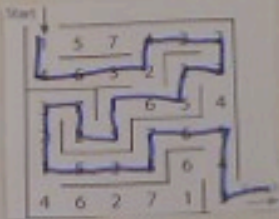**Lyneham Primary Year 4 Math Challenge Group**

Ruby: Managed a sum of 101 on first try. She then analysed her route and compared part of it with an alternative route, which gave a sum that was one less, so that the total was 100.
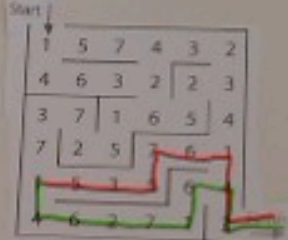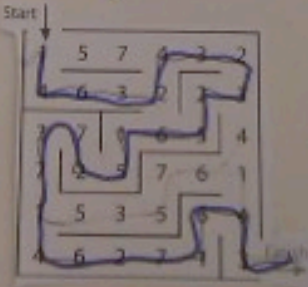
Ruby

Maze 100

first I started by trying to find the longest way around the maze witch was 5.

but that was 101 So I added up the green row and the red row.

the green row was 34 and the red row was 35 So I added up this way.

and it was 100! I Plused all the numbers.

Kristina. Got her solution by trial and error (not further specified), but did then observe the slight difference between the routes and the impact that made on the sum.

Kristina

Maze 100

My first answer was 97 after a couple tries I got 100.

All I did to get to one-hundred is changed the route that I took. But it did not work

on my 4th try I got one-hundred and this is the route I took

The difference between my 1st and 4th route is I didn't add 5+7=12 but 4+6+3+2=15.

Bilal

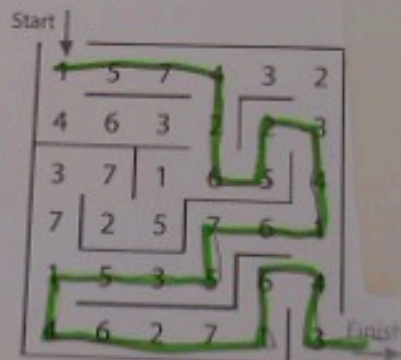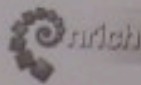Maze 100. by Bilal. M   15/8/14 Friday
Maze no.1 answer is.....
To get to 100 for maze one is this—
I tried to find a way to get to 100.
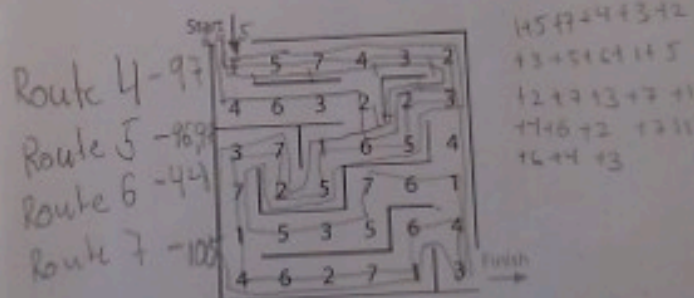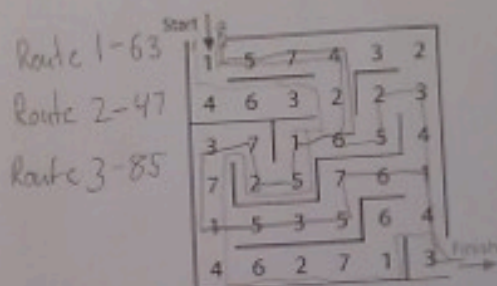Atlast I got it. This is what I did.
I used these numbers— 1,5,7,4,2,6,5,2
,6,5,2,3,4,1,6,7,5,3,5,1,4,6,2,7,1,6,4,3.

Bilal

Mila: Method of attempting to write down all different routes

I looked for different routes and went up to 7 routes till time was up. Route 1 - 63, Route 2 +7, Route 3 - 85, Route 4 - 97, Route 5 -16, Route 6 - 44, Route 7 - 105

Maze 100

Route 1 - 63
Route 2 - 47
Route 3 - 85

Route 4 - 97
Route 5 - 169
Route 6 - 44
Route 7 - 105

MILA

Tawhid: explained why his was the shortest route – any other routes were longer and increased the sum.

Time finding the shortest route   Tawhid

The shortest possible route is 57 because the route has the least numbers compared to the others, the numbers are ,1,5,7,4,3,2,3,4,1,4,3=37. (Even if the numbers on other routes are smaller they still add up to more because they have more numbers.)
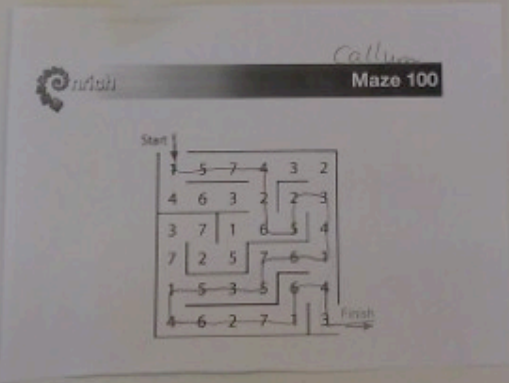
Callum identified the same shortest rout

Callum

The lowest number you can get from the 'puzzle 100' is 37. The numbers are: $1 + 5 + 7 + 4 + 3 + 2 + 3 + 4 + 1 + 4 + 3$

The highest number possible is 103. I'm going to tell you how to get to 100: $1 + 5 + 7 + 4 + 2 + 6 + 5 + 2 + 3 + 4 + 1 + 6 + 7 + 5 + 3 + 5 + 1 + 4 + 6 + 2 + 7 + 1 + 6 + 4 + 3$

Callum

Maze 100

Start

7	5	7	4	3	2
4	6	3	2	2	3
3	7	1	6	5	4
7	2	5	7	6	3
1	5	3	5	6	4
4	6	2	7	1	3

Finish

Another student Alex had a go at finding the longest route, but that proved harder.