



I am going to set out this investigation as I feel this will be easier for me to work out the problem. I will also draw pictures to work out calculations when they become trickier.

I will use this by using whiteboards to represent tables and whiteboard markers to represent the chocolate bars. I will use small figures to represent the children.

I have no predictions and I'm not too sure what's going to happen. I'm working in a pair.

The first child will go to table 3 because they will get 3 bars of chocolate instead of 2 bars or 1 bar on table 1 and 2.

Child 2 will go to table 2 as 2 bars of chocolate is larger than 1 bar and 1/2 of a bar. Therefore they will go to table 2 as they will get most chocolate.

Child 3 will go to table 3 because there is 1 1/2 bars of chocolate there and the 2 other tables only have 1.

2.10.18

Intelligent guessing and testing



Links to my other maths work:
Used my number bonds when I was trying to find all the combinations.
Used column addition when I was adding all my backadd numbers together.

How successful have I been in using this strategy? My view: My teacher's view:

LC: Can I use written column addition to solve an investigation?

LC: Can I use intelligent guessing and testing to solve an investigation?

The following sum shows the result of adding two numbers, one being the reverse (left to right, and right to left) of the other.

$$\begin{array}{r} 832 \\ + 238 \\ \hline 1070 \\ 1 \end{array}$$

1070 can be created by other 'backadd' numbers. How would you work out the other 'backadd' numbers! How many more are there?

My Maths

$$\begin{array}{r} 535 \\ + 535 \\ \hline 1070 \\ 1 \end{array}$$

$$\begin{array}{r} 634 \\ + 436 \\ \hline 1070 \\ 1 \end{array}$$

My Reasoning

I am going to try out the digits 5, 3, 5 because reversed it will be the same number. I already know that 1070 halved is 535.

I have found that this worked and will try out similar digits: 634 because I know that 600 + 400 is 1000. Then, 36 + 34 = 70.

4.10.18

I think that this will always work to make 1700 if the hundreds and ones columns are number bonds to ten. Also, the tens column has to be a 7.