

01

My house number is a three-digit number. The sum of this number and its three individual digits is 429. What is the product of the three digits which make up the house number ?

Your solution here:

02

Integers from 1 to 20 are listed below in such a way that the sum of each adjacent pair is a prime number. Missing numbers are marked as stars.

20,  16, 15, 4, , 12, , 10, 7, 6, , 2, 17, 14, 9, 8, 5, 18, .

Which number goes in the place of each star ?

Your solution here:

03

The sum of 2021 and a number  $n$  is divisible by 23 and 19. Find the smallest of number  $n$ .

Your solution here:

04

If  $n$  is the product of two primes whose sum is 999, compute the value of  $n$ .

Your solution here:

05

If the number  $N = 30a0b03$  is divisible by 13, then 'a' cannot take which values among the digits 0 to 9.

Your solution here:

06

Find the tens digit in the following product.  
 $4 \times 5 \times 6 \times 7 \times 8 \times 9 \times 10 \times 11 \times 12 \times 13 \times 14.$

Your solution here: