

3+		3
7+		3+
2		

3+ 1	2	3 3
7+ 3	1	3+ 2
2 2	3	1

(Easy proof.)

Statement	Reason
1) A3 = 3	1) Given
2) C1 = 2	2) Given
3) C3 = 1	3) 2 and 3 are already used in row and column.
4) B3 = 2	4) Last Cell in Column (LCIC)
5) C2 = 3	5) Last Cell in Row (LCIR)
6) B2 = 1	6) 2 and 3 are already used in row and column.
7) B1 = 3	7) LCIR
8) A1 = 1	8) LCIC
9) A2 = 2	9) LCIC or LCIR

3÷		12×
1	3	2
1—		
2	1	3
3		
3	2	1

A possible proof

Statement	Reason
1) C1 = 3	1) Given
2) A1/A2 or A2/A1 = 3	2) Given
3) A1 and A2 are 1,3 or 3,1	3) No other way to make 3 w/ division with our numbers (NOW WON)
4) A1=1	4) 3 is already used in Column #1
5) A2=3	5) See Steps #3, 4
6) A3=2	6) LCIR
7) B1= 2	7) LCIC
8) B2=1	8) 2 and 3 are already used in column and row.
9) B3=3	9) LCIR
10) C2=2	10) LCIC
11) C3=1	11) LCIC or LCIR

Note: $A3*B3*C3*C2=12$ (Given)

$A3*B3*C3 = 6$ (product of the cells in every column = $1*2*3=6$)

Therefore C2 = 2 (Division with the above statements.)