#### 1983 FG8.4

若果 mnp、nmp、mmp 及 nnp 為十進制數字,其位值是由 m、n 及 p 組成, 且 mnp - nmp = 180 及  $mmp - nnp = d \circ 求 d$  的值。

If mnp, nmp, mmp and nnp are numbers in base 10 composed of the digits m, n. In the attached division, the dividend in line (a) is divided by the divisor in line and p, such that: mnp - nmp = 180 and mmp - nnp = d. Find the value of d. 1984 FG8

如圖所示加法中,每字母代表由零至九之不同整數。已知S=9,O=零, E=5。求下列字母所代表之數字'M', 'N', 'R', 'Y':

If all letters are different integers between 0 and 9 in the following calculation, find the number represented by 'M', 'N', 'R', 'Y':

### 1986 FG8 2000 HI8

在所示乘法中,不同字母代表可能為2、4、5、6、7、8、9之不同整數。 求 A、B、C及D的值。

In the given multiplication, different letters represent different integers whose possible values are 2, 4, 5, 6, 7, 8, 9. Find the values of A, B, C, D.

$$\begin{array}{c}
1 \text{ A B C D E} \\
\times \quad 3 \\
\hline
\text{A B C D E 1}
\end{array}$$

#### 1987 FG9 1994 HI6 1999 FGS.4

在所示乘法中,不同字母代表由0至9之不同整數。求 A、B、C及D的 值。

If A, B, C, D are different digits, find the values of A, B, C, D.

## 1988 FG8.3-4

三位數  $AAA(其中 A \neq 0)$ 及六位數 AAABBB 滿足下列等式:

The 3-digit number AAA, where  $A \neq 0$ , and the 6-digit number AAABBB satisfy  $求 A \cdot B \cdot C \not \in K$  的值。 the following equality:  $AAA \times AAA + AAA = AAABBB$ . Find the values of A and B.

#### 1989 HG10

在所附除法算式中(見圖三),(a)列的被除數可被(b) 列的除數整除。求(a) 列的被除數。(每一星號\*為由0至9的整數。)

(b). Find the dividend in line (a). (Each asterisk \* is an integer from 0 to 9).

#### 1989 FG7

在下圖所示乘法中,不同字母代表由  $1 \, {f 2} \, {f 9}$  的不同整數。設字母  $O \, {f Q} \, {f J}$  依 次代表 4 及 6。求 G、D、L 及 E 的值。

In the attached multiplication, different letters represent different integers ranging from 1 to 9. If the letters O and J represent 4 and 6 respectively, find the values of G, D, L and E.

$$\begin{array}{ccc}
GOLDEN \\
\times & J \\
DENGOL
\end{array}$$

#### 1990 HG9

在所附乘法算式中(圖三),字母 O、L、Y、M、P、I、A及D代表由 1 至 9 的不同整數,求 A 所代表的整數。

In the attached multiplication, the letters O, L, Y, M, P, I, A, D represent different integers ranging from 1 to 9. Find the number represented by A.

## 1990 FG8

在所示乘法中,字母 $A \times B \times C \otimes K$ (其中A < B)代表由1至9的不同整數。

In the multiplication shown, the letters A, B, C and K  $(A \le B)$  represent different integers from 1 to 9. Find the values of A, B, C, K.

$$\begin{array}{c}
A C \\
\times B C \\
\hline
K K K
\end{array}$$

#### 1991 HG5

在下列乘法算式中 □□□×□□=□□×□□=5568,

每一方格代表由  $1 \subseteq 9$  的一個整數。若以上九個方格所代表的九個整數都不相同,求 $\square\square\square$  所代表的整數。

In the multiplication  $\square\square\square\times\square\square=\square\square\times\square\square=5568$ , each of the above boxes represents an integer from 1 to 9. If the integers for the nine boxes above are all different, find the number represented by  $\square\square\square$ .

## 1991 FG10

在所附除法算式中, 求 $A \cdot B \cdot C \not D$ 的值。

In the division shown, find the values of A, B, C, D.

#### 1994 FG9

 $A \cdot B \cdot C \cdot D$  為由  $0 \le 9$  間的不同整數,而

A, B, C, D are different integers ranging from 0 to 9 and

$$\begin{array}{ccc} & A & B & A \\ \times & A & B & A \\ \hline C & C & D & C & C \end{array}$$

求  $A \cdot B \cdot C$  及 D 的值。Find the values of A, B, C, D.

# 1995 FG9

求 $A \cdot B \cdot C \cdot D = 0$  至 9 間的不同整數,且

Find different integers A, B, C, D are ranging from 0 to 9 and

## 1999 HI10

下列加法算式中,若字母'S'代表 4,那麼字母'A'代表甚麼數字?

In the following addition, if the letter 'S' represents 4, what digit does the letter 'A' represent ?

SEE

#### 2004 FI1.4

已知兩個三位數  $\overline{xyz}$  和  $\overline{zyx}$  的差等於 700-c,其中 x>z。 若 d 是 x+z的最大值,求 d 的值。

Given that the difference between two 3-digit numbers  $\overline{xyz}$  and  $\overline{zyx}$  is 693, where x > z. If d is the greatest value of x + z, find the value of d.

### 2013 FG1.4

用  $1 \cdot 2 \cdot 3 \cdot 4 \cdot 5 \cdot 6$  組成一個位數:ABCDEF,使得 A 能被 1 整除,AB 能被 2 整除,ABC 能被 3 整除,ABCD 能被 4 整除,ABCDE 能被 5 整除,ABCDEF 能被 6 整除。求 A 的最大值。

Using numbers: 1, 2, 3, 4, 5, 6 to form a six-digit number: *ABCDEF* such that *A* is divisible by 1, *AB* is divisible by 2, *ABC* is divisible by 3, *ABCD* is divisible by 4, *ABCDE* is divisible by 5, *ABCDEF* is divisible by 6.

Find the greatest value of A.

#### 2013 FG4.4

如圖五, $A \times B \times C \times D \times E$  代表不同的個位數字。 ABCDE 求 A+B+C+D+E 的值。  $\times$  9 In Figure 5, A, B, C, D, E represent different digits. Find the value of A+B+C+D+E .

## 2014 FG4.3

aabcd 若 a,b,c 及 d 是不同的個位數,且 -daabc,求 d的值。 2014d

If a, b, c and d are distinct digits and  $\frac{a \, a \, b \, c \, d}{-d \, a \, a \, b \, c}$ , determine the value of d.

## **Answers**

1983 FG8.4	1984 FG8	1986 FG8 2000 HI8	1987FG9 1994HI6	1988 FG8.3-4
220	1, 6, 8, 2	4285	1089	A = 9, B = 0
1989 HG10	1989 FG7	1990 HG9	1990 FG8	1991 HG5
110768	1825	7	A=2,B=3,C=7,K=9	174
1991 FG10	1994 FG9	1995 FG9	1999 HI10	2004 FI1.4
A=3,B=1,C=5,D=7	A=2,B=1,C=4,D=9	A=9,B=6,C=8,D=2	9	11
2013 FG1.4	2013 FG4.4	2014 FG4.3		
3	15	2		