Each homework has problems of varying difficulty. It is not expected that you can do all of them, so do not worry if some problems seem difficult and you cannot solve them. Please, try and show your way of thinking. Make sure to **show your work, not just an answer.** If you have questions regarding homework problems or material, please, email me at stepanenko@schoolnova.org.

   Please, **write homework on a *separate quadrille* piece of paper.**

Problems

1. Mary and Julia are twins. They invited 28 friends to their birthday party. Mary wrote 3 time as many invitation cards as Julia did. How many cards did Julia write?

2. A cow weighs 20 times as much as sheep weights. Together the cow and the sheep weight 2100 lb. How many pounds does the sheep weight? How many pounds does the cow weight?

3. There are 93 students in the 1st, 2nd and 3rd grades altogether. The number of students in the 1st and 2nd grades is 62, and in 2nd and 3rd grades is 64. How many students are there in each grade?

4. Look at the squares with points for 10 seconds. Cover the upper part of the picture and draw point in the empty squares.

5. Replace the addition with multiplication:
   Example:

$$1\,4 + 1\,4 + 1\,4 + 1\,4 = 4 \times 1\,4$$

$$x + x + x = 3 \times x$$

    a. $120 + 120 + 120 + 120$

    b. $x + x + x + x + x;$

    c. $\underbrace{82 + 82 + \ldots + 82;}_{100 \text{ times}}$

    d. $\underbrace{a + a + \ldots + a,}_{n \text{ times}}$

6. Table in the picture on the right should be filled by the numbers 1, 2, 3, 4, and 5 in such a way that no number can be put more than once in any row, column or diagonal. What number should be in the middle cell?

3	4			5
2				
		?		
				4

7. Compare without doing calculations
   (put <, >, or =):

    a. $2453 + 235$ ____ $2453 + 236$

    b. $2341 - 123$ ____ $2341 - 122$

    c. 234×123 ____ 234×122

    d. $456 \div 4$ ____ $456 \div 3$

    e. $b + 235$ ____ $b + 236$

8. Calculate by the most convenient way:

    a. $2608 + 529 + 392 + 271 =$

    b. $1016 + 704 + 250 + 884 + 296 =$