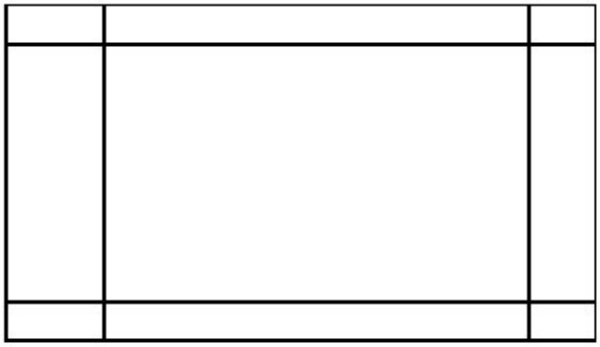

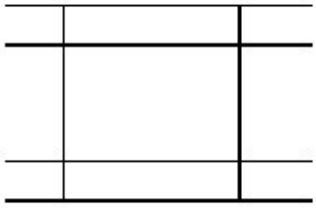

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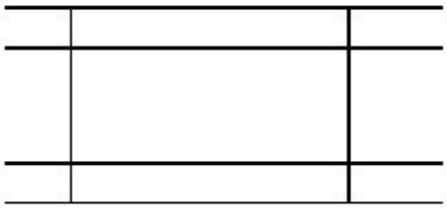
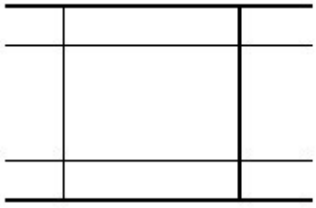
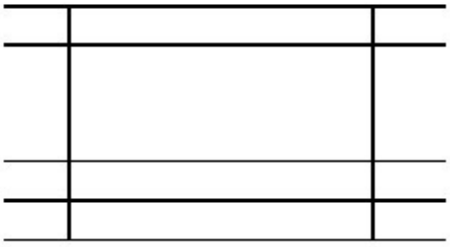
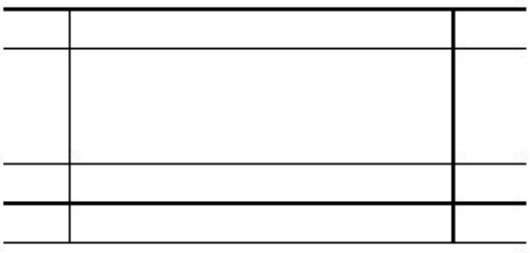
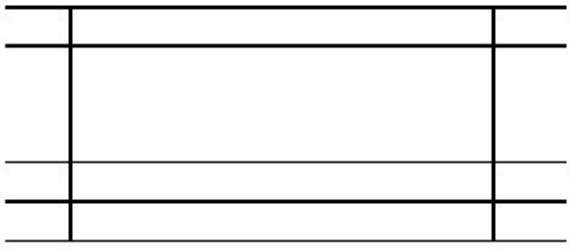




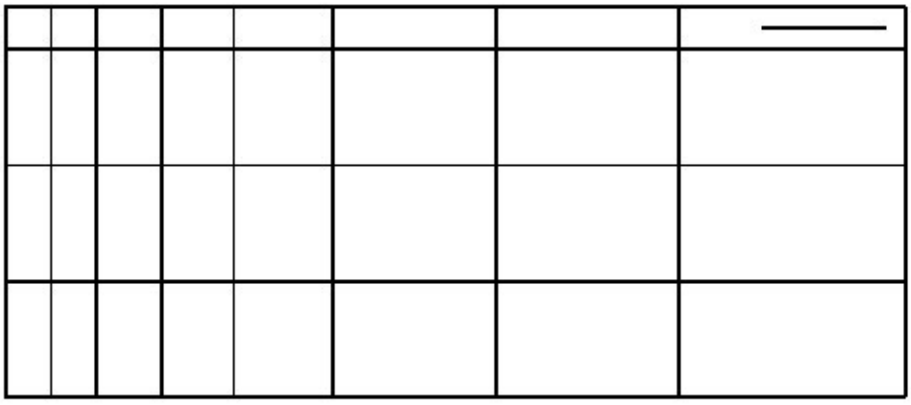




When information is available on the growth in the number of trips originating and terminating in each zone, we know that there will be different growth rates for trips in and out of each zone and consequently having two sets of growth factors for each zone. This implies that there are two constraints for that model and such a model is called doubly constrained growth factor model. One of the methods of solving such a model is given by Furness who introduced balancing factors a_i and b_j as follows:



3. Do not consider changes in travel cost.



(8.12)

$$\frac{1}{\Sigma B_j D_j f(c_{ij})}$$