

1997 HI10

若十位數 $1357p1357p$ 可被 9 整除，求 p 之值。

If the ten-digit number $1357p1357p$ is divisible by 9, find the value of p .

1999 HG5

把由 1 開始的自然數依次寫下去，直寫到第 198 位為止

$\underbrace{123456789101112\cdots}_{198 \text{ 位}}$ 。求所得數被 9 除的餘數。

Natural numbers are written in order starting from 1 until 198th digit as shown

$\underbrace{123456789101112\cdots}_{198 \text{ digits}}$. If the number obtained is divided by 9,

find the remainder.

2005 HG4

當一個三位數減去它的各個數位的數字的和，其差還是一個三位數 $\overline{46x}$ ，

求 x 的值。

When a 3-digit number minus the sum of the values of the three digits,

the difference is a 3-digit number $\overline{46x}$, find the value of x .

2017 HI6

若把一組自然數之和 $1 + 2 + 3 + \cdots + 2015 + 2016 + 2017$ 除以 9，餘數是甚麼？

Determine the remainder when the sum of natural numbers

$1 + 2 + 3 + \cdots + 2015 + 2016 + 2017$ is divided by 9.

2018 FI2.3

若 c 是 $2^{10} - 2^8 + 2^6 - 2^4 + 2^2$ 除以 9 的餘數，求 c 的值。

If c is the remainder **when** $2^{10} - 2^8 + 2^6 - 2^4 + 2^2$ **is** divided by 9, determine the value of c .

Answers

1997 HI10 2	1999 HG5 6	2005 HG4 8	2017 HI5 1	2018 FI2.3 1
----------------	---------------	---------------	---------------	-----------------