

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](mailto:stepanenko@schoolnova.org).


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


**Example:**

A dog weighs 2 pounds more than a cat. Together, a dog and a cat weigh 12 pounds. How many pounds does the dog weigh? How many pounds does the cat weigh?

Problem.


What do we know?




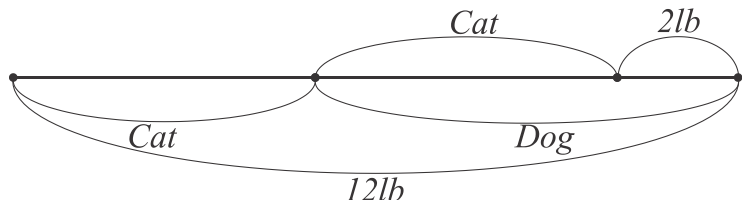
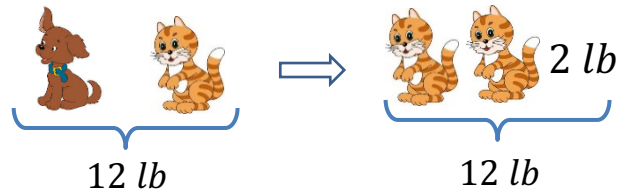
$$= \text{cat} + 2$$


$$+ = 12 \text{ lb}$$

What is the question?



$$=? \text{ lb}$$


$$=? \text{ lb}$$


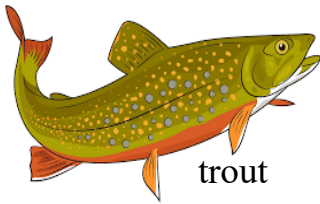
## Problems



1. A cow weighs 300 pounds more than 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?

2. 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?

3. There are 4 times more trout in the lake than perch. In total there are 1585 perch and trout. How many trout and how many perches are in the lake?

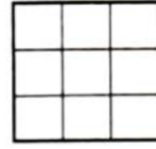
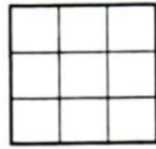
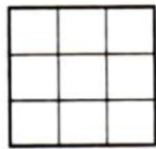
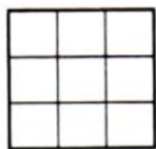
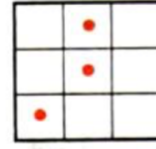
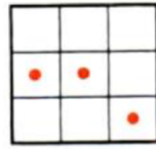
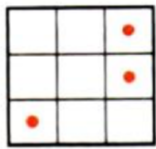
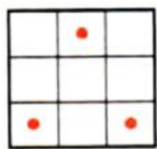


trout



perch

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:

$14$	+	$14$	+	$14$	+	$14$	=	$4$	$\times$	$14$																							
$x$	+	$x$	+	$x$	=	$3$	$\times$	$x$																									

a.  $120 + 120 + 120 + 120$

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

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

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

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.  $234 \times 123$  \_\_\_  $234 \times 122$

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

e.  $b + 235$  \_\_\_  $b + 236$