

Gabriels Problem

① I thought that because 378 and 288 are the highest numbers that would need the highest number which 9.

			24
			40
		9	378
60	21	288	

② Then I divided 378 by 9 which was 42, the only two numbers that can be times to make 42 is 6 and 7.

			24
			40
6	7	9	378
60	21	288	

③ I divided 288 by 9 which was 32 = 8,4 however both numbers are divisibly by 24 and 40 so I can not put them in separate boxes.

		8,4
		8,4
6	7	9

④ I then thought that the 7,3,1 are the only numbers possible for 24 and 7 is already there so 3 and 1 can go into the 24 row. 40 is divisible by 1 and 24 is 3.

	3	8,4
	1	8,4
6	7	9



⑤ I then divided 60 by 6 which is 10. The only numbers to make 10 are 5, 2 and 5 does not go into 24 so it is placed there.

2	3	8,4
5	1	8,4
6	7	9

⑥ Last 8 goes into the 40 row because 5 and 4 needs 8 to make 40 and 4 goes in the 24 row because 2 and 3 needs 4 to make 24.

2	3	4	24
5	1	8	40
6	7	9	378
60	21	288	