PO91Q: Fundamentals in Quantitative Research Methods

Worksheet Week 7 - Solutions

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1 | Crosstabulations – Calculations by Hand

Expected Values:

	Mode of Transport			
Department	Bike	Bus	Car	Total
PAIS CIM	7.2 10.8	6.8	6	20
Total	18	17	15	50

- Calculate the χ^2 -value
 - (2.8867)
- How many degrees of freedom does this table have? Why?
 - -(2)
- Using the χ^2 Table, what is the p-value?
 - (0.236, or between 0.250 and 0.100)
- Are mode of transport and departmental association independent in the population?
 - (Yes)

2 | Applied Exercises in R (Core & Going Further)

See RScript in the Online Companion

