

Cats and dogs

What we are told:

- Each letter represents a digit (0 – 9).
- The letter 'O' is zero.

$$\begin{array}{r} \text{CAT} \\ + \text{DOG} \\ \hline \text{ROW} \end{array}$$

What to do:

1. Write out the sum opposite.
2. Work together to find out which digit each letter represents.
3. Make a list of the letters so that you can match digits to them.
4. When you have found a solution – check it works!
5. Use this solution to find a different one where both T and G are two different digits, so they have not just swapped!

Can you find more than 6 different solutions?

Challenge

Can you invent your own similar puzzle?
(This is harder than you'd think!)