

MATHEMA

FUTOŠIKI Z RAČUNSKIMI OPERACIJAMI



VAJE PRI TEKMOVANJU ZA PRIZNANJE
LOGIČNE POŠASTI

5. IN 6. RAZRED

NAVODILA:

V $n \times n$ kvadratkov moraš vpisati začetna naravna števila od 1 do n , tako da bo v vsaki vrstici in v vsakem stolpcu nastopalo vseh n števil ter, da bodo izpolnjene vse relacije.

$x|y$ pomeni, da x deli y ,

$x \cdot 2y$ pomeni $2x=y$,

$x:2y$ pomeni $x=2y$,

$x+2y$ pomeni $x+2=y$,

$x-2y$ pomeni $x-2=y$.

ZGLED:

□ □ > □ □ □

1 □ > □ □ □

□ □ +1 □ □ :2 □

□ > □ < □ □ -2 □

□ < □ □ □ □ 3

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

REŠITVE SO NA STRANI 11.



1.

$$\square < \square < \square < \square$$

$$\square > \square > \square > \square$$

$$\square < \square > \square < \square < 2$$

$$2 > \square > \square < \square$$

2.

$$\square < \square + 1 > \square > \square$$

$$\square + 1 < \square < \square < 4$$

$$\square < \square < \square < \square$$

$$\square > \square > \square < \square$$

3.

$$\square > \square < \square - 1 < \square$$

$$\square - 1 < \square > \square < \square$$

$$\square < \square < 2 < \square$$

$$\square > \square > \square < \square$$

4.

$$\square < \square < 1 < \square$$

$$\square > \square + 2 < \square < 1$$

$$\square < \square - 2 < \square < \square$$

$$\square > \square < \square > \square$$

5.

$$\square < \square < \square > \square$$

$$\square < \square < \square < \square$$

$$3 > \square < \square < \square$$

$$1 \cdot 2 < \square < \square < \square$$

6.

$$\square < 3 < \square < \square$$

$$4 - 2 < \square < \square < \square$$

$$\square > \square < \square - 2 < \square$$

$$\square < \square - 2 < \square < \square$$



7.

$$\square + 1 \square = \square$$

$$\square \square = 3$$

$$\square < \square$$

$$\square + 2 \square - 1 \square + 2 \square = \square$$

8.

$$\square + 2 \square = \square$$

$$\square < \square < \square$$

$$\square \square \square \square$$

$$\square - 1 \square : 2 \square = \square$$

9.

$$2 \square \square \square$$

$$\square - 1 \square \square \square$$

$$\square + 1 \square + 1 \square = \square$$

$$\square > \square \cdot 2 \square = \square$$

10.

$$\square < \square < \square \square$$

$$\square \square \cdot 2 \square < \square$$

$$\square 2 \square \square$$

$$\square \square \square + 1 \square = \square$$

11.

$$\square > \square \square - 1 \square = \square$$

$$\square \square + 2 \square > 3$$

$$2 + 1 \square \square \square$$

$$\square \square \square \square$$

12.

$$\square \square < \square > 3$$

$$1 \square - 1 \square \square$$

$$\square \square < \square \square$$

$$\square \square > \square \square$$



13.

$$\square > \square \cdot 2 \quad 4 + 1 \square$$

$$4 > \square \quad 3 \square \square$$

$$\square \square \square \square \square$$

$$\square \square - 1 \square \quad \square - 2 \square$$

$$3 > \square \quad \square < \square$$

14.

$$1 \square \square - 1 \square \square$$

$$\square \square > \square \quad 5 \square$$

$$\square > \square \cdot 2 \square < \square \square$$

$$5 \square \square > \square < 4$$

$$\square < \square \square \square \square$$

15.

$$\square > \square < \square \quad \square > \square$$

$$\square \square \quad 4 > \square < \square$$

$$\square \square \square \quad 4 \square$$

$$\square \square \square \quad \square + 1 \square$$

$$\square \square + 1 \quad 3 \square > \square$$

16.

$$\square < \square \quad \square - 1 \square \square$$

$$\square \square - 2 \square \square \square$$

$$\square < 2 \square \square - 1 \square$$

$$2 < \square \square \square \square$$

$$\square \square + 2 \square \quad \square \cdot 2 \square$$

17.

$$\square > \square + 2 \square + 2 \square \square$$

$$\square \square \square - 1 \square \square$$

$$\square \square - 2 \square \quad \square : 2 \square$$

$$\square \square \square - 2 \square \square$$

$$\square > \square \square \square \square$$

18.

$$\square + 1 \square \quad \square - 2 \square \square$$

$$\square \square \quad 3 \square - 2 \square$$

$$\square \square - 2 \square \quad \square < \square$$

$$\square < \square \square \square \square$$

$$\square \square < \square \quad \square > \square$$



19.

$$\begin{array}{cccccc} \square & > & \square & \square & +1 & \square & \square \\ \square & \square & \square & > & \square & \square \\ \square & 4 & -1 & \square & \square & \square \\ \square & +2 & \square & +1 & \square & +1 & \square & \square \\ 2 & \square & > & \square & \square & \square \end{array}$$

20.

$$\begin{array}{cccccc} \square & \square & \square & \square & \square \\ \square & \square & +2 & \square & -1 & \square \\ \square & \square & \square & +2 & \square & \square \\ 3 & \square & -1 & \square & < & 4 & \square \\ \square & < & \square & \square & > & \square & < & \square \end{array}$$

21.

$$\begin{array}{cccccc} \square & \square & > & \square & \square & \square \\ 1 & \square & > & \square & \square & \square \\ \square & \square & +1 & \square & \square & :2 & \square \\ \square & > & \square & < & \square & \square & -2 & \square \\ \square & < & \square & \square & \square & \square & 3 \end{array}$$

22.

$$\begin{array}{cccccc} \square & \square & \square & \square & < & 5 \\ \square & :2 & \square & \square & -2 & \square \\ \square & \square & > & \square & < & \square & \square \\ \square & \square & > & \square & \square & 4 \\ \square & < & \square & \square & +1 & 4 & \square \end{array}$$

23.

$$\begin{array}{cccccc} \square & \square & \square & \square & \square \\ \square & \square & < & \square & > & \square & +1 & \square \\ 1 & \square & -1 & \square & < & \square & \square \\ \square & \square & 3 & \square & \square \\ 2 & -1 & \square & < & \square & \square & > & \square \end{array}$$

24.

$$\begin{array}{cccccc} \square & \square & \cdot 2 & \square & +2 & \square & +1 & \square \\ \square & \square & -2 & \square & -2 & \square & \square \\ \square & \square & +2 & \square & 3 & \square \\ \square & +2 & \square & \square & \square & -2 & \square \\ \square & \square & \square & \square & \square & \square \end{array}$$



25.

$$\square < \square - 2$$

$$3 + 1 < \square$$

$$4 < \square > \square$$

$$\square - 2 < \square - 2 < \square : 2$$

$$\square < \square < \square < \square < \square$$

26.

$$\square < \square < 3 < \square < \square$$

$$\square - 1 < \square < \square < 1$$

$$\square < \square < 2 < \square + 1$$

$$\square > \square < \square < \square < \square$$

$$4 < \square < \square < \square > \square$$

27.

$$\square + 2 < \square < 2 \cdot 2 < \square < \square$$

$$\square + 2 < \square < \square < \square < \square$$

$$\square < \square < \square < \square + 2$$

$$4 > \square + 2 < \square \cdot 2 < \square$$

$$\square > \square < \square < \square < \square$$

28.

$$\square < \square < \square < \square < \square$$

$$\square > \square < 2 < 3$$

$$3 < \square < \square < \square < \square$$

$$\square < \square < \square < \square + 1$$

$$\square < \square > \square \cdot 2 > \square$$

29.

$$\square < \square < 4 - 2 < \square - 1$$

$$\square < \square < \square < \square < \square$$

$$5 > 2 - 1 < \square < \square < \square$$

$$\square < \square > 3 < \square < \square$$

$$\square < \square < \square < \square > \square$$

30.

$$\square < \square < \square + 1 < \square + 2$$

$$\square < \square < \square < \square < \square$$

$$\square < \square < \square < 1 + 2$$

$$\square < \square < 5 < \square < \square$$

$$\square > 2 < \square < \square < \square$$



31.

				<	5	2
			+2			
	2		>	1		
5			>			
	1	2				
		3		-1		

33.

	2					1
1				>	3	
		3		<		
6			>	1		-2
	4		+2			
				4		

32.

		4	1		
	>		:2		-1
5		+1		<	6
				5	
3			5		
				4	

34.

	<		1	2		
			+1	3		
5	1					4
					>	
			+1			1
		>				



35.

$\square - 2$	\square	4	6	\square
\square	\square	$\square + 2$	$\square - 1$	\square
6	\square	\square	3	\square
\square	\square	2 <	\square	\square
\square	3	\square	\square	1
\square	$\square - 2$	1	\square	\square

37.

1	\square	\square	\square	$\square + 1$
\square	2 - 1	\square	$\square - 1$	\square
5	6	4	\square	\square
\square	\square	\square	\square	\square
\square	$\square - 1$	\square	< 5	\square
\square	\square	6	4	\square

36.

\square	\square	$\square - 1$	\square	\square
\square	4	\square	5	6
\square	\square	$\square \cdot 2$	$\square - 1$	\square
\square	6	\square	2	\square
\square	\square	\square	\square	$\square : 2$
$\square >$	\square	1	\square	\square

38.

\square	\square	$\square <$	\square	$\square + 2$
6	2	\square	\square	$\square <$
2	$\square >$	\square	\square	3
\square	3	\square	\square	\square
1	\square	6 - 2	\square	\square
\square	\square	3	\square	5



39.

			+2	4	
3			>		
1			-1		4
		-2		3	
	6				
	2	+1			

41.

	>			>		3
	3				-1	
	2			6		
	1	2		>		
						1
		6	4		-1	

40.

6	3		>			
		6		2	-1	
				+2		
						4
	4	2	<			
5		>			3	



REŠITVE

1.

4	1	2	3
3	2	4	1
1	4	3	2
2	3	1	4

2.

2	3	4	1
1	2	3	4
4	1	2	3
3	4	1	2

3.

2	1	4	3
3	2	1	4
4	3	2	1
1	4	3	2

4.

2	3	1	4
3	2	4	1
1	4	2	3
4	1	3	2

5.

4	3	2	1
2	4	1	3
3	1	4	2
1	2	3	4

6.

2	3	1	4
4	2	3	1
3	1	4	2
1	4	2	3

7.

4	2	3	1
2	4	1	3
3	1	4	2
1	3	2	4

8.

2	4	1	3
1	2	3	4
3	1	4	2
4	3	2	1



9.

2	1	4	3
4	3	2	1
1	2	3	4
3	4	1	2

10.

2	3	4	1
4	1	2	3
1	2	3	4
3	4	1	2

11.

4	1	3	2
1	2	4	3
2	3	1	4
3	4	2	1

12.

2	1	4	3
1	3	2	4
4	2	3	1
3	4	1	2

13.

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

14.

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

15.

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

16.

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



17.

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

18.

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

19.

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

20.

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

21.

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

22.

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

23.

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

24.

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



25.

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

26.

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

27.

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

28.

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

29.

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

30.

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

31.

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

32.

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



33.

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

34.

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

35.

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

36.

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

37.

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

38.

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

39.

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

40.

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



41.

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

