

01

P is a prime number, 'n' is a positive integer and $n + p = 2020$. If LCM of 'n' and 'p' is 38019, then find the values of 'p' and 'n'.

Your solution here:

02

Is there a two digit number ab such that $ab - ba$ is a prime number.

Your solution here:

03

The diagram below is to be completed so that each box contains a whole number, the total of the numbers in the thirteen boxes is 2020 and the sum of the numbers in any three consecutive boxes is always the same. In how many different ways is it possible to complete the diagram in this way ?



Your solution here:

04

The number 64 has the property that it is divisible by its units digit. How many whole numbers between 10 and 50 have this property ?

Your solution here:

05

If $a \times b = 2$, $b \times c = 24$, $c \times a = 3$ and a , b and c are all positive. What is the value of $a + b + c$?

Your solution here:

06

Two brands of chocolate are available in packs of 24 and 15 respectively. If I need to buy an equal number of chocolates of both kinds, then what is the least number of boxes of each kind I would need to buy?

Your solution here: