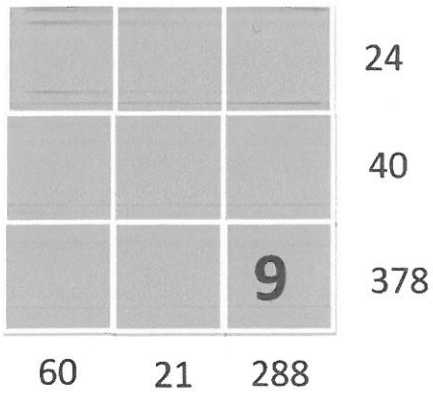
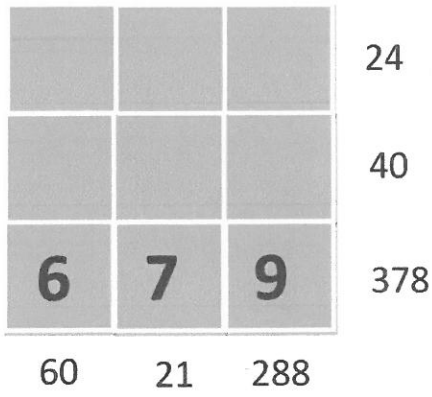
Gabriel's Problem

To start off with, in the first box I looked at the numbers 1-9 to see where a good starting point would be:

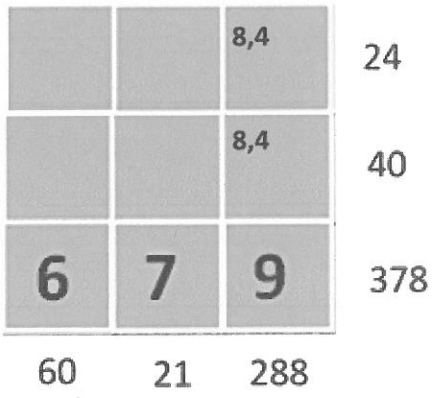
1. I thought that since 288 and 378 were the highest numbers they would need the highest number available which is 9 as well as they were both divisible by 9.



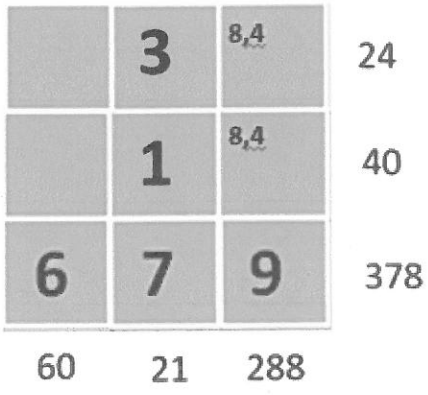
2. I then divided 378 by 9 which gave me 42 and so the only two numbers that could be multiplied to give 42 were 7 and 6. Because 60 isn't divisible by 7 and 21 isn't divisible by 6, I placed 6 in the column 60 and 7 in the column 21 like so:



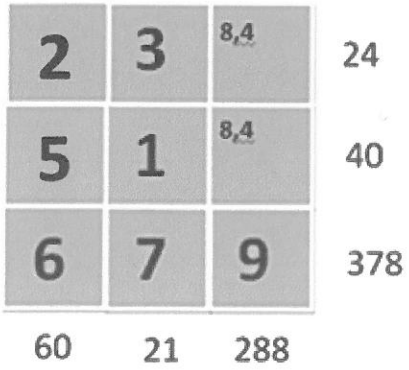
3. I then divided 288 by 9 which gave me 32 and because the only two numbers that could be multiplied to make 32 were 8 and 4 I placed them there. However, both numbers can divide into 24 and 40 so I couldn't place them down exactly but like this:



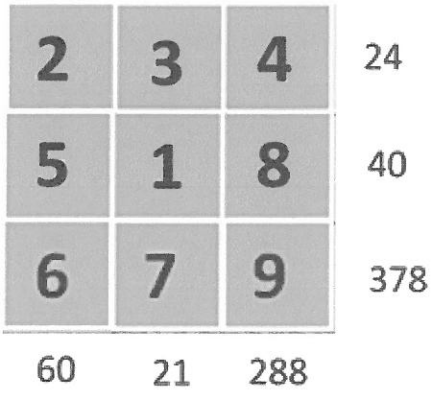
4. I then thought that the only three numbers possible for 21 were 7, 3 and 1 and because 7 was already placed, 3 or 1 could go into the 24 row. However in the 40 row, 40 isn't divisible by 3 so 3 and 1 were placed like this:



5. I then divided 60 by 6 which gave me 10. The only 2 numbers to make 10 were 2 and 5 and because 5 doesn't divide into 24 they had to be like this shown here:



6. And then finally 8 goes into the 40 row because 5 and 1 needs 8 to make 40 and 4 goes in the 24 row because 2 and 3 needs 4 to make 24.



If you go through each box logically you will eventually work it out however sometimes as the puzzles get harder you might need to try and do some trial and error but you should be able to do each one.