I started off just trying out a few numbers, like this: (I’ve coloured the boxes so it’s easier to talk about them)

|  |  |
| --- | --- |
| 8 | 4 |
| 9 | 1 |

 **84 + 91+ 89 + 41 > 100** (I didn’t even need to add, I knew because of 91 and 84, it was too big!)

I noticed the blue box was definitely too big. So then I started making it small, like this:

|  |  |
| --- | --- |
| 4 | 8 |
| 2 | 3 |

**48 + 82 + 23 + 42 > 100**

It was still too big. I noticed that blue, red and green should be small because they made the tens place.

I got really close:

|  |  |
| --- | --- |
| 1 | 3 |
| 4 | 6 |

**13 + 46 + 14 + 36 = 99**

and

|  |  |
| --- | --- |
| 1 | 3 |
| 4 | 7 |

**13 +47 + 14 + 37 = 101**

I tried lots after that but they were still too big or small.

Then I looked at the numbers that made the units, red, green and yellow. I noticed that the yellow was repeated twice. I thought I should find numbers for the units that add up to 10, because 100 has 0 in the units.

I started with 1 in the yellow box. That meant 1 + 1 + ? + ? should give me a multiple of 10.

So I tried 1 + 1 + 3 + 5 = 10

I knew the blue box should be small, so I tried this:

|  |  |
| --- | --- |
| 2 | 5 |
| 3 | 1 |

 **25 + 31 + 23 + 51 > 100**

and

|  |  |
| --- | --- |
| 3 | 6 |
| 2 | 1 |

**36 + 21 + 61 + 32 > 100**

I remembered the yellow box can be big, and the other need to be small, so I tried

|  |  |
| --- | --- |
| 2 | 1 |
| 3 | 8 |

**21 + 23 + 18 + 38 = 100! it worked!**

My mother asked me if I could find another solution.

I tried 9 and 6 in the yellow box, but they didn’t work. Then I tried 7 in the yellow box:

|  |  |
| --- | --- |
| 1 | 2 |
| 4 | 7 |

**12 + 47 + 27 +14 = 100 ! It worked again!**

I also noticed that the red and green box, it didn’t matter which way round they were.