

# **MATHS REPORT**

Sealed Solution

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# WHAT WAS THE PUZZLE?

The problem made you divide the numbers 0-9 between five envelopes so that two cards are in each envelope. The sum of the two numbers inside is written on the envelope. The question was: What numbers could be inside the eight envelope.

7

8

13

14

3

# WHAT DID WE DO?

To solve the puzzle we used a variety of methods in order including:

- Seek an exception
- Break it into parts
- Try all possibilities
- Eliminate possibilities
- Guess check and improve
- Make a list

These methods allowed us to find the maximum amount of solutions and be sure that we had found all of them as they provided a wide base of strategies to work off.

# WHAT DID WE FIND OUT?

We found out that there were three solutions:

- Eight and zero
- Seven and one
- Five and three

# **WERE THERE ANY NEW PUZZLES OR QUESTIONS?**

I wonder what would happen if there had to be three numbers in each envelope. I predict that this would cause a decrease in possible answers.