Each of the different letters below stands for a different number.

\[
\begin{array}{c}
\text{+} \\
\text{TWO} \\
\text{+} \\
\text{TWO} \\
\hline \\
\text{FOUR}
\end{array}
\]

How many solutions can you find to this cryptarithm?
How can you be sure you have found them all?

Can you create other similar cryptarithms?
Here are some suggestions to start you off.

- \( \text{ONE} + \text{ONE} = \text{TWO} \)
- \( \text{ONE} + \text{TWO} = \text{THREE} \)
- \( \text{ONE} + \text{THREE} = \text{FOUR} \)
- \( \text{FOUR} + \text{FIVE} = \text{NINE} \)

Can you make a cryptarithm subtraction?

How can you tell at a glance that some will be impossible?