

Cats and dogs

What we are told:

* Each letter represents a digit (0–9).
* The letter ‘O’ is zero.

What to do:

1. Write out this sum.
2. Work 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!
6. Can you find more than six different solutions?

Challenge

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