

The Problem

The following cryptic message is perhaps one of the most widely-known mathematical puzzles. The object is to determine the digits represented by the letters.



Strategies and Hints

1. Assign some values for the letters in the words “SEND” and “MORE.” Try to identify patterns.
2. Write down the basic facts where the addends are different and the sum is more than ten.
3. Keep track of which digits you have used.
4. Try this easier problem. It has more than one solution.

$$\begin{array}{r} \text{O N E} \\ + \text{S I X} \\ \hline 7 7 7 \end{array}$$