Can we count like Gauss?

Math

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MYP 1

Gauss theory

One day when Gauss was just a little boy, his teacher asked the class add up all the numbers from 1 to 100 just as the teacher asked this question gauss shot his hand up and he said 5050. He was correct.
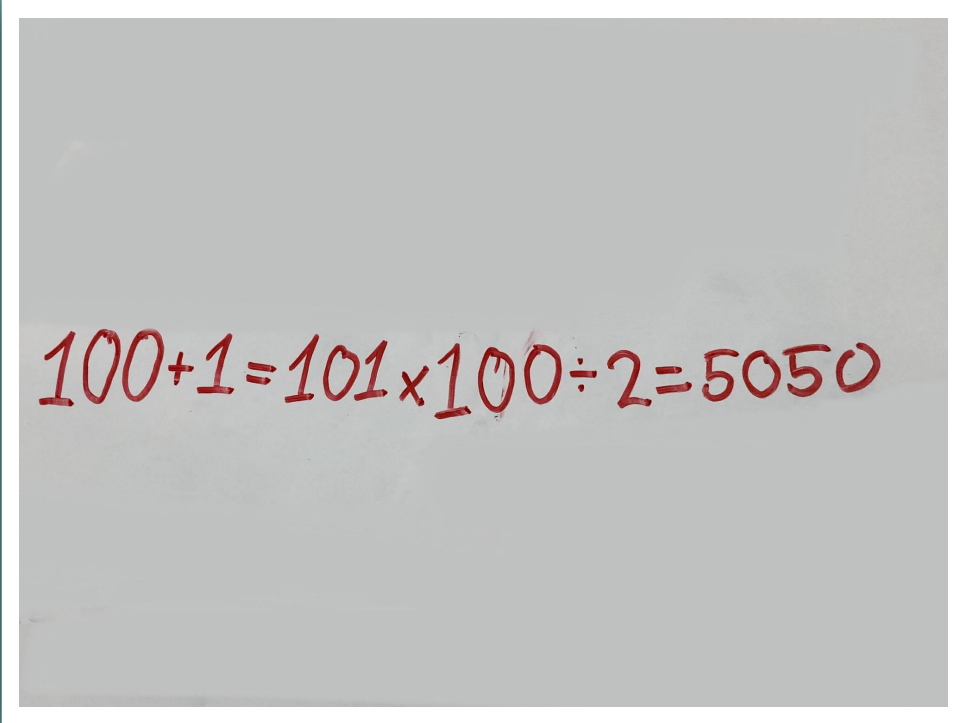
There are 50 pairs from 1 to 100

$$1 + 100 = 101$$
$$2 + 99 = 101$$
$$\cdots$$
$$101 \times 50 = 5050$$

How he solved it

How we solved it

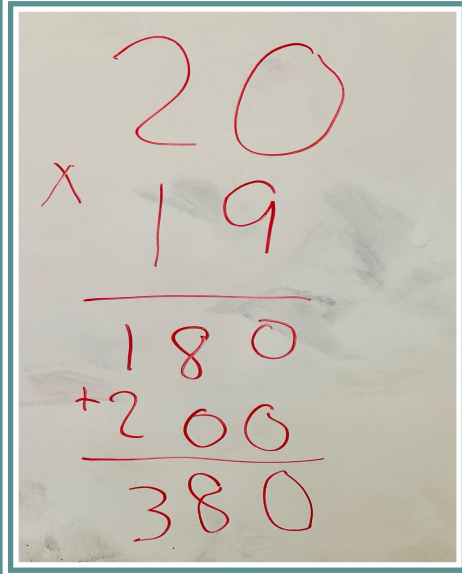$$100+1=101\times100\div2=5050$$

We don't need to count the pairs

We are gonna show you how to do 1….19

$$19 + 1 = 20$$

We first:

Then we

multiply the original number by the new one number plus the first number, which in this case is 20.

And at last

we divided the answer by 2.

Answer:190

The end

Thanks for your attention