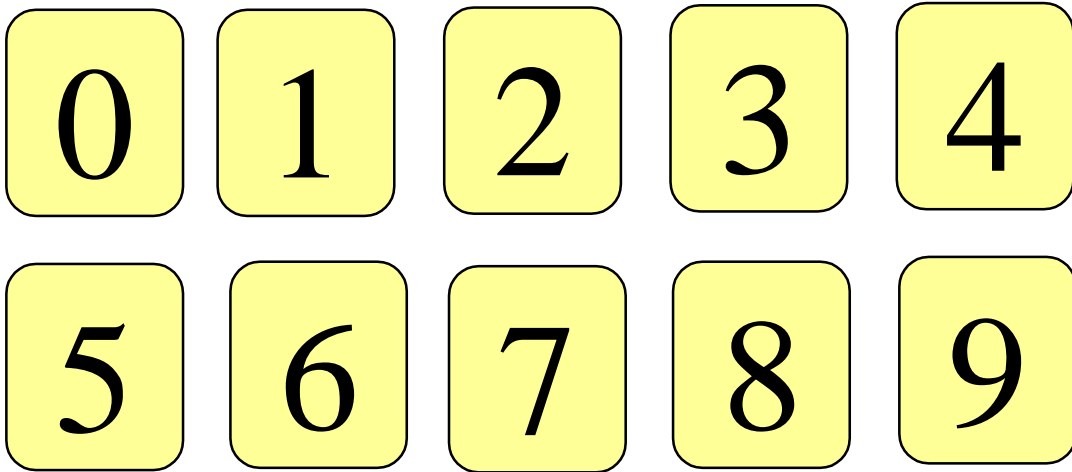




## Puzzle time

### Funky 15

For this puzzle it is a good idea to have a set of 0 to 9 cards. If you haven't got any don't worry - just jot down the numbers 0 to 9 on a piece of paper and cut them out, or use the numbers below.



**Use 3 cards to make a total of 15.**

Easy eh!

But what I want to know is:

**how many ways are there of making 15 by  
adding three cards?**

(Don't forget to use the nought card!)

Lots of thought  
needed for this one!



Find the answer on the next page.



## Puzzle time

### Funky 15 - answers

This puzzle might cause a lot of controversy. Remember - it was how many ways can you make 15 by adding 3 cards.



The most straightforward answer is **10**, believe it or not. But.... several different answers might also be considered correct.

Here's a good explanation of how 10 was reached:

"I worked this out by writing down all the combinations of 15 to start with (there were 64 of them). Then I sorted them all out by crossing off all the combinations that were repeated more than once. This leaves 10."

The combinations are: 069, 078, 159, 168, 249, 258, 267, 348, 357, 456.

All others (eg 654) are repeats of the above as  $6 + 5 + 4$  is exactly the same as  $4 + 5 + 6$ .

Funky eh!!

Now, you might have some answers where the 1 was used as a tens digit - eg  $10 + 5$ ,  $11 + 4$ ,  $12 + 3$ ,  $13 + 2$ ,  $14 + 1$  and  $15 + 0$ . Fine!!