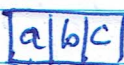


Subtraction Surprise

Let this 3 digit number be (a), (b) and (c).

This is why performing these steps always gets you to 1089.



STEP	Place Values Table			
	THOUSANDS (10 ³)	HUNDREDS (10 ²)	TENS (10 ¹)	ONES (10 ⁰)
1		a	b	c
(re-organise)		a-1	b-1	c
2		a-1	b-1	c
(re-organise)			+10	+10
3				
(re-organise)				
4		a-1	b-1+10	c+10
5		c	b	a
(subtraction)				
(result of subtraction)				
6		a-1-c	b-1+10-b = 9	c+10-a
(add the reverse)				
7		c+10-a	9	a-1-c
(result)				
8		(a-1-c) + (c+10-a) = 9	9+9=18 10 TENS + 8 TENS	(c+10-a) + (a-1-c) = 9
9				
(result)				
RESULT :	1	0	8	9