




## МАТЕМАТИКА БЕЗ ГРАНИЦИ

1 КЛАС




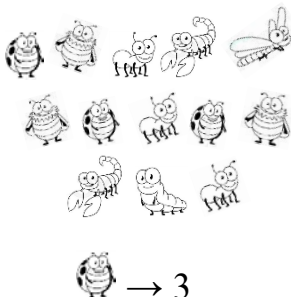
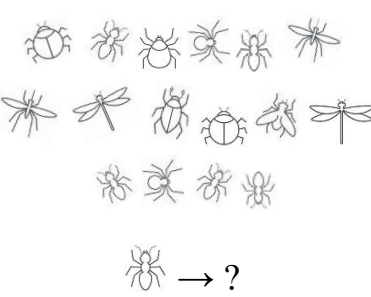
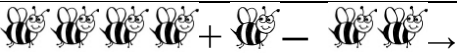



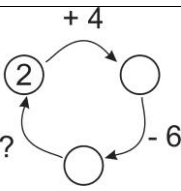
ЗИМА 2022

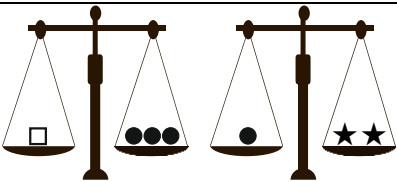
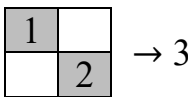
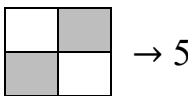
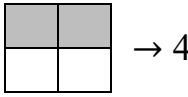
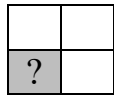
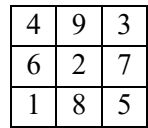
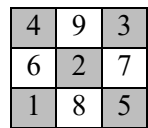
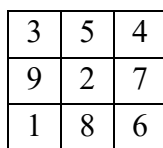


Имена на ученика: .....

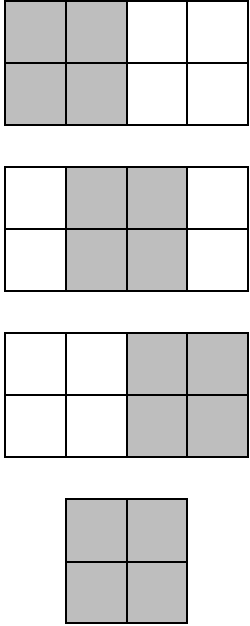
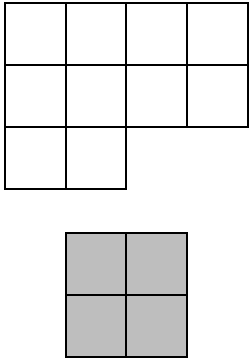
### УКАЗАНИЯ

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, непълен отговор – с 1 точка, 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>РАЗГЛЕДАЙ</b>	 <b>ПОМИСЛИ</b>	 <b>ЗАПИШИ</b>
1	 $\text{beetle} \rightarrow 3$	 $\text{dragonfly} \rightarrow ?$	.....
2	$** = * * * * *$ $* * * = 1(*)$ $? = 1$	$*** = * * * * *$ $* * * * = ?(*)$ $? = \dots$	.....
3	 $4 + 1 - 2 = ?$ $? = 3$	 $\dots + \dots - \dots = ?$ $? = \dots$	.....
4	$1 \xrightarrow{+1} 2 \xrightarrow{+2} 4 \xrightarrow{+3} 7 \xrightarrow{+4} ? \xrightarrow{+5} 16$ $? = 11$	$0 \xrightarrow{+1} \dots \xrightarrow{+2} \dots \xrightarrow{+3} \dots \xrightarrow{+4} \dots \xrightarrow{+5} ?$ $? = \dots$	.....
5	$6 \xrightarrow{-1} 5 \xrightarrow{+2} 7 \xrightarrow{-3} 4 \xrightarrow{+4} ? \xrightarrow{-5} 3$ $? = 8$	$3, 2, 4, 1, 5, ?$ $? = \dots$	.....
6	$2, 3, 7 \rightarrow 2 + 3 + 7 = 12 \rightarrow 1 + 2 = ?$ $? = 3$	$4, 5, 5 \rightarrow \dots + \dots + \dots = \dots \rightarrow \dots + \dots = \rightarrow ?$ $? = \dots$	.....
7	 $1 + 4 + 5 = 10$	 $\dots + \dots + \dots = ?$ $? = \dots$	.....
8	$10, 11, 12, 13, 14$ $8, 9, 10, \dots, 14$ $\underbrace{\quad\quad\quad}_6$ $? = 6$	$10, 11, 12, 13, 14, 15, 16$ $10, \dots, 16$ $\underbrace{\quad\quad\quad}_?$ $? = \dots$	.....
9	 $? = \dots$	$? = \dots$	.....

10	$1 + 1 + 1 = ? - 1$ $? = 4$	$2 + 2 + 2 = ? - 2$ $? = \dots$	.....
11	 $\square = 3 (\bullet)$ $2(\star) = 1 (\bullet)$	$2 (\square) + 4 (\star) = ? (\bullet)$	.....
12	$9 + 2 + 3 = 1?$ $9 + 2 + 3 = 14 \rightarrow ? = 4$	$3 + 5 + 2 + 3 = 1?$ $? = \dots$	.....
13	 $\rightarrow 3$   $\rightarrow 5$   $\rightarrow 4$	 $? = \dots$	.....
14	   $1 + 2 + 3 + 4 + 5 = ?$ $? = 15$	 $\dots + \dots + \dots + \dots + \dots = ?$ $? = \dots$	.....
15	 $? \rightarrow >$	 $? \rightarrow \dots$	.....
16	$\square = 5 - 2$ $\bigcirc = 8 - 4$ $\Delta = 2 + 3$ $3 < ? < 5$ $? \rightarrow \bigcirc$	$\square = 4 + 0$ $\bigcirc = 6 - 3$ $\Delta = 4 + 1$ $3 < ? < 5$ $? \rightarrow \dots$	.....

17	$2, 1, 4 \rightarrow 1 < 2 < 4$ $1 + 4 - 2 = 3$ $? = 3$	$5, 1, 2 \rightarrow \dots < \dots < \dots$ $\dots + \dots - \dots = ?$ $? = \dots$	.....
18	$8 + \star < 10$ $\star \rightarrow \underbrace{0, 1}_2 \rightarrow ? = 2$	$7 + \star < 11$ $\star \rightarrow \underbrace{\dots}_? \rightarrow ? = \dots$	.....
19	 <p>?</p> <p>? = 3</p>	 <p>?</p> <p>? = ...</p>	.....
20	$\ast < \ast < \odot$ $\ast + \ast + \odot = 5$ $\underbrace{0 + 1 + 4 = 5, 0 + 2 + 3 = 5}_2$ $? = 2$	$\ast < \ast < \odot$ $\ast + \ast + \odot = 6$ $? = \dots$	.....