

# Rules

By which to determine how many numbers  
a person thinks of - ~~no less~~ Each number to be  
one of the nine digits.

If a person thinks of one number only

Let  $F$  = the number thought of.  $x = 5$

Rule  $\frac{2Fx + x - x}{10} = F$

If two numbers are thought of.

Let  $F$  and  $x$  as before and  $S$  = the second number thought of

Rule  $2Fx + x + S - x$

If two numbers are thought of and both alike

Rule  $2Fx + x + F - x$

If three numbers are thought of

Let  $F$ ,  $x$  and  $S$  as before and  $T$  = the third number thought of  
and  $y = 10$  -

Rule  $2Fxy + xxy + Sy + T - 250$ .

If three numbers are thought of and all alike -

Rule  $2Fxy + xxy + Fy + F - 250$

If four numbers are thought of.

Let  $F$ ,  $x$ ,  $S$  and  $T$  as before and  $L$  = the fourth thought of

Rule  $4Paxy + xxy + 2xSy + 2Tx + L - 250 -$

or

Multiply the cube of 5 by 4 times the first figure

also the cube of 5 by 4

also the square of 5 by four times the second figure

also the square of 5 by 2

also 5 by twice the third figure

To the sum of these products add 5 and also add  
the fourth figure - from the sum of all deduct

555 the remainder will be the four figures  
thought of -

or  
 $OPxxx + 4xxx + 4Sxx + 2xx + xT + x + L - 555 = F.S.P.L$

Rules to  
determine numbers  
thought of —

Rule to determine  
numbers thought of

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