

Mind Reader Explanation

The mind reader is a simple mathematical concept. You should notice that every multiple of 9 (9, 18, 27, 36, 45, 54, 63, 72, 81) has the same symbol next to it. Here's the significance of that...

Let x = the first digit of any two digit number (tens place)

Let y = the second digit (ones place)

So, the value of this number is $10x + y$

The sum of the digits is $x + y$

When these are subtracted, we get: $(10x + y) - (x + y)$

Which yields $10x + y - x - y$

Or $9x$ – presto, we have a multiple of 9!! GUARANTEED!!

The reason they have a different symbol next to 0, 90, and 99 is because, although they are multiples of 9, you will never get them by using a two-digit number, assuming the first digit is not zero.

In fact, if you pick the number 01 through 09 (technically a two-digit number?) it can't "read your mind."