

I am not sure why this works, but there are a few patterns that I have noticed:

The middle digit stays the same

$$\begin{array}{r} 6 \ 13 \\ 745 \\ -547 \\ \hline 198 \\ +891 \\ \hline 1089 \end{array}$$

You always have to carry on the first column.

Always 9

These digits in each column always add up to 9 or a multiple of 9

Always 9

I am not sure whether this only works for 3-digit numbers, so I tried four digit numbers:

$$\begin{array}{r} 8 \ 6 \\ 9371 \\ -1739 \\ \hline 7632 \\ +2367 \\ \hline 9999 \end{array}$$

Still have to carry

Always add up to 9 or a multiple of 9

Always use digits 9, 1, 0, and 8.

Always 9999

I also gave it a go with a 2-digit number:

$\begin{array}{r} 45 \\ -37 \\ \hline 16 \\ +61 \\ \hline 77 \end{array}$	Always carries	$\begin{array}{r} 56 \\ -16 \\ \hline 40 \\ +54 \\ \hline 94 \end{array}$	Always carries
Multiple of 11		Multiple of 11	

In conclusion, ~~the~~ although I don't know exactly why this works, but there are always patterns, even when using a 4<sup>or 2</sup> digit number, even though the outcome is not the same.