

you always have to carry why?

- Because if the first digit is smaller than the second, when you flip it around the top smaller digits end up ones than the bottom ones on the ones column.

- this also has ~~applies~~ Applies to 4 digit numbers and 2 digit numbers

you always have to carry the first one

middle number is always 9

$$\begin{array}{r} 6 \\ -4 \\ \hline 2 \end{array}$$

middle digit stays the same

digits always add up to

answer is always 1089 (with 3 digits)

- Can work with any 3 digit number if the first digit is larger than the second

you have to carry every time

$$\begin{array}{r} 7 \\ -1228 \\ \hline 8881 \end{array}$$

middle number is always 9

add up to 9 or a multiple of 9

Using some of the same digits (9, 8, 1, 0)

adds up to 9 (always)

$$\begin{array}{r} 2 \\ -1 \\ \hline 1 \end{array}$$

always have to carry

always 99