




## МАТЕМАТИКА БЕЗ ГРАНИЦИ

1 КЛАС






ЕСЕН 2020






Имена на ученика: .....
















### УКАЗАНИЯ

1. Моля не отваряйте теста преди квесторът да е дал разрешение.
2. Тестът съдържа 20 задачи със свободен отговор, който записвате под символа: 
3. Всеки верен отговор се оценява с 2 точки, а грешен или непосочен отговор – 0 точки.
4. Времето за работа е не повече от 60 минути.
5. В условията на задачите се използват *естествените числа и 0*. (0, 1, 2, 3, 4, ..., 10, 11, ..., 99, 100, 101, ...)
6. За задачите с числов отговор трябва да се използват *естествените числа и 0*. (0, 1, 2, 3, 4, ..., 10, 11, ..., 99, 100, 101, ...)
7. Забранено е изнасянето на тестовете и черновите на състезателите.
8. По време на състезанието не се допуска чужда помощ от квестора или друго лице.

**ЖЕЛАЕМ УСПЕХ!**

	 <b>ПРОЧЕТИ</b>	 <b>ПОМИСЛИ</b>	 <b>ЗАПИШИ</b>																								
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<b>2</b>	<b>6 → 4 → 2 → 0</b>	<b>7 → 5 → ? → 1</b> <b>? =</b>	.....																								
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	 <b>ПРОЧЕТИ</b>	 <b>ПОМИСЛИ</b>	 <b>ЗАПИШИ</b>																		
<b>7</b>	<table border="1" style="margin: auto;"> <tr><td>□</td><td>●</td><td>○</td></tr> <tr><td>●</td><td>●</td><td>□</td></tr> <tr><td>○</td><td>□</td><td>●</td></tr> </table> <p>□ = 3   ● = 4   ○ = 2</p>	□	●	○	●	●	□	○	□	●	<table border="1" style="margin: auto;"> <tr><td>●</td><td>□</td><td>●</td></tr> <tr><td>□</td><td>○</td><td>□</td></tr> <tr><td>○</td><td>●</td><td>?</td></tr> </table> <p>□ = 3   ● = 4   ○ = 2</p> <p>? =</p>	●	□	●	□	○	□	○	●	?	.....
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<b>8</b>	 <b>2, 3, 3</b>	 <b>1, ?, 3</b>	.....																		
<b>9</b>	$\square + \square = 2$	$\square = ?$	.....																		
<b>10</b>	$\square + \square = 2$ $\square + \blacksquare = 3$	$\blacksquare = ?$	.....																		
<b>11</b>	$2 \xrightarrow{+1} 3 \xrightarrow{-2} 1$	$4 \xrightarrow{-1} \blacksquare \xrightarrow{+3} ?$ ? ? =	.....																		
<b>12</b>	$2 \uparrow 1 = 2 + 1$ $2 \downarrow 1 = 2 - 1$	$2 \uparrow 2 + 3 \downarrow 3 = ?$ ? =	.....																		

	 <b>ПРОЧЕТИ</b>	 <b>ПОМИСЛИ</b>	 <b>ЗАПИШИ</b>												
<b>13</b>	$\text{☺} + 1 = 3 - \text{☺}$	$\text{☺} = ?$	.....												
<b>14</b>	$5, \bullet, 3, \circ, 1, 0$	$\bullet - \circ = ?$	.....												
<b>15</b>	$2 + 4 > \bullet > 5 - 1$	$\bullet - 3 = ?$	.....												
<b>16</b>	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">3</td> <td style="text-align: center;">4</td> </tr> <tr> <td style="text-align: center;">8</td> <td style="text-align: center;">7</td> <td style="text-align: center;">6</td> </tr> </table>	2	3	4	8	7	6	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">3</td> <td style="text-align: center;">2</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="text-align: center;">4</td> <td style="text-align: center;">5</td> <td style="text-align: center;">?</td> </tr> </table> <p style="text-align: center;">? =</p>	3	2	1	4	5	?	.....
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<b>17</b>	$1 + 6 > 1 + 5$	$2 + 5 > ? + 6$ ? =	.....												
<b>18</b>	$\rightarrow +1$ $\rightsquigarrow -2$ $5 \rightarrow 6 \rightsquigarrow 4 \rightsquigarrow 2 \rightarrow 3$	$3 \rightarrow \circ \rightsquigarrow \Delta \rightarrow \bullet$ $\bullet = ?$	.....												
<b>19</b>	$\underbrace{1, 2, 3}_3$ $\underbrace{1, 2, 3, 11}_5$	$\underbrace{1, 2, 12, 13}_?$ $? =$	.....												
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