

These challenges all involve using digit cards. Make your own from paper or print off the ones on the website. Read the challenge carefully so you know what you're doing. They don't involve large numbers but will help you think mathematically and develop your problem-solving skills.

Challenge 1

For this challenge you will need cards numbered 1-15.

I put down seven of them on the table in a row.



The numbers on the first two cards add to 15.

The numbers on the second and third cards add to 20.

The numbers on the third and fourth cards add to 23.

The numbers on the fourth and fifth cards add to 16.

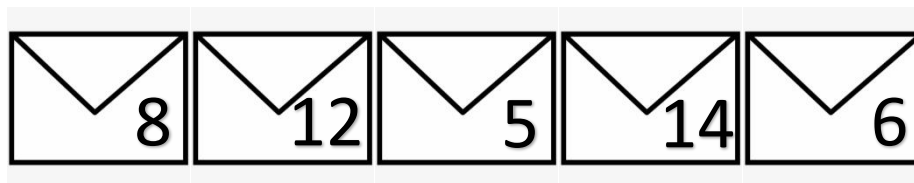
The numbers on the fifth and sixth cards add to 18.

The numbers on the sixth and seventh cards add to 21.

What are my cards? Can you find 3 different solutions?

Challenge 2

For this challenge you will need the digits 0-9. The ten cards are divided up between five envelopes so that there are two cards in each envelope. The sum (total) of the two numbers inside it is written on each envelope:



How many different solutions can you find?

Challenge 3

For this challenge you will need the digits 1-9. Can you arrange them in a 3 x 3 square so that each row and column add up to a prime number?

