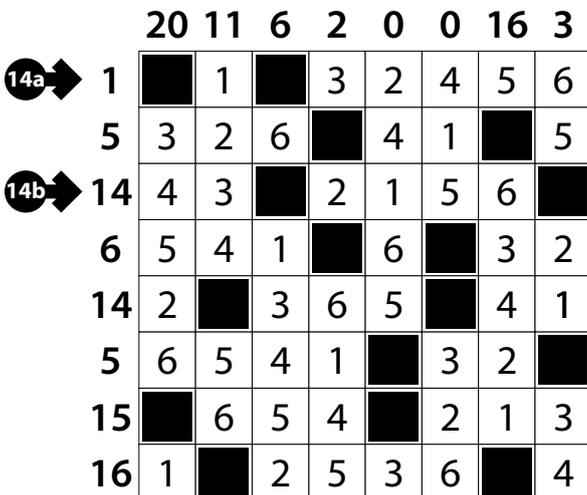
**10-11. Slitherlink (Unequal Lengths)**  
[Dmitry Grishchenko] (39, 62 points)



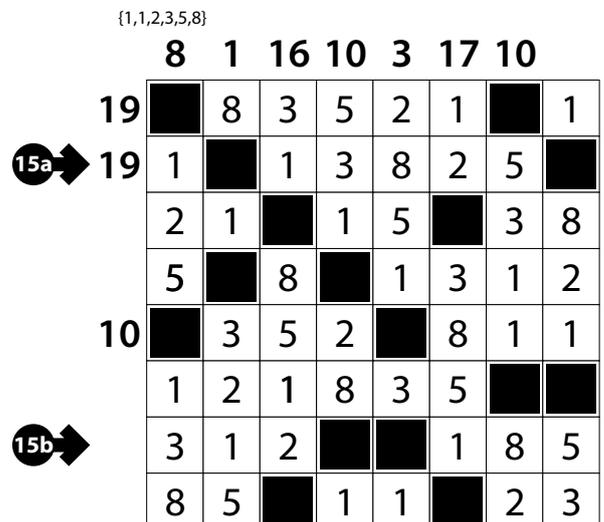
**12-13. Snake (Striped, Length, Ends)** [Andrey Bogdanov] (59, 78 points)



**14. Doppelblock** [Dmitry Grishchenko] (30 points)



**15. Doppelblock (Variable)** [Dmitry Grishchenko] (80 points)





**16. Doppelblock (Parquet, Liar) [Dmitry Grishchenko] (57 points)**

	13	5	10	9	1	0	2	11
12			1	■	3	4	5	■
16a → 4		2	■	4	■	1	3	5
16b → 0	■	■		5	1	3	4	2
2	3	1		■	2	■	4	
7	1	4	3	■			2	■
8	4	■	2	1		5	■	3
6	5	3	■	2	4	■		1
14	■	5	4	3	2	■		

**17. Slalom [Ivan Grishchenko] (64 points)**

17a →

17b →

**18. Goats and Wolves [Ivan Grishchenko] (50 points)**

18 → 0 4 9 0 0 0 3 6 8 8 0

**19. Arithmetical City [Ivan Grishchenko] (151 points)**

{0,1,2,3,4,5,6,7,8,9}

19a →

19b →